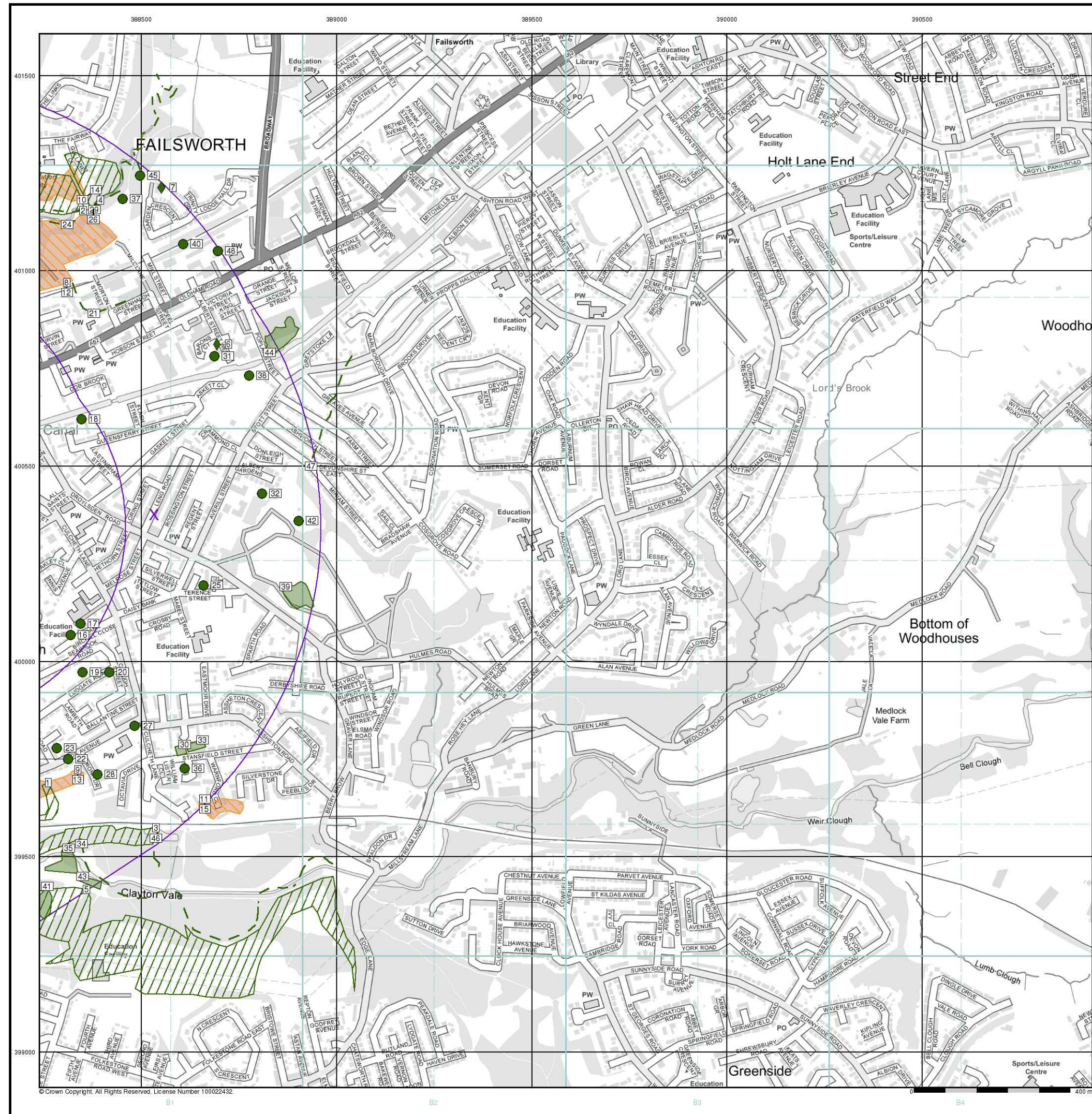




## Historical Land Use Information (1:10,000)

### General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Map ID
- Several of Type at Location

### Potentially Contaminative Industrial Uses (Past Land Uses - Mining)

|                                                               | Point | Line | Polygon |
|---------------------------------------------------------------|-------|------|---------|
| Air Shafts                                                    |       |      |         |
| Disturbed Ground                                              |       |      |         |
| General Quarrying                                             |       |      |         |
| Heap, unknown constituents                                    |       |      |         |
| Mineral Railway                                               |       |      |         |
| Mining and Quarrying General                                  |       |      |         |
| Mining of Coal & Lignite                                      |       |      |         |
| Quarrying of Sand and Clay, Operation of Sand and Gravel Pits |       |      |         |

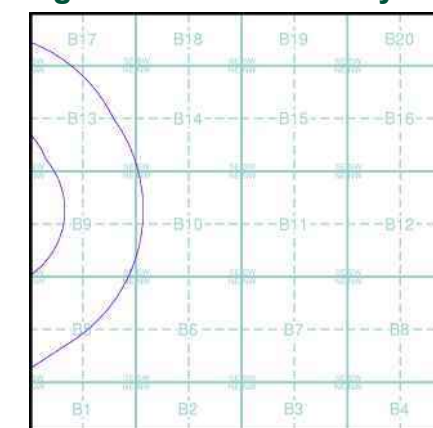
### Historical Land Use

|                                       | Point | Line | Polygon |
|---------------------------------------|-------|------|---------|
| Potentially Infilled Land (Non-Water) |       |      |         |
| Potentially Infilled Land (Water)     |       |      |         |
| Former Marsh                          |       |      |         |

### Mining Data

- Potential Mining Area
- BGS Recorded Mineral Site

### Mining and Ground Stability - Slice B



### Order Details

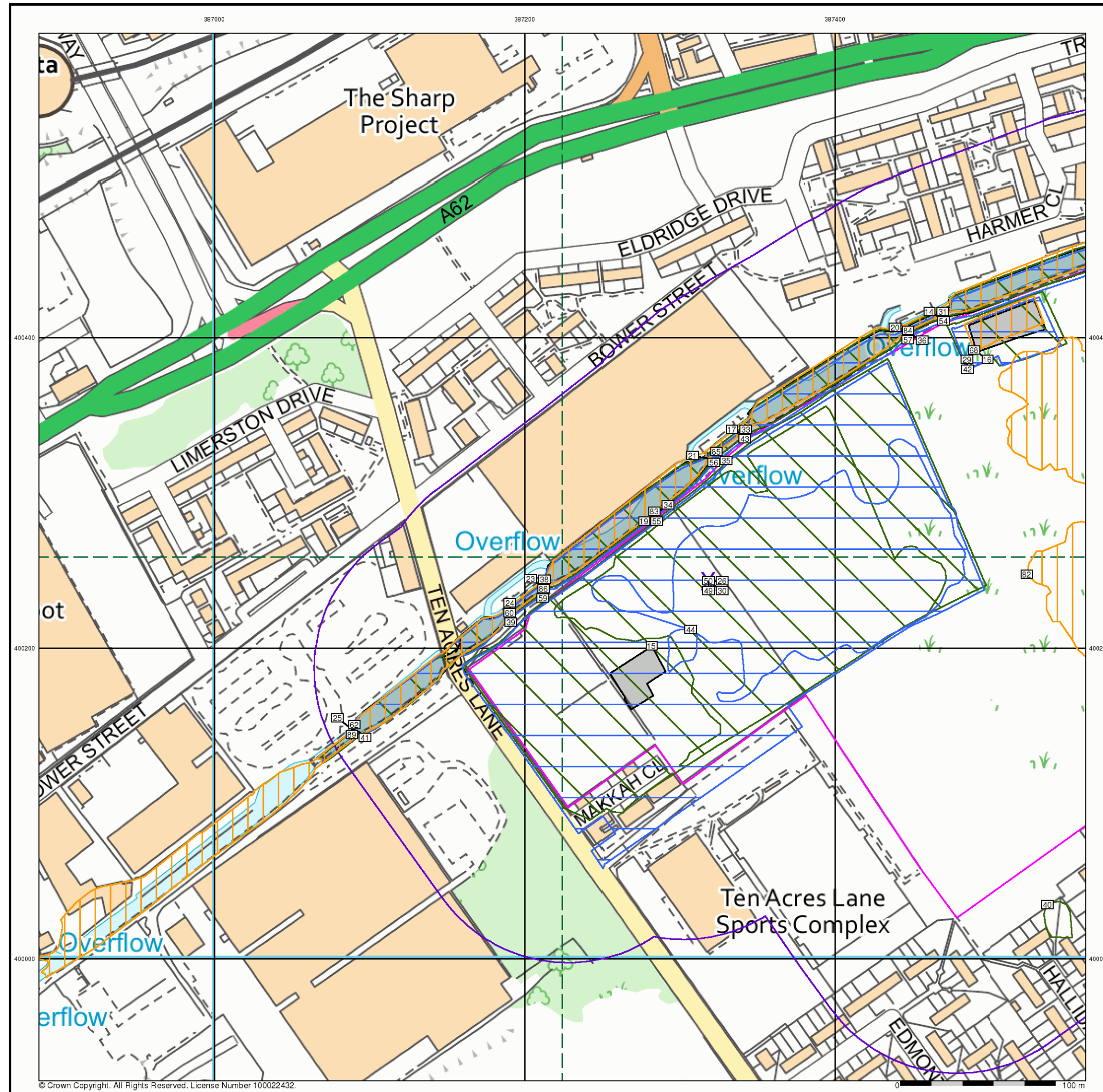
Order Number: 267713911\_1\_1  
Customer Ref: Ten Acres  
National Grid Reference: 388530, 400380  
Slice: B  
Site Area (Ha): 18.51  
Search Buffer (m): 1000

### Site Details

Site at 387600, 400310



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Web: www.envirocheck.co.uk



**General**

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Map ID
- Several of Type at Location

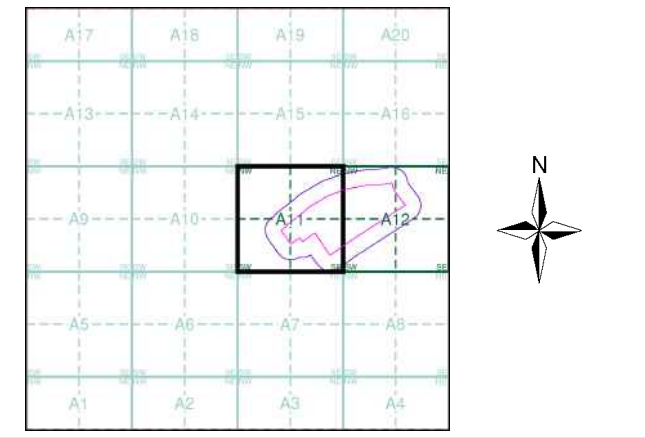
**Potentially Contaminative Industrial Uses (Extractive Industries Activity)**

|                                                 | Point | Line | Polygon |
|-------------------------------------------------|-------|------|---------|
| Extractive Industries Activity from 1855 - 1909 |       |      |         |
| Extractive Industries Activity from 1893 - 1915 |       |      |         |
| Extractive Industries Activity from 1906 - 1937 |       |      |         |
| Extractive Industries Activity from 1924 - 1949 |       |      |         |
| Extractive Industries Activity from 1950 - 1980 |       |      |         |

**Subterranean Features**

|                       | Point | Line | Polygon |
|-----------------------|-------|------|---------|
| Subterranean Features |       |      |         |

### Mining and Ground Stability - Segment A11



**Order Details**

|                          |                |
|--------------------------|----------------|
| Order Number:            | 267713911_1_1  |
| Customer Ref:            | Ten Acres      |
| National Grid Reference: | 387320, 400240 |
| Slice:                   | A              |
| Site Area (Ha):          | 18.51          |
| Plot Buffer (m):         | 100            |

**Site Details**

Site at 387600, 400310



## Geology 1:50,000 Maps Legends

### Artificial Ground and Landslip

| Map Colour | Lex Code | Rock Name                 | Rock Type                  | Min and Max Age           |
|------------|----------|---------------------------|----------------------------|---------------------------|
|            | WMGR     | Infilled Ground           | Artificial Deposit         | Not Supplied - Holocene   |
|            | MGR      | Made Ground (Undivided)   | Artificial Deposit         | Not Supplied - Holocene   |
|            | WGR      | Worked Ground (Undivided) | Void                       | Not Supplied - Holocene   |
|            | SLIP     | Landslide Deposit         | Unknown/Unclassified Entry | Not Supplied - Quaternary |

### Superficial Geology

| Map Colour | Lex Code | Rock Name                               | Rock Type                   | Min and Max Age          |
|------------|----------|-----------------------------------------|-----------------------------|--------------------------|
|            | ALV      | Alluvium                                | Clay, Silt, Sand and Gravel | Not Supplied - Holocene  |
|            | TILLD    | Till, Devensian                         | Diamicton                   | Not Supplied - Devensian |
|            | GFDUD    | Glaciofluvial Deposits, Devensian       | Sand and Gravel             | Not Supplied - Devensian |
|            | GFSD     | Glaciofluvial Sheet Deposits, Devensian | Sand and Gravel             | Not Supplied - Devensian |

### Bedrock and Faults

| Map Colour | Lex Code | Rock Name                             | Rock Type                         | Min and Max Age            |
|------------|----------|---------------------------------------|-----------------------------------|----------------------------|
|            | CHES     | Chester Formation                     | Sandstone                         | Not Supplied - Olenekian   |
|            | MM       | Manchester Marls Formation            | Mudstone                          | Not Supplied - GUADALUPIAN |
|            | CS       | Collyhurst Sandstone Formation        | Sandstone                         | Not Supplied - Cisuralian  |
|            | HTS      | Holt Town Sandstone Bed               | Sandstone                         | Not Supplied - Westphalian |
|            | HA       | Halesowen Formation                   | Mudstone, Siltstone and Sandstone | Not Supplied - Westphalian |
|            | GML      | Great Mine Limestone                  | Limestone                         | Not Supplied - Westphalian |
|            | NHSS     | Newton Heath Sandstone                | Sandstone                         | Not Supplied - Westphalian |
|            | PUCM     | Pennine Upper Coal Measures Formation | Mudstone, Siltstone and Sandstone | Not Supplied - Westphalian |
|            | OPS      | Openshaw Sandstone                    | Sandstone                         | Not Supplied - Westphalian |

| Map Colour | Lex Code | Rock Name                              | Rock Type                         | Min and Max Age            |
|------------|----------|----------------------------------------|-----------------------------------|----------------------------|
|            | WDR      | Worsley Delf Rock                      | Sandstone                         | Not Supplied - Westphalian |
|            | PMCM     | Pennine Middle Coal Measures Formation | Mudstone, Siltstone and Sandstone | Not Supplied - Westphalian |
|            | ETM      | Etruria Formation                      | Sandstone and Mudstone            | Not Supplied - Westphalian |
|            |          | Faults                                 |                                   |                            |
|            |          | Rock Segments                          |                                   |                            |



### Geology 1:50,000 Maps

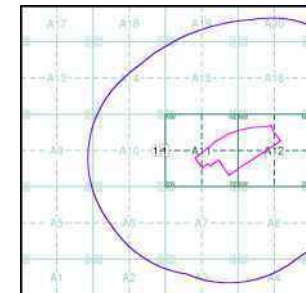
This report contains geological map extracts taken from the BGS Digital Geological map of Great Britain at 1:50,000 scale and is designed for users carrying out preliminary site assessments who require geological maps for the area around the site. This mapping may be more up to date than previously published paper maps.

The various geological layers - artificial and landslip deposits, superficial geology and solid (bedrock) geology are displayed in separate maps, but superimposed on the final 'Combined Surface Geology' map. All map legends feature on this page. Not all layers have complete nationwide coverage, so availability of data for relevant map sheets is indicated below.

### Geology 1:50,000 Maps Coverage

Map ID: 1  
Map Sheet No: 085  
Map Name: Manchester  
Map Date: 2010  
Bedrock Geology: Available  
Superficial Geology: Not Available  
Artificial Geology: Not Available  
Faults: Not Supplied  
Landslip: Not Available  
Rock Segments: Not Supplied

### Geology 1:50,000 Maps - Slice A



### Order Details:

Order Number: 267713911\_1\_1  
Customer Reference: Ten Acres  
National Grid Reference: 387320, 400240  
Slice: A  
Site Area (Ha): 18.51  
Search Buffer (m): 1000

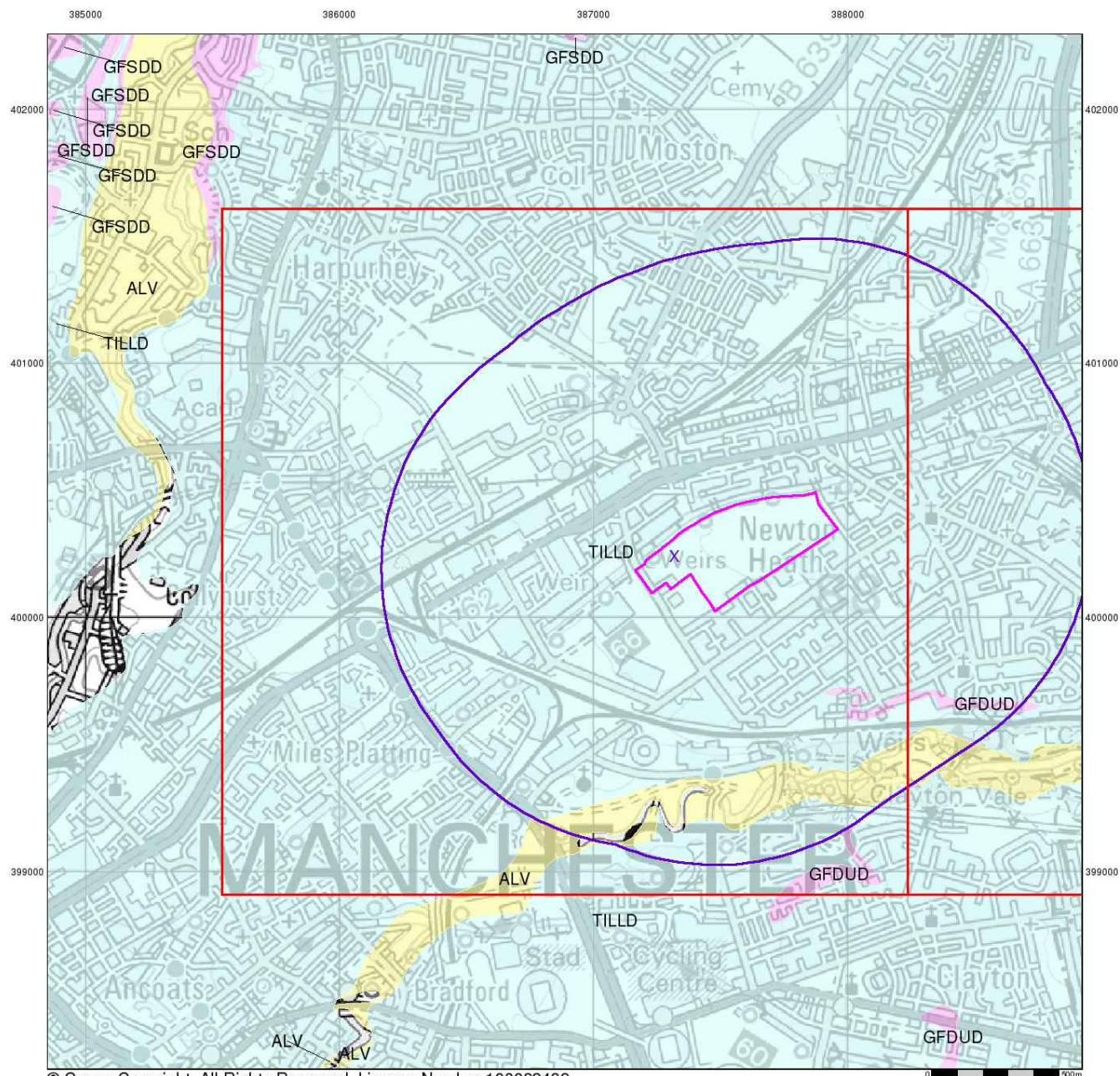
### Site Details:

Site at 387600, 400310

**Landmark**  
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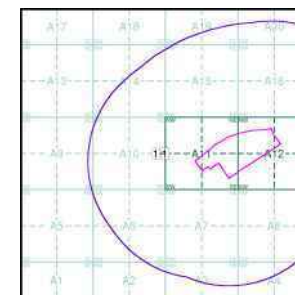
### Superficial Geology

Superficial Deposits are the youngest geological deposits formed during the most recent period of geological time, the Quaternary, which extends back about 1.8 million years from the present.

They rest on older deposits or rocks referred to as Bedrock. This dataset contains Superficial deposits that are of natural origin and 'in place'. Other superficial strata may be held in the Mass Movement dataset where they have been moved, or in the Artificial Ground dataset where they are of man-made origin.

Most of these Superficial deposits are unconsolidated sediments such as gravel, sand, silt and clay, and onshore they form relatively thin, often discontinuous patches or larger spreads.

### Superficial Geology Map - Slice A



### Order Details:

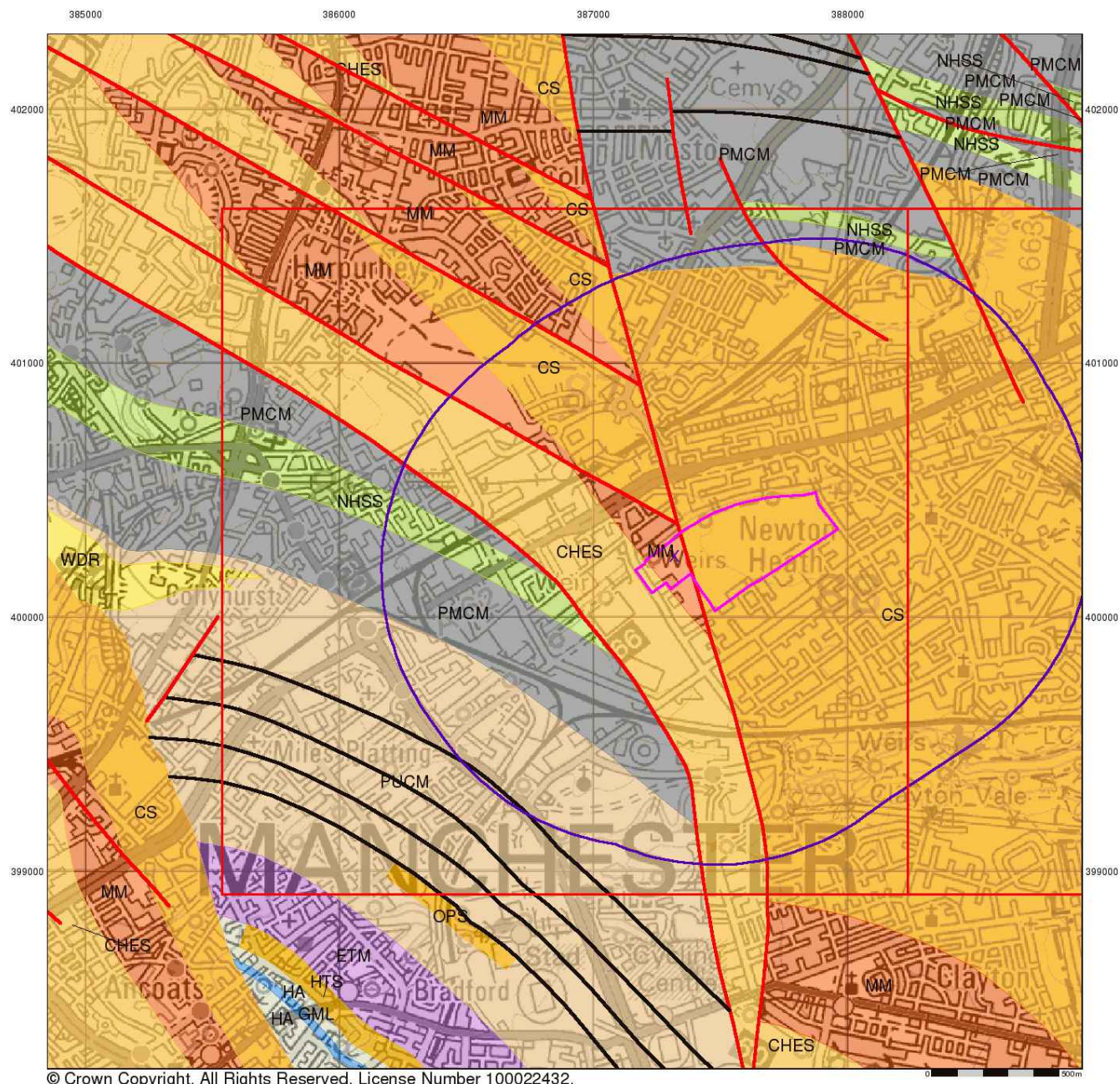
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 Customer Reference: Ten Acres  
 National Grid Reference: 387320, 400240  
 Slice: A  
 Site Area (Ha): 18.51  
 Search Buffer (m): 1000

### Site Details:

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### Bedrock and Faults

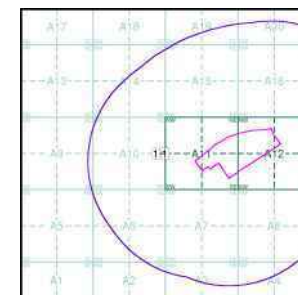
Bedrock geology is a term used for the main mass of rocks forming the Earth and are present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

The bedrock has formed over vast lengths of geological time ranging from ancient and highly altered rocks of the Proterozoic, some 2500 million years ago, or older, up to the relatively young Pliocene, 1.8 million years ago.

The bedrock geology includes many lithologies, often classified into three types based on origin: igneous, metamorphic and sedimentary.

The BGS Faults and Rock Segments dataset includes geological faults (e.g. normal, thrust), and thin beds mapped as lines (e.g. coal seam, gypsum bed). Some of these are linked to other particular 1:50,000 Geology datasets, for example, coal seams are part of the bedrock sequence, most faults and mineral veins primarily affect the bedrock but cut across the strata and post date its deposition.

### Bedrock and Faults Map - Slice A



### Order Details:

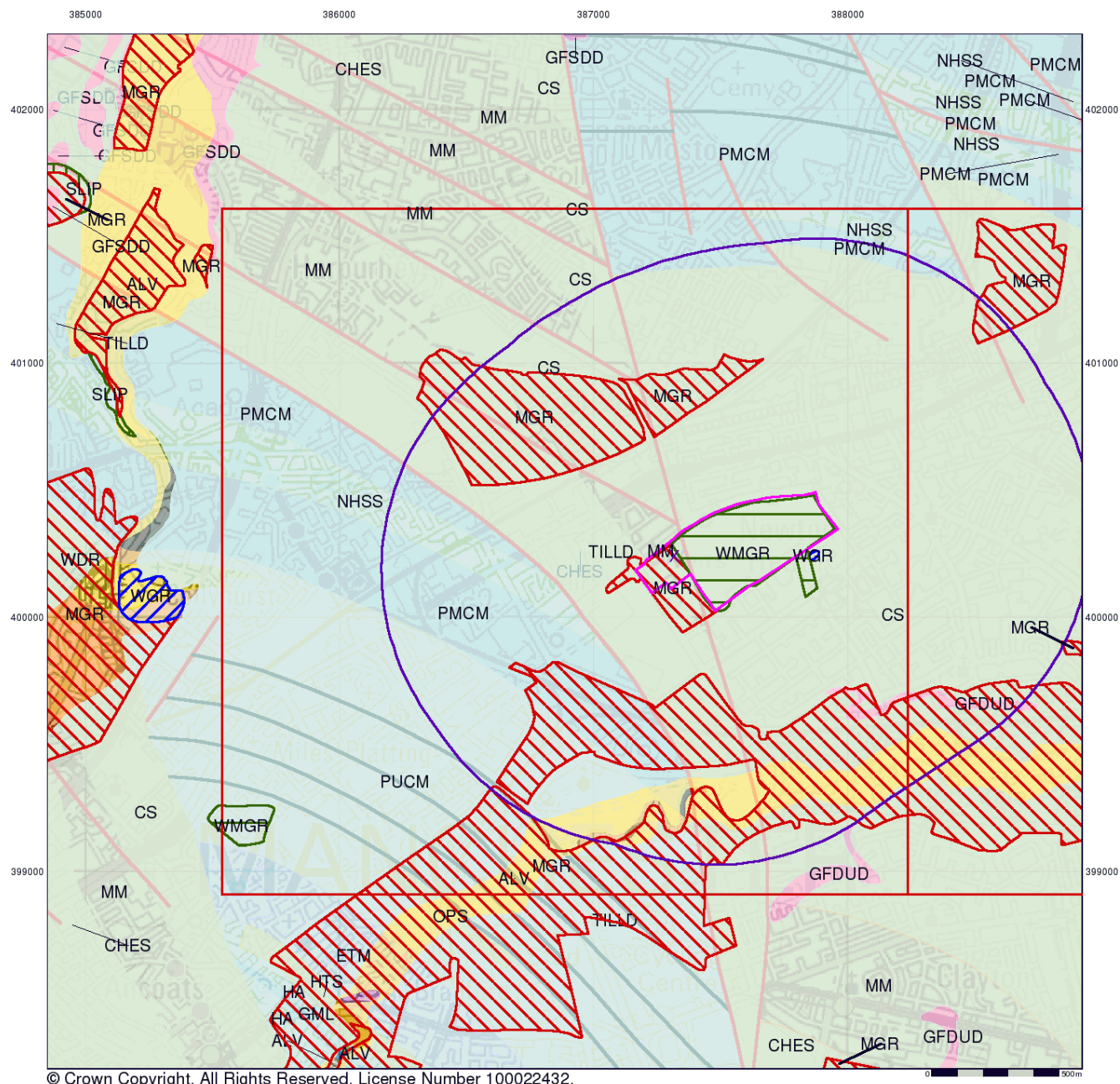
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|--------------------------|----------------|
| Order Number:            | 267713911_1_1  |
| Customer Reference:      | Ten Acres      |
| National Grid Reference: | 387320, 400240 |
| Slice:                   | A              |
| Site Area (Ha):          | 18.51          |
| Search Buffer (m):       | 1000           |

### Site Details:

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### Combined Surface Geology

The Combined Surface Geology map combines all the previous maps into one combined geological overview of your site.

Please consult the legends to the previous maps to interpret the Combined "Surface Geology" map.

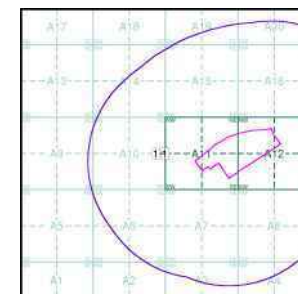
### Additional Information

More information on 1:50,000 Geological mapping and explanations of rock classifications can be found on the BGS website. Using the LEX Codes in this report, further descriptions of rock types can be obtained by interrogating the 'BGS Lexicon of Named Rock Units'. This database can be accessed by following the 'Information and Data' link on the BGS website.

### Contact

British Geological Survey  
Kingsley Dunham Centre  
Keyworth  
Nottingham  
NG12 5GG  
Telephone: 0115 936 3143  
Fax: 0115 936 3276  
email: [enquiries@bgs.ac.uk](mailto:enquiries@bgs.ac.uk)  
website: [www.bgs.ac.uk](http://www.bgs.ac.uk)

### Combined Geology Map - Slice A



### Order Details:

|                          |                |
|--------------------------|----------------|
| Order Number:            | 267713911_1_1  |
| Customer Reference:      | Ten Acres      |
| National Grid Reference: | 387320, 400240 |
| Slice:                   | A              |
| Site Area (Ha):          | 18.51          |
| Search Buffer (m):       | 1000           |

### Site Details:

Site at 387600, 400310



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Web: [www.envirocheck.co.uk](http://www.envirocheck.co.uk)

## Geology 1:50,000 Maps Legends

### Artificial Ground and Landslip

| Map Colour | Lex Code | Rock Name                 | Rock Type                  | Min and Max Age           |
|------------|----------|---------------------------|----------------------------|---------------------------|
|            | WMGR     | Infilled Ground           | Artificial Deposit         | Not Supplied - Holocene   |
|            | WGR      | Worked Ground (Undivided) | Void                       | Not Supplied - Holocene   |
|            | MGR      | Made Ground (Undivided)   | Artificial Deposit         | Not Supplied - Holocene   |
|            | SLIP     | Landslide Deposit         | Unknown/Unclassified Entry | Not Supplied - Quaternary |

### Superficial Geology

| Map Colour | Lex Code | Rock Name                         | Rock Type                   | Min and Max Age           |
|------------|----------|-----------------------------------|-----------------------------|---------------------------|
|            | ALV      | Alluvium                          | Clay, Silt, Sand and Gravel | Not Supplied - Holocene   |
|            | TILLD    | Till, Devensian                   | Diamicton                   | Not Supplied - Devensian  |
|            | GFDUD    | Glaciofluvial Deposits, Devensian | Sand and Gravel             | Not Supplied - Devensian  |
|            | PEAT     | Peat                              | Peat                        | Not Supplied - Quaternary |

### Bedrock and Faults

| Map Colour | Lex Code | Rock Name                              | Rock Type                         | Min and Max Age            |
|------------|----------|----------------------------------------|-----------------------------------|----------------------------|
|            | CHES     | Chester Formation                      | Sandstone                         | Not Supplied - Olenekian   |
|            | MM       | Manchester Marls Formation             | Mudstone                          | Not Supplied - GUADALUPIAN |
|            | CS       | Collyhurst Sandstone Formation         | Sandstone                         | Not Supplied - Cisuralian  |
|            | PUCM     | Pennine Upper Coal Measures Formation  | Mudstone, Siltstone and Sandstone | Not Supplied - Westphalian |
|            | NHSS     | Newton Heath Sandstone                 | Sandstone                         | Not Supplied - Westphalian |
|            | WDR      | Worsley Delf Rock                      | Sandstone                         | Not Supplied - Westphalian |
|            | OPS      | Openshaw Sandstone                     | Sandstone                         | Not Supplied - Westphalian |
|            | PMCM     | Pennine Middle Coal Measures Formation | Mudstone, Siltstone and Sandstone | Not Supplied - Westphalian |
|            | ETM      | Etruria Formation                      | Sandstone and Mudstone            | Not Supplied - Westphalian |

| Map Colour | Lex Code | Rock Name     | Rock Type | Min and Max Age |
|------------|----------|---------------|-----------|-----------------|
|            |          | Faults        |           |                 |
|            |          | Rock Segments |           |                 |



### Geology 1:50,000 Maps

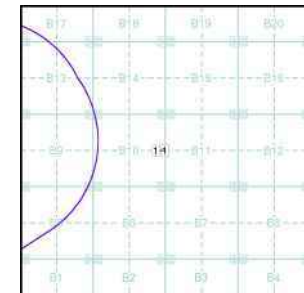
This report contains geological map extracts taken from the BGS Digital Geological map of Great Britain at 1:50,000 scale and is designed for users carrying out preliminary site assessments who require geological maps for the area around the site. This mapping may be more up to date than previously published paper maps.

The various geological layers - artificial and landslip deposits, superficial geology and solid (bedrock) geology are displayed in separate maps, but superimposed on the final 'Combined Surface Geology' map. All map legends feature on this page. Not all layers have complete nationwide coverage, so availability of data for relevant map sheets is indicated below.

### Geology 1:50,000 Maps Coverage

|                      |               |
|----------------------|---------------|
| Map ID:              | 1             |
| Map Sheet No:        | 085           |
| Map Name:            | Manchester    |
| Map Date:            | 2010          |
| Bedrock Geology:     | Available     |
| Superficial Geology: | Not Available |
| Artificial Geology:  | Not Available |
| Faults:              | Not Supplied  |
| Landslip:            | Not Available |
| Rock Segments:       | Not Supplied  |

### Geology 1:50,000 Maps - Slice B

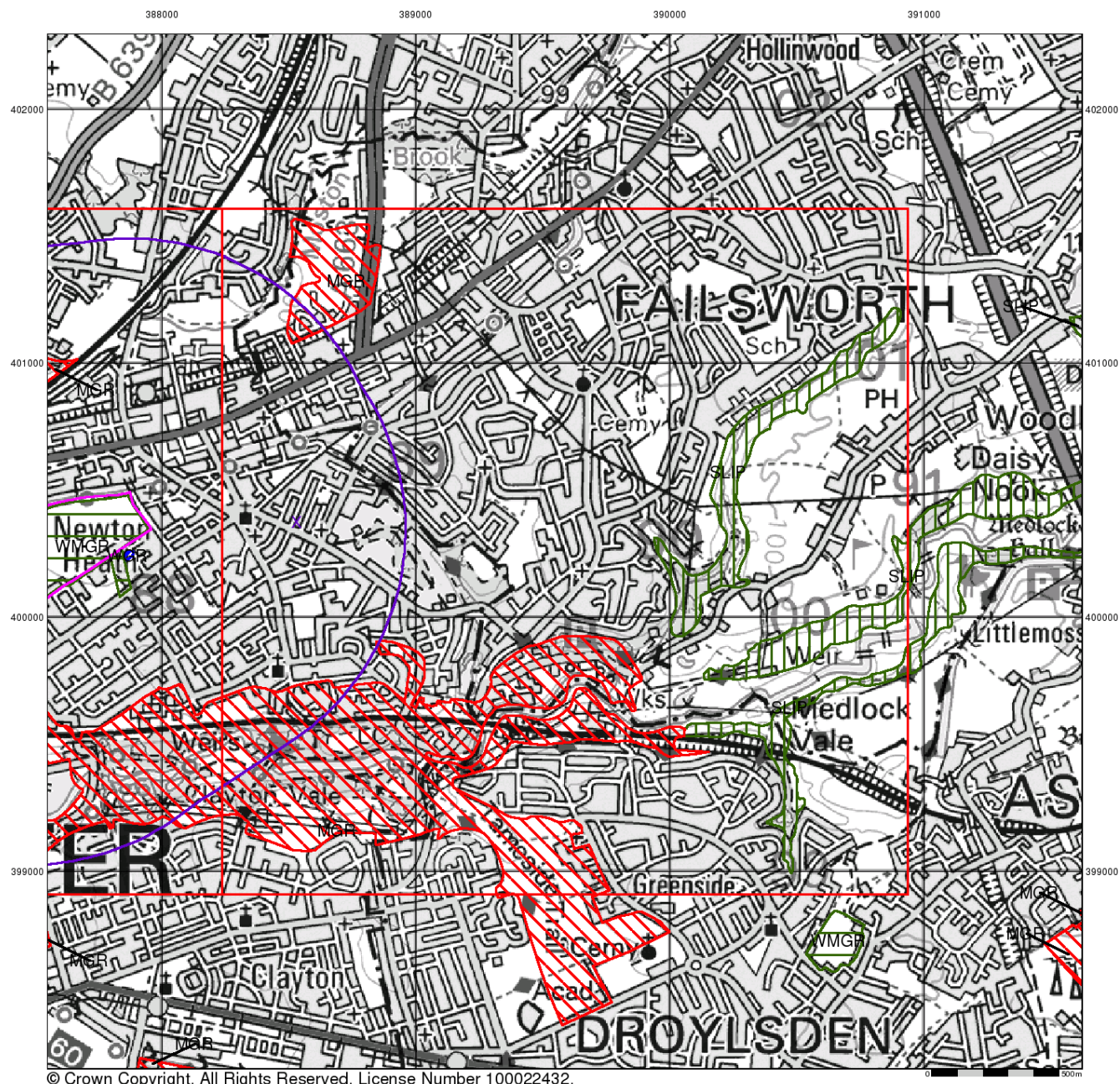


### Order Details:

|                          |                |
|--------------------------|----------------|
| Order Number:            | 267713911_1_1  |
| Customer Reference:      | Ten Acres      |
| National Grid Reference: | 388530, 400380 |
| Slice:                   | B              |
| Site Area (Ha):          | 18.51          |
| Search Buffer (m):       | 1000           |

### Site Details:

Site at 387600, 400310



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### Artificial Ground and Landslip

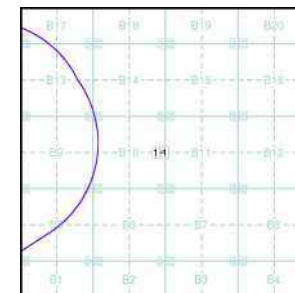
Artificial ground is a term used by BGS for those areas where the ground surface has been significantly modified by human activity. Information about previously developed ground is especially important, as it is often associated with potentially contaminated material, unpredictable engineering conditions and unstable ground.

Artificial ground includes:

- Made ground - man-made deposits such as embankments and spoil heaps on the natural ground surface.
- Worked ground - areas where the ground has been cut away such as quarries and road cuttings.
- Infilled ground - areas where the ground has been cut away then wholly or partially backfilled.
- Landscaped ground - areas where the surface has been reshaped.
- Disturbed ground - areas of ill-defined shallow or near surface mineral workings where it is impracticable to map made and worked ground separately.

Mass movement (landslip) deposits on BGS geological maps are primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground. The dataset also includes foundered strata, where the ground has collapsed due to subsidence.

### Artificial Ground and Landslip Map - Slice B



### Order Details:

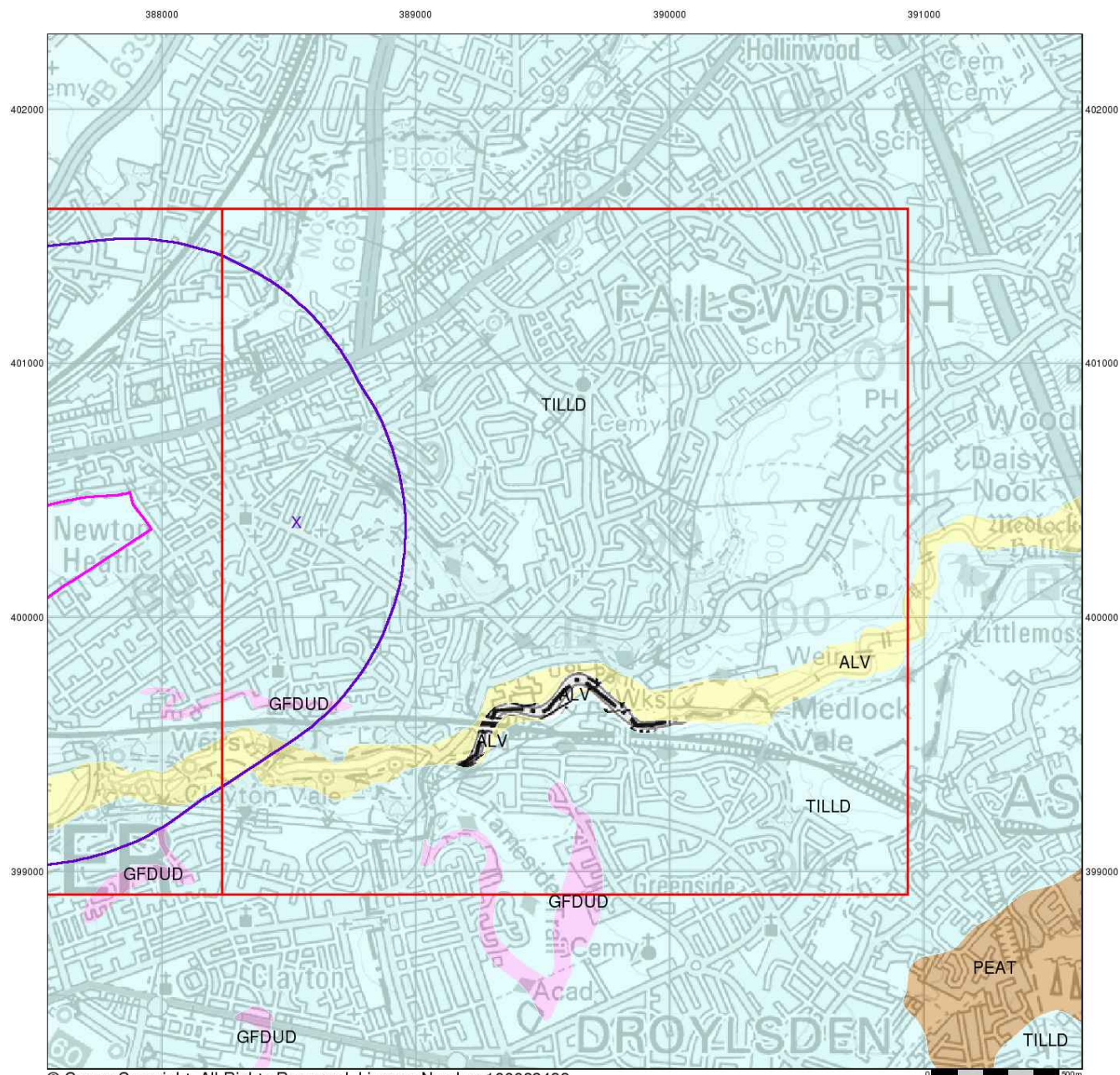
Order Number: 267713911\_1\_1  
 Customer Reference: Ten Acres  
 National Grid Reference: 388530, 400380  
 Slice: B  
 Site Area (Ha): 18.51  
 Search Buffer (m): 1000

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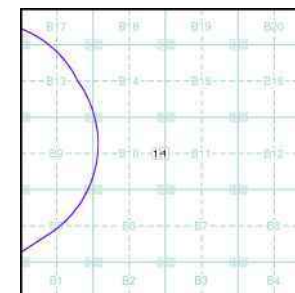
### Superficial Geology

Superficial Deposits are the youngest geological deposits formed during the most recent period of geological time, the Quaternary, which extends back about 1.8 million years from the present.

They rest on older deposits or rocks referred to as Bedrock. This dataset contains Superficial deposits that are of natural origin and 'in place'. Other superficial strata may be held in the Mass Movement dataset where they have been moved, or in the Artificial Ground dataset where they are of man-made origin.

Most of these Superficial deposits are unconsolidated sediments such as gravel, sand, silt and clay, and onshore they form relatively thin, often discontinuous patches or larger spreads.

### Superficial Geology Map - Slice B



### Order Details:

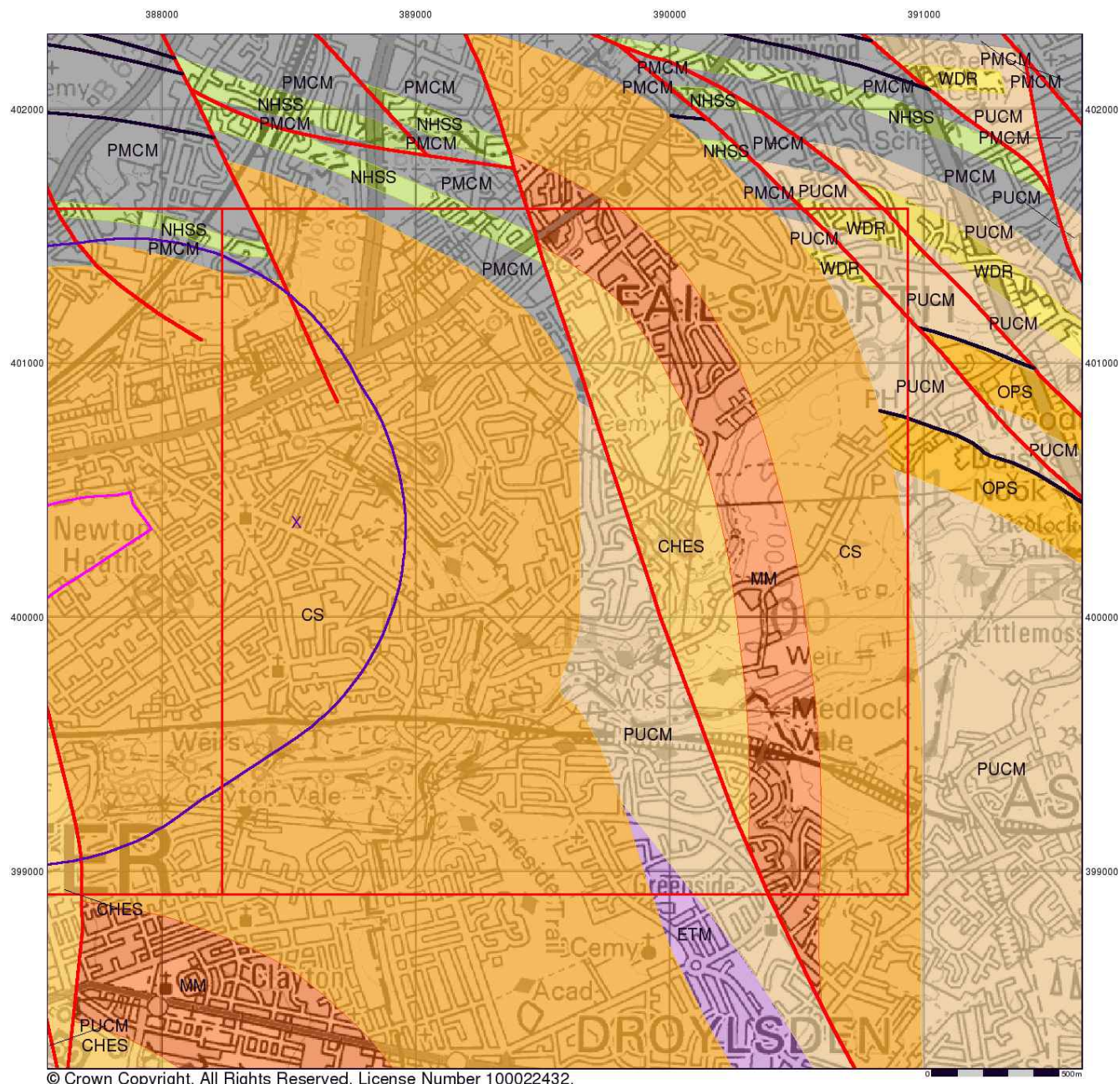
Order Number: 267713911\_1\_1  
 Customer Reference: Ten Acres  
 National Grid Reference: 388530, 400380  
 Slice: B  
 Site Area (Ha): 18.51  
 Search Buffer (m): 1000

### Site Details:

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## Bedrock and Faults

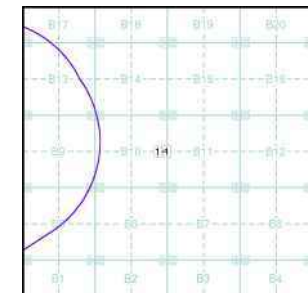
Bedrock geology is a term used for the main mass of rocks forming the Earth and are present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

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The bedrock geology includes many lithologies, often classified into three types based on origin: igneous, metamorphic and sedimentary.

The BGS Faults and Rock Segments dataset includes geological faults (e.g. normal, thrust), and thin beds mapped as lines (e.g. coal seam, gypsum bed). Some of these are linked to other particular 1:50,000 Geology datasets, for example, coal seams are part of the bedrock sequence, most faults and mineral veins primarily affect the bedrock but cut across the strata and post date its deposition.

## Bedrock and Faults Map - Slice B



## Order Details:

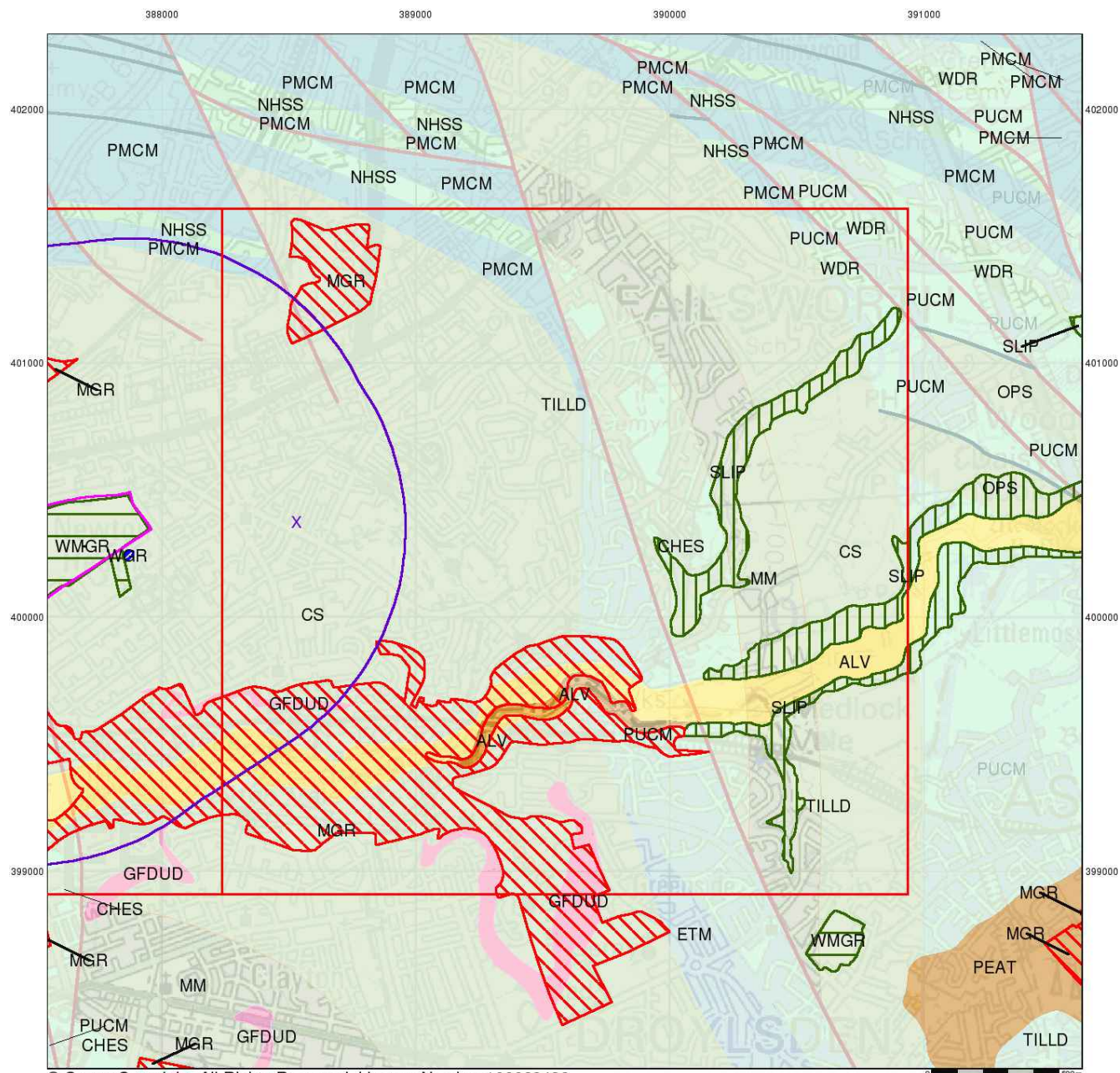
Order Number: 267713911\_1\_1  
 Customer Reference: Ten Acres  
 National Grid Reference: 388530, 400380  
 Slice: B  
 Site Area (Ha): 18.51  
 Search Buffer (m): 1000

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### Combined Surface Geology

The Combined Surface Geology map combines all the previous maps into one combined geological overview of your site.

Please consult the legends to the previous maps to interpret the Combined "Surface Geology" map.

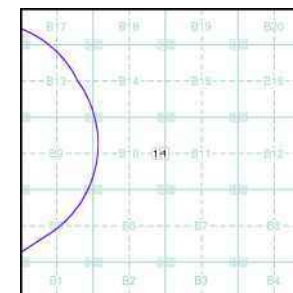
### Additional Information

More information on 1:50,000 Geological mapping and explanations of rock classifications can be found on the BGS website. Using the LEX Codes in this report, further descriptions of rock types can be obtained by interrogating the 'BGS Lexicon of Named Rock Units'. This database can be accessed by following the 'Information and Data' link on the BGS website.

### Contact

British Geological Survey  
Kingsley Dunham Centre  
Keyworth  
Nottingham  
NG12 5GG  
Telephone: 0115 936 3143  
Fax: 0115 936 3276  
email: [enquiries@bgs.ac.uk](mailto:enquiries@bgs.ac.uk)  
website: [www.bgs.ac.uk](http://www.bgs.ac.uk)

### Combined Geology Map - Slice B



### Order Details:

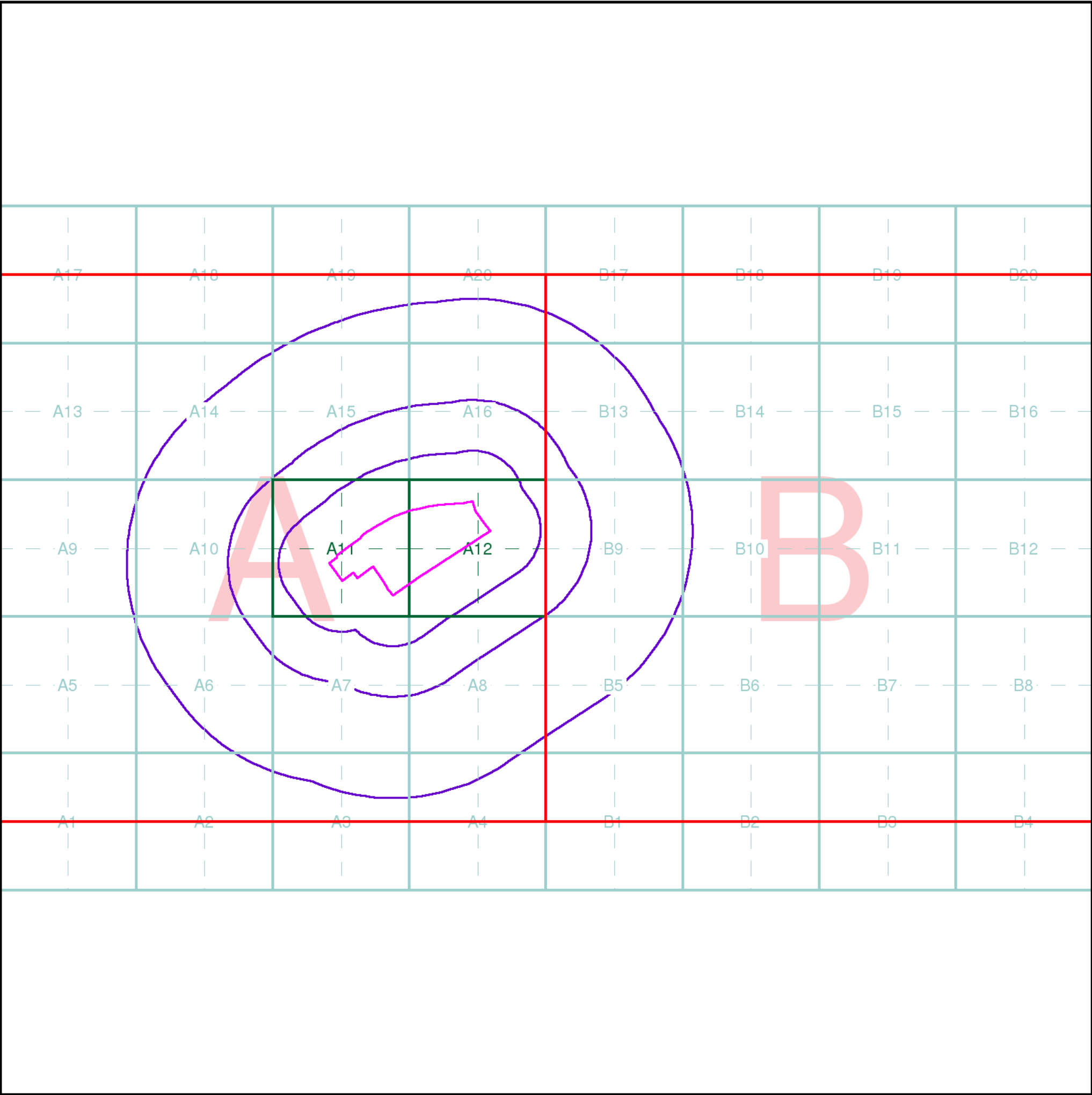
Order Number: 267713911\_1\_1  
Customer Reference: Ten Acres  
National Grid Reference: 388530, 400380  
Slice: B  
Site Area (Ha): 18.51  
Search Buffer (m): 1000

### Site Details:

Site at 387600, 400310



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### Index Map

For ease of identification, your site and buffer have been split into Slices, Segments and Quadrants. These are illustrated on the Index Map opposite and explained further below.

#### Slice

Each slice represents a 1:10,000 plot area (2.7km x 2.7km) for your site and buffer. A large site and buffer may be made up of several slices (represented by a red outline), that are referenced by letters of the alphabet, starting from the bottom left corner of the slice "grid". This grid does not relate to National Grid lines but is designed to give best fit over the site and buffer.

#### Segment

A segment represents a 1:2,500 plot area. Segments that have plot files associated with them are shown in dark green, others in light blue. These are numbered from the bottom left hand corner within each slice.

#### Quadrant

A quadrant is a quarter of a segment. These are labelled as NW, NE, SW, SE and are referenced in the datasheet to allow features to be quickly located on plots. Therefore a feature that has a quadrant reference of A7NW will be in Slice A, Segment 7 and the NW Quadrant.

A selection of organisations who provide data within this report:



Envirocheck reports are compiled from 136 different sources of data.

### Client Details

Mr H Pars , Wardell Armstrong LLP, Unit 4, Newton Business Centre, Thorncliffe Park, Chapletown, Sheffield, S35 2PH

### Order Details

Order Number: 298878396\_1\_1  
Customer Ref: Ten Acres  
National Grid Reference: 387570, 400280  
Site Area (Ha): 18.51  
Search Buffer (m): 1000

### Site Details

Site at 387600, 400310

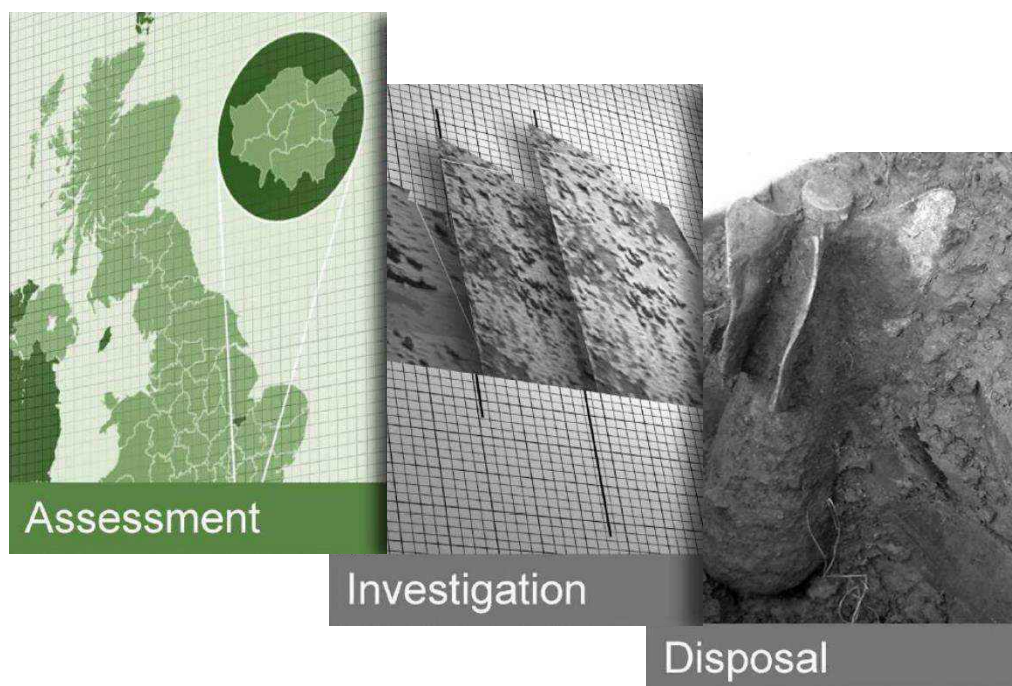
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## **APPENDIX C**

### **Zetica UXO Risk Map**



## **Ten Acres Lane, Newton Heath - UXO Desk Study & Risk Assessment**

Drafted by Joe Lingard  
Checked by Sven Leman  
Authorised by Stefan Lang

**Document Title** UXO Desk Study & Risk Assessment  
**Document Ref.** P10144-20-R1  
**Revision** A  
**Project Location** Ten Acres Lane, Newton Heath  
**Client** Wardell Armstrong  
**Date** 8<sup>th</sup> October 2020

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## UXO DESK STUDY & RISK ASSESSMENT

### EXECUTIVE SUMMARY

**Key findings:** No significant sources of Unexploded Ordnance (UXO) hazard have been identified.

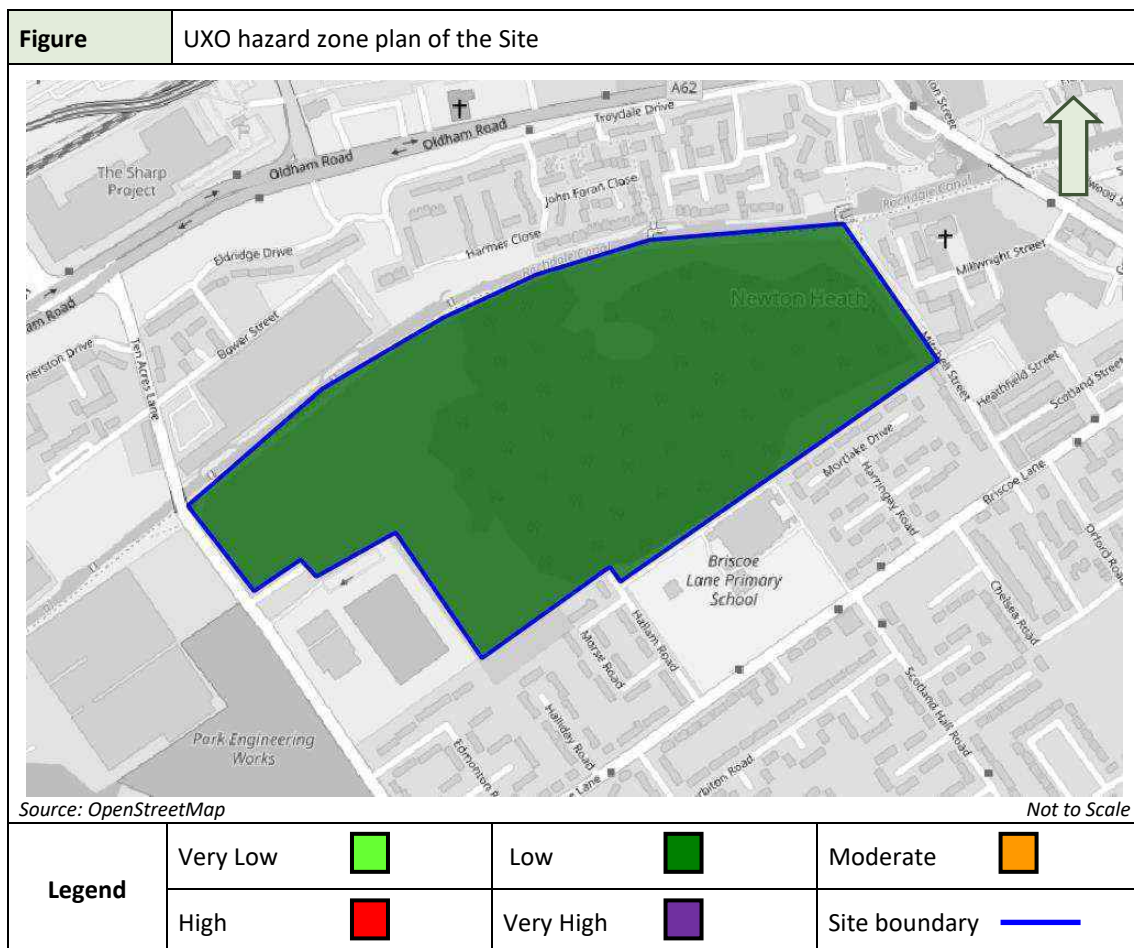
**Key actions:** Proceed with works.

#### UXO Hazard Assessment

No records have been found indicating that the Site was bombed and no other significant sources of UXO hazard have been identified on the Site.

Given this, it is considered that the Site has a low UXO hazard level, as shown in the following Figure, reproduced as Figure 4 in the main report.

The UXO hazard zone plan of the Site is also given in the accompanying P10144-20-R1-MAP01-A.



The main findings of the report are summarised below.

- No records of bombing or military activity on the Site during World War One (WWI) have been found.
- During World War Two (WWII) the main strategic targets in the vicinity of the Site including aircraft manufacturing works, transport infrastructure, public utilities, the Salford Docks and the Manchester Ship Canal.

- No records have been found indicating that the Site was bombed during WWII. Records indicate that the nearest High Explosive (HE) bomb fell approximately 0.2km north of the Site.
- No records of military activity on the Site post-WWII have been found.

### Data Confidence Level

The findings of this report were based on good corroborative evidence of the military activity and bombing on the Site.

### Proposed Works

It is understood that initial works on the Site will involve ground excavation including excavations and boreholes to depths of up to 30m below ground level (bgl).

Future works may include bulk excavation of parts of the Site.

### Risk Assessment

The Table below, reproduced as Table 4 in the main report, provides a UXO risk assessment for the proposed works on the Site.

Further details on the methodology for the risk assessment are provided in Section 7.2 of the main report.

| Table                                                                                  |                     | UXO risk assessment for the Site |    |             |            |          |             |          |
|----------------------------------------------------------------------------------------|---------------------|----------------------------------|----|-------------|------------|----------|-------------|----------|
| Potential UXO Hazard                                                                   | Anticipated Works   | PE                               | PD | P = PE x PD | Likelihood | Severity | Risk Rating | UXO Risk |
| UXB                                                                                    | Shallow Excavations | 1                                | 1  | 1           | 1          | 5        | 5           | Low      |
|                                                                                        | Deep Excavations    | 1                                | 1  | 1           | 1          | 5        | 5           | Low      |
|                                                                                        | Boreholes           | 1                                | 1  | 1           | 1          | 4        | 4           | Low      |
| Other UXO                                                                              | Shallow Excavations | 1                                | 1  | 1           | 1          | 4        | 4           | Low      |
|                                                                                        | Deep Excavations    | 1                                | 1  | 1           | 1          | 4        | 4           | Low      |
|                                                                                        | Boreholes           | 1                                | 1  | 1           | 1          | 3        | 3           | Low      |
| PE (Probability of Encounter), PD (Probability of Detonation), P (Overall Probability) |                     |                                  |    |             |            |          |             |          |
| Shallow Excavations defined as <1.0m below ground level (bgl.)                         |                     |                                  |    |             |            |          |             |          |

### Risk Mitigation Plan

The Table below, reproduced as Table 5 in the main report, summarises the UXO risk for proposed works on the Site and recommended actions.

| Table          | Summary of UXO risk and mitigation recommendations                                |                                                                                                                                                    |
|----------------|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Proposed Works | UXO Risk                                                                          | Recommended Mitigation                                                                                                                             |
| Excavations    |  | <b>Proceed with works</b> – if additional comfort is required to address the residual UXO hazard, a formal UXO awareness briefing can be provided. |
| Boreholes      |  | <b>Proceed with works</b>                                                                                                                          |

In summary, no additional measures are considered essential to reduce the UXO risk on the Site to As Low As is Reasonably Practicable (ALARP).

### What Do I Do Next?

If you have any comments or require further assistance, contact us via phone (01993 886682) or email ([uxo@zetica.com](mailto:uxo@zetica.com)) and we can help.

If you have requirements to identify other buried hazards (such as mapping utilities or obstructions) we can provide these surveys.

If proposed works on the Site change, or additional works are planned, contact Zetica for a re-assessment of the UXO risk and the risk mitigation requirements.

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## Accompanying GIS Data

P10144-20-R1-MAP01-A (UXO Desk Study)

## ABBREVIATIONS

|                |                                                |
|----------------|------------------------------------------------|
| <b>AA</b>      | Anti-Aircraft                                  |
| <b>AAP</b>     | Aircraft Acceptance Park                       |
| <b>ALARP</b>   | As Low As Reasonably Practicable               |
| <b>ARP</b>     | Air Raid Precaution                            |
| <b>AXO</b>     | Abandoned Explosive Ordnance                   |
| <b>BD</b>      | Bomb Disposal                                  |
| <b>BDO</b>     | Bomb Disposal Officer                          |
| <b>BDU</b>     | Bomb Disposal Unit                             |
| <b>CMD</b>     | Conventional Munitions Disposal                |
| <b>DCLG</b>    | Department of Communities and Local Government |
| <b>EO</b>      | Explosive Ordnance                             |
| <b>EOC</b>     | Explosive Ordnance Clearance                   |
| <b>EOR</b>     | Explosive Ordnance Reconnaissance              |
| <b>ERW</b>     | Explosive Remnants of War                      |
| <b>ESA</b>     | Explosive Substances and Articles              |
| <b>FFE</b>     | Free From Explosives                           |
| <b>HAA</b>     | Heavy Anti-Aircraft                            |
| <b>HE</b>      | High Explosive                                 |
| <b>HSE</b>     | Health and Safety Executive                    |
| <b>IB</b>      | Incendiary Bomb                                |
| <b>IED</b>     | Improvised Explosive Device                    |
| <b>IEDD</b>    | Improvised Explosive Device Disposal           |
| <b>JSEODOC</b> | Joint Services EOD Operations Centre           |
| <b>LAA</b>     | Light Anti-Aircraft                            |
| <b>MoD</b>     | Ministry of Defence                            |
| <b>OB</b>      | Oil Bomb                                       |
| <b>PM</b>      | Parachute Mine                                 |
| <b>PUCA</b>    | Pick Up and Carry Away                         |
| <b>RAF</b>     | Royal Air Force                                |
| <b>TEP</b>     | Time Expired Pyrotechnics                      |
| <b>UXAA</b>    | Unexploded Anti-Aircraft                       |
| <b>UXB</b>     | Unexploded Bomb                                |
| <b>UXO</b>     | Unexploded Ordnance                            |
| <b>WWI</b>     | World War One                                  |
| <b>WWII</b>    | World War Two                                  |

## UXO DESK STUDY & RISK ASSESSMENT

**Please read:** Zetica has colour coded each paragraph. Paragraphs with black text on a white background are paragraphs that provide site-specific information or information specifically researched as part of this project.

Boxed paragraphs in a dark green text with a green background are paragraphs providing general information and, where appropriate, links to online resources giving further detail. These are all available at [www.zeticauxo.com](http://www.zeticauxo.com). If you cannot gain access to these resources, Zetica can forward them on request.

### 1 INTRODUCTION

#### 1.1 Project Outline

Zetica Ltd was commissioned by Wardell Armstrong to carry out a detailed Unexploded Ordnance (UXO) Desk Study and Risk Assessment for an area of approximately 18.8 hectares (ha) off Ten Acres Lane, Newton Heath, Manchester (the

### **1.2.3 Ministry of Defence and Government Records**

Government departments and units within the Ministry of Defence (MoD) were approached for information of past and present military activity in the area. These included the Department of Communities and Local Government (DCLG) records of abandoned bombs.

### **1.2.4 Other Historical Records, Maps and Drawings**

Numerous reference documents including historical maps, aerial photographs and drawings have been consulted from sources such as the National Archives, the US National Archives & Records Administration (NARA), the Imperial War Museum (IWM), Historic England and the Defence of Britain Project.

The British Geological Survey (BGS) was consulted for borehole information.

### **1.2.5 Local Authority Records**

Information was obtained from Manchester City Council.

### **1.2.6 Local Record Offices and Libraries**

The Greater Manchester County Record Office, Manchester Central Library Archive and Manchester University have been consulted for records.

### **1.2.7 Local Historical and Other Groups**

Local history groups and archaeological bodies were consulted, including the Greater Manchester Historic Environmental Record (HER).

## **1.3 Data Confidence Level**

In general, there is a high level of confidence in the researched information sources used for this report. Exceptions to this are specifically detailed in the text of the report.

It should be noted that it has not been possible to obtain detailed historical aerial photography for the Site, as the Historic England archive is shut due to the Covid-19 outbreak. Readily available aerial photography has been used where possible.

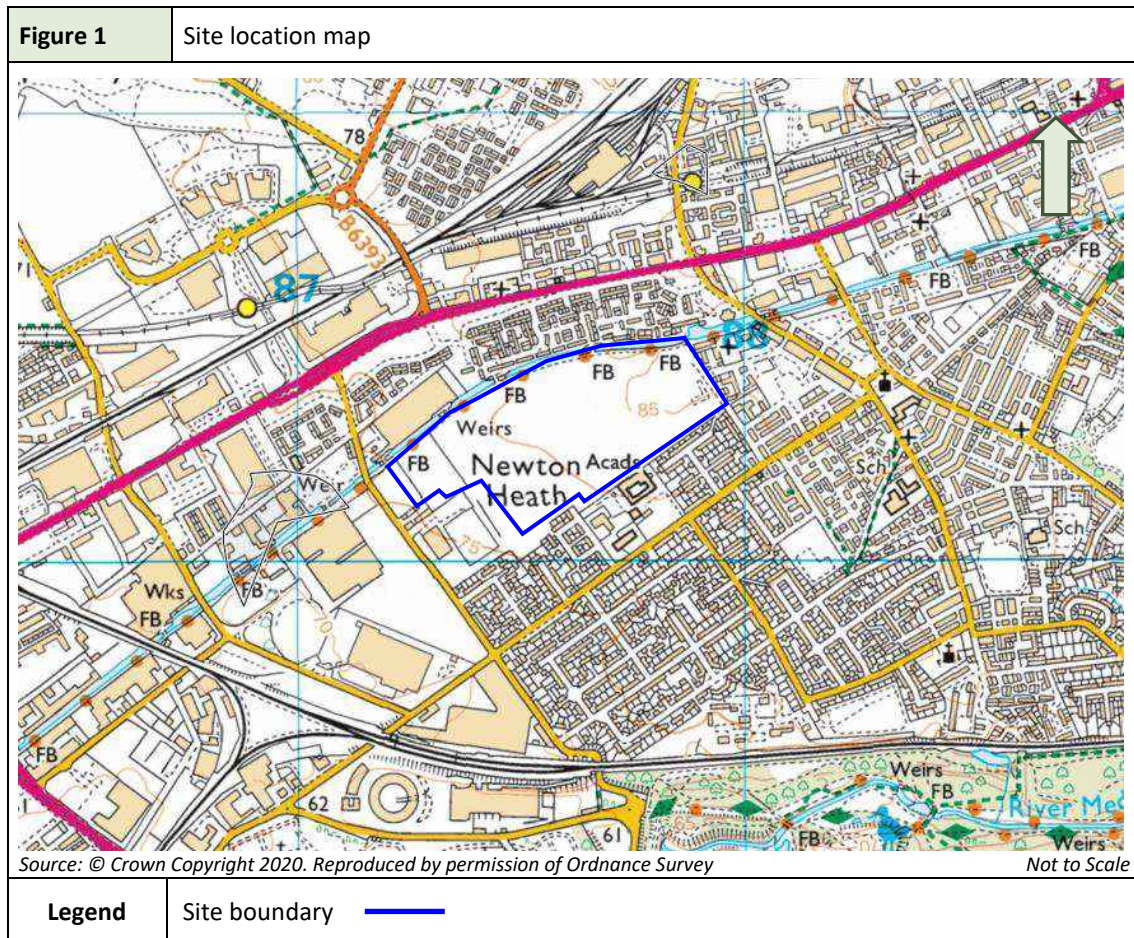
## 2 THE SITE

### 2.1 Site Location

The Site is centred on Ordnance Survey National Grid Reference (OSNGR) SD 876003. It is located approximately 3.6km northeast of central Manchester.

The Site comprises open land. It is bounded to the north by the Manchester Canal, to the east by Mitchell Street, to the south by residential buildings and to the east by Ten Acres Lane and sports facilities.

Figure 1 is a Site location map and Plate 1 is a recent aerial photograph of the Site.





### 3 MILITARY ACTIVITY

The following sections outline the recorded military activity in the vicinity of the Site. The potential UXO hazard from WWI and WWII bombing is detailed in Section 4.

Each sub-section provides hyperlinks to further information on potential sources of UXO hazard. These are also available at [www.zeticauxo.com](http://www.zeticauxo.com). If you cannot gain access to these resources, Zetica can forward them on request.

#### 3.1 Defences

For further information on military defences, and the potential UXO hazards associated with them, follow the links below:

- [Anti-Aircraft Guns](#)
- [Anti-Invasion Defences](#)
- [Barrage Balloons](#)
- [Bombing Decoys](#)
- [Home Guard](#)
- [Mined Locations](#)
- [Mortar & Gun Emplacements](#)
- [Pillboxes](#)

No military defences have been identified on the Site. The nearest are described below.

##### 3.1.1 Anti-Aircraft Guns

During WWI there were 9No. Anti-Aircraft (AA) batteries within 10km of the Site. The nearest was located at Newton Heath (SJ 877996), approximately 0.6km south of the Site. It was armed with 1No. 18 pounder (pdr) gun.

During WWII there were 27No. Heavy AA (HAA) and ZAA batteries within 10km of the Site. The nearest was located at Brookdale (SD 890015), approximately 1.5km northeast of the Site.

The nearest recorded WWII AA shell incidents to the Site are described below.

##### 14<sup>th</sup> March 1941

1No. AA shell fell on 83 Droylsden Road, approximately 0.4km east of the Site.

1No. AA shell fell on 96 Church Street, approximately 0.3km east of the Site.

##### Potential UXO Hazard

Given the number of HAA gun batteries in the surrounding area during WWII, the potential for a UXAA shell to have fallen on the Site unnoticed, whilst unlikely, cannot be totally discounted.

##### 3.1.2 Bombing Decoys

The nearest recorded bombing decoy was located at Reddish (SJ 912939), approximately 7.1km south of the Site.

Bombing decoys are not considered to provide a source of UXO hazard to the Site.

### 3.2 Military Airfields

For further information on military airfields, and the potential UXO hazards associated with them, follow the links below:

- [Military Airfields](#)

No records of any military airfields on or in close proximity to the Site have been found.

The nearest recorded military airfield during WWI was Royal Air Force (RAF) Alexandra Park, approximately 6km southwest of the Site. This functioned as an Aircraft Acceptance Park (AAP), used for assembly, test flying, and delivery of aircraft from the nearby aircraft factories.

During WWII, the nearest military airfield was RAF Barton, approximately 13.1km west of the Site. Its primary function was to accept and repair damaged aircraft. Post-WWII, the airfield was used as a flight school.

Military airfields are not considered to provide a source of UXO hazard to the Site.

### 3.3 Aircraft Crashes

For further information on military aircraft crashes, and the potential UXO hazards associated with them, follow the links below:

- [Aircraft Crashes](#)

No records of any aircraft crashes on or in close proximity to the Site have been found.

### 3.4 Explosives Factories, Munitions Depots and Disposal Areas

For further information on explosives factories, munitions depots and disposal areas, and the potential UXO hazards associated with them, follow the links below:

- [Explosives Factories](#)
- [Munitions Depots](#)
- [Munitions Disposal Areas](#)

No records of any explosives factories, munitions depots or munitions disposal areas on the Site have been found.

#### 3.4.1 Park Engineering Works

In 1900, the Mather & Platt works moved their Iron foundry operations to the Newton Heath Park Engineering Works, approximately 0.1km southwest of the Site. They were previously located at the Salford Iron Works, approximately 4.2km west of the Site.

The Site was occupied at this time by the Newton Heath Brick Works, which would remain operational on the Site until the 1950s.

During WWI, part of the Newton Heath Park Engineering Works was leased to Avro for the manufacture of aircraft and in 1915 the works were taken over by the government for the production of munitions.

During the 1920s, Avro remained at the factory producing the Avian, Cadet, Tutor and Anson aircraft and used the airfield at Alexandra Park (see section 3.2) for final assembly and test flights.

Avro left the factory in 1938 but Newton Heath Park Engineering Works were again used for aircraft production during WWII, specialising in the development and manufacturing of parts for the Lancaster Bomber (see Figure 2).

After the war the factory returned to engineering production and was finally closed in July 2013.

The Park Engineering works is not considered to provide a significant source of UXO hazard to the Site.

### 3.5 Firing Ranges and Military Training Areas

For further information on firing ranges and military training areas, and the potential UXO hazards associated with them, follow the links below:

- [Artillery Ranges](#)
- [Bombing Ranges](#)
- [Military Training Areas](#)
- [Small Arms Ranges](#)

No records of any firing ranges or military training areas on or in close proximity to the Site have been found.

### 3.6 Other Military Establishments

No other military establishments have been identified on or in close proximity to the Site.

## **4 BOMBING**

### **4.1 WWI Bombing**

For further information on WWI bombing in the UK, and the potential UXO hazard associated with it, see Appendix 2.1. Alternatively, use the following link.

- [WWI Bombing](#)

No records have been found indicating that the Site was bombed during WWI.

### **4.2 WWII Bombing**

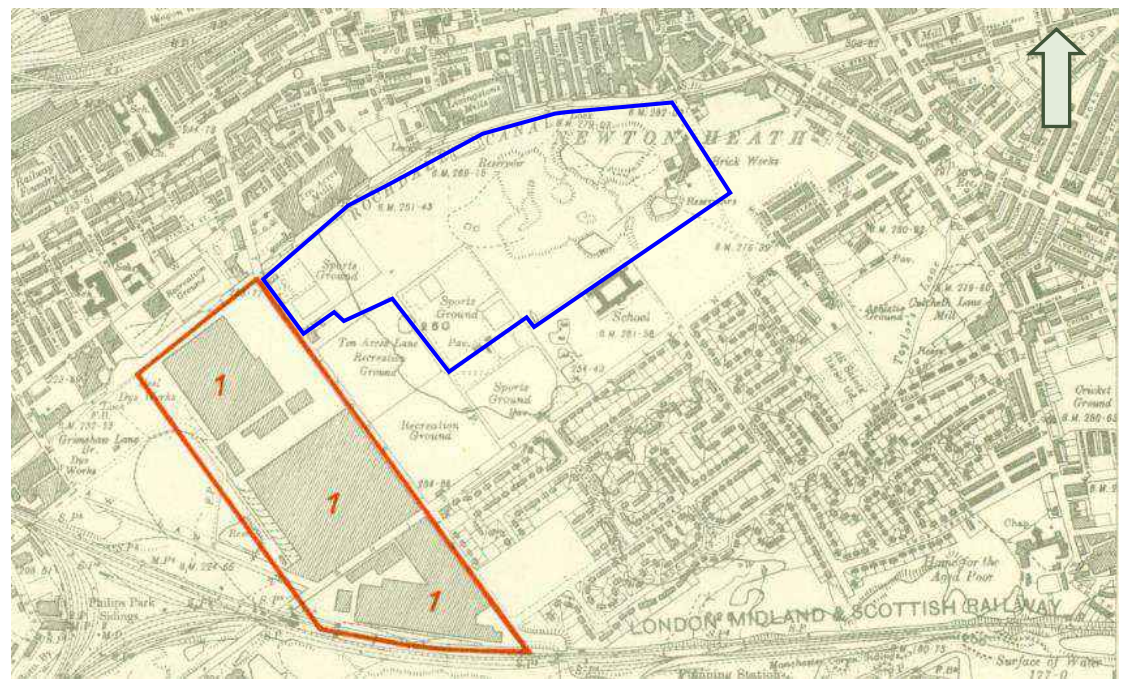
For further information on WWII bombing in the UK, and the potential UXO hazard associated with it, see Appendix 2.2. Alternatively, use the following link.

- [WWII Bombing](#)

No records have been found indicating that the Site was bombed during WWII. Details of WWII bombing in the vicinity of the Site are provided in the following sections.

#### **4.2.1 Bombing in Manchester**

Manchester

**Figure 2** Luftwaffe target map of the Avro works, October 1940

Source: NARA

Not to Scale

**Legend**

Site boundary —

**4.2.3 Bombing Densities and Incidents**

Table 1 gives details of the overall bombing statistics recorded for the Local Authority Districts of the Site and surrounding districts. These were categorised as Rural Districts (RD), Urban Districts (UD), Municipal or Metropolitan Boroughs (MB) and County Boroughs (CB). WWII bomb density levels are defined below:

<5 bombs per 405ha is a Very Low regional bombing density.

5-15 bombs per 405ha is Low.

15-50 bombs per 405ha is Moderate.

50-250 bombs per 405ha is High.

>250 bombs per 405ha is Very High.

**Table 1** Bombing statistics

| Area          | Bombs Recorded |                 |       |       |                               |
|---------------|----------------|-----------------|-------|-------|-------------------------------|
|               | High Explosive | Parachute Mines | Other | Total | Bombs per 405ha (1,000 acres) |
| Manchester CB | 712            | 18              | 7     | 737   | 27.0                          |
| Stretford MB  | 456            | 64              | 0     | 520   | 147.3                         |
| Salford CB    | 406            | 29              | 16    | 451   | 86.7                          |
| Middleton MB  | 37             | 0               | 0     | 37    | 7.2                           |
| Chadderton UD | 11             | 1               | 0     | 12    | 4.0                           |
| Failsforth UD | 2              | 2               | 0     | 4     | 3.7                           |

Note that Table 1 excludes the figures for Incendiary Bombs (IBs). Discrepancies between this list and other records, such as bomb clearance records, demonstrate that this data is likely to under-represent actual bombing.

Details of the nearest recorded bombing incidents to the Site are given in the following section.

#### 1<sup>st</sup> June 1941

3No. HE bombs fell in a line from the allotment gardens on Ceylon Street to Vine Street, between 0.2km northwest and 0.3km north of the Site.

It should be noted that during WWII, many Unexploded Bombs (UXBs) were mapped and subsequently removed as and when conditions and demands on Bomb Disposal teams allowed. Their removal was not always accurately recorded and sometimes records were later destroyed. In practice, most UXB were probably removed and only a much smaller number were actually registered as officially abandoned bombs.

Figure 3 is a map showing the approximate location of recorded bomb impacts in the immediate vicinity of the Site. IBs shown are indicative of larger numbers of similar devices that fell within the given area.

The map has been compiled from a number of different sources, including air raid incident reports, historical aerial photographs and bomb census maps.

The bomb map is also given in the accompanying P10144-20-R1-MAP01-A.

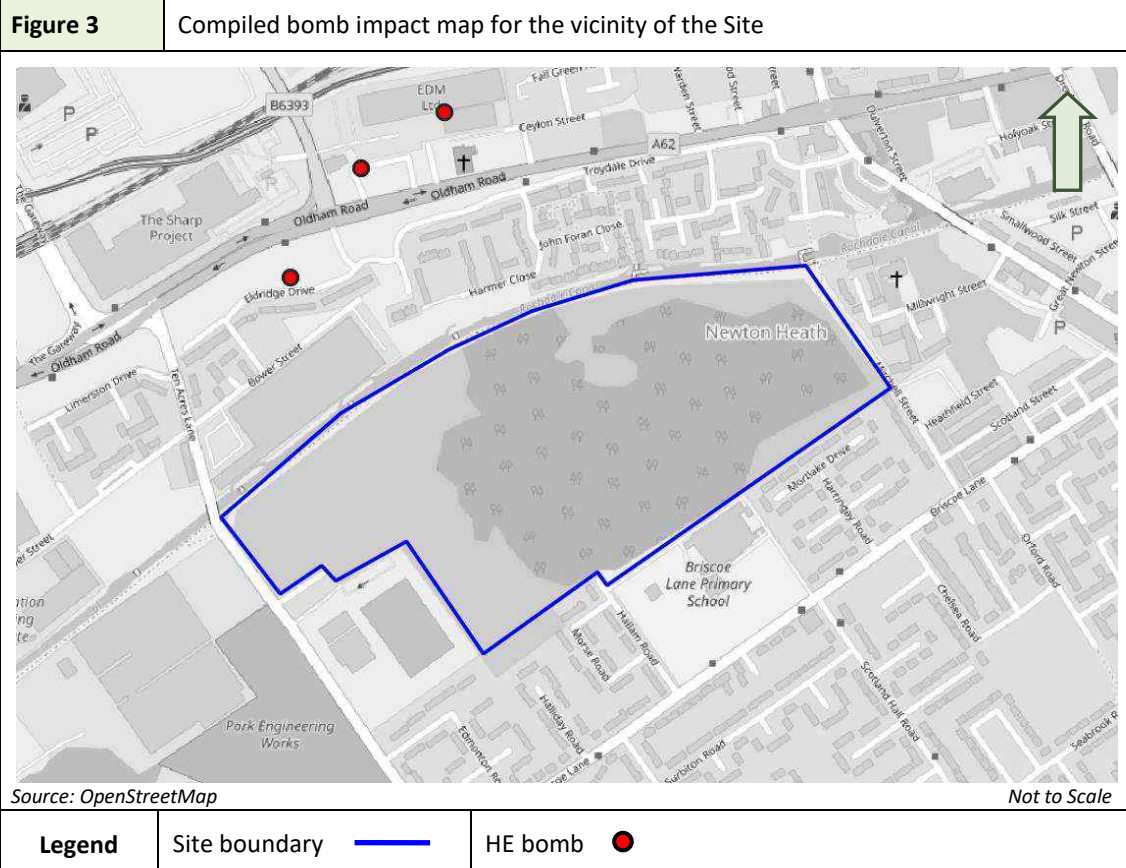
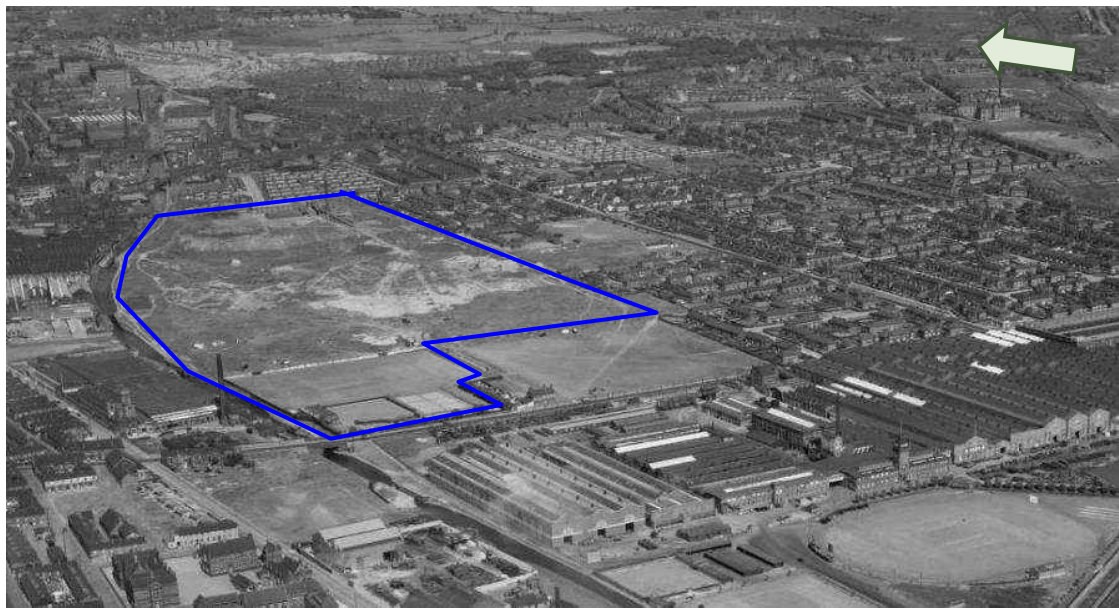


Plate 2 is an aerial photograph dated the 3<sup>rd</sup> July 1953. No bomb damage has been identified on the Site.

The Park Engineering works can be seen to the southwest of the Site.

**Plate 2** Aerial photograph, 3<sup>rd</sup> July 1953

Source: BritainfromAbove

Not to Scale

**Legend**

Site boundary —

**Potential UXO Hazard**

No records have been found indicating that the Site was bombed and no bomb damage has been identified on the Site on historical aerial photography.

WWII bombing is not considered to provide a source of UXO hazard to the Site.

**4.2.4 Geology and Bomb Penetration Depths**

It is important to consider the geological materials present at the time that a bomb was dropped in order to establish its maximum penetration depth.

At the time of writing, no Site-specific ground investigation data was available.

British Geological Survey (BGS) 1:50,000 Sheet 85 Manchester (Solid & Drift) and BGS borehole records from nearby investigations have been consulted to get an indicative overview of the Site geology.

The geology of the Site is understood to consist of up to 15m of Made Ground and landfill materials dating from post-WWII, over glacial till overlying Permian bedrocks of the Collyhurst Sandstone Formation, faulted against the Manchester Marls Formation in the extreme west.

Table 2 provides an estimate of average maximum bomb penetration depths for the central and south-eastern part of the Site assuming WWII ground conditions of 5m of firm to stiff clay overlying loose sand and weathered sandstone at the top of the Permian bedrock.

| <b>Table 2</b> Estimated average maximum bomb penetration depths (central and southeast) |       |      |
|------------------------------------------------------------------------------------------|-------|------|
| Estimated average bomb penetration depths for anticipated geology                        |       |      |
| Bomb Weight                                                                              | 50kg  | 5.0m |
|                                                                                          | 250kg | 6.5m |
|                                                                                          | 500kg | 8.5m |

Table 3 provides an estimate of average maximum bomb penetration depths for the western part of the Site assuming WWII ground conditions of 10m of firm to stiff clay and 10m of stiff to very stiff clay overlying weathered sandstone and mudstone at the top of the Permian bedrock.

|                                                                   |                                                          |       |
|-------------------------------------------------------------------|----------------------------------------------------------|-------|
| Table 3                                                           | Estimated average maximum bomb penetration depths (west) |       |
| Estimated average bomb penetration depths for anticipated geology |                                                          |       |
| Bomb Weight                                                       | 50kg                                                     | 5.5m  |
|                                                                   | 250kg                                                    | 8.0m  |
|                                                                   | 500kg                                                    | 12.0m |

These calculations can be refined on receipt of Site-specific information.

The estimated bomb penetration depths given in Table 2 are from the WWII ground level and are based on the following assumptions:

- a) High level release of the bomb resulting in an impact velocity of 260m/s (>5,000m altitude).
- b) A strike angle of 10 to 15 degrees to the vertical.
- c) That the bomb is stable, both in flight and on penetration.
- d) That no retarding units are fitted to the bomb.
- e) That the soil type is homogenous.

A high altitude release of a bomb will result in ground entry at between 10° and 15° to the vertical with the bomb travelling on this trajectory until momentum is nearly lost. The bomb will then turn abruptly to the horizontal before coming to rest. The distance between the centre of the entry hole and the centre of the bomb at rest is known as

## 5 EXPLOSIVE ORDNANCE CLEARANCE ACTIVITIES

Official UK bombing statistics have been compiled from both British and German sources. There were differences in the way the figures were originally reported and collated which has led to discrepancies in the summary data.

Based on data from 1939 to 1945, War Office statistics indicate that 200,195No. HE bombs exploded within Great Britain. Additionally, 25,195No. HE bombs (representing 11%) were recorded as UXBs. However, records from the Royal Engineers who were responsible for bomb disposal at the time indicate that as of 27<sup>th</sup> February 1946 upwards of 45,000No. UXBs were disposed of.

On average 8.5% of UXBs later self-exploded. In some cases the bombs had delayed action fuzes or were never intended to explode, their purpose being to cause inconvenience and fear. Given the discrepancy in records and the fact that UXBs are still being found unexpectedly, it is clear that the original figures are understated and provide only an approximation of the number of potential UXBs in the UK.

War Office statistics also show that between October 1940 and May 1941 most of the UXBs (93%) were either 50kg or 250kg. It should be noted that details of the recovery and the size of the UXB were not always accurately reported.

The larger WWII UXBs are often difficult to recover due to both penetration depths and the presence of two or more fuzes, combined with more sensitive fillings of explosive mixtures including Amatol and Trialen.

### 5.1 Abandoned Bombs

For further information on abandoned bombs, and the potential UXO hazard associated with them, follow the link below:

- [Abandoned Bombs](#)

No records have been found indicating that any officially abandoned bombs are located on the Site.

### 5.2 EOC Tasks

Zetica holds the following record of post-WWII EOC tasks having taken place in the vicinity of the Site.

#### 2<sup>nd</sup> October 2020

1No. inert shell was discovered by a magnet fisherman in the Rochdale Canal, off Grimshaw Lane, approximately 0.4km west of the Site. It was removed by a Bomb Disposal Unit (BDU).

## 6 UXO HAZARD ASSESSMENT

### 6.1 UXO Hazard Level

The definitions for the levels of UXO hazard are provided below.

| Definitions of UXO Hazard Level for a Site |                                                                                                              |
|--------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| Hazard Level                               | Definition                                                                                                   |
| Very Low                                   | There is positive evidence that UXO is not present, e.g. through physical constraints or removal.            |
| Low                                        | There is no positive evidence that UXO is present, but its occurrence cannot be totally discounted.          |
| Moderate                                   | There is positive evidence that ordnance was present or that other uncharted ordnance may be present as UXO. |
| High                                       | There is positive evidence that UXO is present.                                                              |
| Very High                                  | As high, but requires immediate or special attention due to the potential hazard.                            |

No records have been found indicating that the Site was bombed and no other significant sources of UXO hazard have been identified on the Site.

Given this, it is considered that the Site has a low UXO hazard level, as shown in Figure 4.

The UXO hazard zone plan of the Site is also given in the accompanying P10144-20-R1-MAP01-A.

**Figure 4** UXO hazard zone plan of the Site



Source: OpenStreetMap

Not to Scale

|        |          |                                                                                     |           |                                                                                     |               |                                                                                       |
|--------|----------|-------------------------------------------------------------------------------------|-----------|-------------------------------------------------------------------------------------|---------------|---------------------------------------------------------------------------------------|
| Legend | Very Low |  | Low       |  | Moderate      |  |
|        | High     |  | Very High |  | Site boundary |  |

## 7 UXO RISK ASSESSMENT

### 7.1 Proposed Works

It is understood that initial works on the Site will involve ground excavation including excavations and boreholes to depths of up to 30m bgl.

Future works may include bulk excavation of parts of the Site.

### 7.2 Risk Assessment Methodology

A UXO risk assessment has been undertaken for the proposed works, taking into consideration the identified UXO hazard.

Firstly, the probability of encountering UXO (PE) has been considered and rated for the different construction techniques, as detailed below.

| Probability of Encounter (PE)                | Rating |
|----------------------------------------------|--------|
| Frequent, highly likely, almost certain.     | 5      |
| Probable, more likely to happen than not.    | 4      |
| Occasional, increased chance or probability. | 3      |
| Remote, unlikely to happen but could.        | 2      |
| Improbable, highly unlikely.                 | 1      |
| Impossible                                   | 0      |

Secondly, the probability of detonating a UXO (PD) has been considered and rated for the different construction techniques, as detailed below.

| Probability of Detonation (PD)               | Rating |
|----------------------------------------------|--------|
| Frequent, highly likely, almost certain.     | 5      |
| Probable, more likely to happen than not.    | 4      |
| Occasional, increased chance or probability. | 3      |
| Remote, unlikely to happen but could.        | 2      |
| Improbable, highly unlikely.                 | 1      |
| Impossible                                   | 0      |

Next, the probability of encountering and detonating the UXO (PE x PD) have been used to generate an overall likelihood rating (P).

| P = PE x PD                                                                                                                                                                                                               | LIKELIHOOD of Encounter and Detonation       | Rating |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|--------|
| 21 to 25                                                                                                                                                                                                                  | Frequent, highly likely, almost certain.     | 5      |
| 16 to 20                                                                                                                                                                                                                  | Probable, more likely to happen than not.    | 4      |
| 6 to 15                                                                                                                                                                                                                   | Occasional, increased chance or probability. | 3      |
| 2 to 5                                                                                                                                                                                                                    | Remote, unlikely to happen but could.        | 2      |
| 1                                                                                                                                                                                                                         | Improbable, highly unlikely.                 | 1      |
| 0                                                                                                                                                                                                                         | Impossible                                   | 0      |
| <b>P ranges from 25, a certainty of UXO being encountered and detonated on the Site by engineering activity, to 0, a certainty that UXO does not occur on the Site and will not be detonated by engineering activity.</b> |                                              |        |

The likelihood of encountering and detonating UXO during site works is multiplied by the severity of such an event occurring (P x S), in order to provide a risk level using the following matrix.

| Severity (S)                                            | Rating |
|---------------------------------------------------------|--------|
| Multiple fatalities                                     | 5      |
| Major injury, long term health issues, single fatality. | 4      |
| Minor injury, short term health issues, no fatalities.  | 3      |
| First aid case but no lost time or ill health.          | 2      |
| Minor injuries, no first aid.                           | 1      |
| No injuries.                                            | 0      |

| UXO Risk Matrix |              |    |    |    |    |   |   |
|-----------------|--------------|----|----|----|----|---|---|
| LIKELIHOOD (P)  | SEVERITY (S) |    |    |    |    |   |   |
|                 |              | 5  | 4  | 3  | 2  | 1 | 0 |
|                 | 5            | 25 | 20 | 15 | 10 | 5 | 0 |
|                 | 4            | 20 | 16 | 12 | 8  | 4 | 0 |
|                 | 3            | 15 | 12 | 9  | 6  | 3 | 0 |
|                 | 2            | 10 | 8  | 6  | 4  | 2 | 0 |
|                 | 1            | 5  | 4  | 3  | 2  | 1 | 0 |
|                 | 0            | 0  | 0  | 0  | 0  | 0 | 0 |

### 7.3 UXO Risk Level

The UXO risk assessment for proposed works on the Site is given in Table 4.

| Table 4                                                                                |                     | UXO risk assessment for the Site |    |             |            |          |             |          |
|----------------------------------------------------------------------------------------|---------------------|----------------------------------|----|-------------|------------|----------|-------------|----------|
| Potential UXO Hazard                                                                   | Anticipated Works   | PE                               | PD | P = PE x PD | Likelihood | Severity | Risk Rating | UXO Risk |
| UXB                                                                                    | Shallow Excavations | 1                                | 1  | 1           | 1          | 5        | 5           | Low      |
|                                                                                        | Deep Excavations    | 1                                | 1  | 1           | 1          | 5        | 5           | Low      |
|                                                                                        | Boreholes           | 1                                | 1  | 1           | 1          | 4        | 4           | Low      |
| Other UXO                                                                              | Shallow Excavations | 1                                | 1  | 1           | 1          | 4        | 4           | Low      |
|                                                                                        | Deep Excavations    | 1                                | 1  | 1           | 1          | 4        | 4           | Low      |
|                                                                                        | Boreholes           | 1                                | 1  | 1           | 1          | 3        | 3           | Low      |
| PE (Probability of Encounter), PD (Probability of Detonation), P (Overall Probability) |                     |                                  |    |             |            |          |             |          |
| Shallow Excavations defined as <1.0m below ground level (bgl.)                         |                     |                                  |    |             |            |          |             |          |

## 8 RISK MITIGATION PLAN

**Key findings:** No significant sources of UXO hazard have been identified.

**Key actions:** Proceed with works.

### 8.1 UXO Risk Summary

Table 5 summarises the UXO risk for proposed works on the Site and recommended actions.

| Table 5 Summary of UXO risk and mitigation recommendations |                                                                                   |                                                                                                                                                    |
|------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Proposed Works                                             | UXO Risk                                                                          | Recommended Mitigation                                                                                                                             |
| Excavations                                                |  | <b>Proceed with works</b> – if additional comfort is required to address the residual UXO hazard, a formal UXO awareness briefing can be provided. |
| Boreholes                                                  |  | <b>Proceed with works</b>                                                                                                                          |

In summary, no additional measures are considered essential to reduce the UXO risk on the Site to As Low As is Reasonably Practicable (ALARP).

### 8.2 Risk Mitigation Techniques

Should you wish to provide staff involved in excavations with increased awareness regarding the potential (albeit low) for UXO encounter, this can be done through a formal briefing.

#### 8.2.1 UXO Awareness Briefing

Typically ~1hour in duration, these briefings will be expected to provide site workers with:-

- Background to the potential UXO hazards that could be encountered.
- Awareness of how the UXO hazard could present a risk.
- Knowledge of what to do in the event that a suspect item is encountered.

The briefing is to be provided along with back-up materials such as UXO awareness posters, emergency contact numbers and other background information to assist site workers in becoming familiar with what potential UXO can look like.

The materials can also be used by key staff to pass on the relevant points of the induction to others who visit or work on the Site.

By providing the UXO awareness briefing, it ensures that in the unlikely event that UXO is encountered:-

- All site staff take appropriate action.
- A support mechanism and points of contact are established.
- The likelihood of harm to people or property is reduced.
- Significant delays to site work are prevented.

### 8.3 What Do I Do Next?

If you have any comments or require further assistance, contact us via phone (01993 886682) or email (uxo@zetica.com) and we can help.

If you have requirements to identify other buried hazards (such as mapping utilities or obstructions) we can provide these surveys.

If proposed works on the Site change, or additional works are planned, contact Zetica for a re-assessment of the UXO risk and the risk mitigation requirements.

## APPENDICES

### Appendix 1 Anticipated Ordnance Types

The probability of encountering UXO on the Site is considered to be low. As with any similar site in the UK, there is always a background risk of finding ordnance and potential types to be encountered are detailed below. For a more comprehensive set of ordnance data sheets, see <http://zeticauxo.com/downloads-and-resources/ordnance-data-sheets/>.

#### Information Data Sheet

**Category** Bomb (Luftwaffe)

**Type** Sprengbombe-Cylindrisch (SC) 50kg

**Variants** 8

**Body Dimensions** 762 x 200mm (30" x 7.9")

**Weight** 55kg (122lbs)

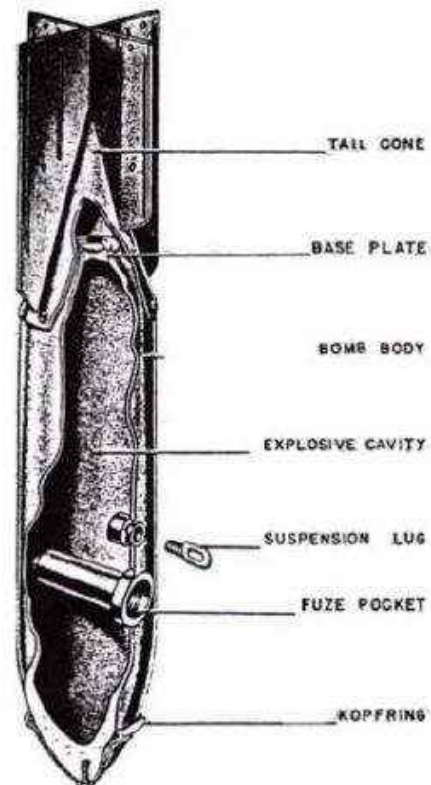
**Charge Weight** 25kg (54lbs)

**Fuze** Single electric impact fuze. Some have short time delay

**Composition** Sheet steel

**Description** Thick nose welded to a steel body. Nose may be attached to Kopfring (a triangular section steel ring) or spike. Suspension bolt in eye/body and sheet metal tail attached to body with rivets/screws. Originally painted green-grey with a yellow stripe on the tail. Cast TNT, Amatol or Trialen filling.

**Function** Designed to maximise shock waves through air, water and earth and for general demolition. Used against easily damageable targets, including roads, aircraft hangars, rolling stock and small buildings. Spike bombs/ 'Stabo' (SC 50 with spikes attached to nose) were used against rail lines and country roads, with Kopfring used against naval targets.



## Information Data Sheet

**Category** Bomb

**Type** Sprengbombe-Cylindrisch (SC) 250kg

**Variants** 8

**Body Dimensions** 1194mm x 368mm (47" x 14.5")

**Weight** 249-264 kg (548-582lbs)

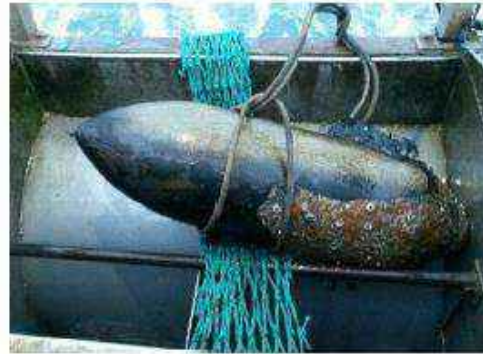
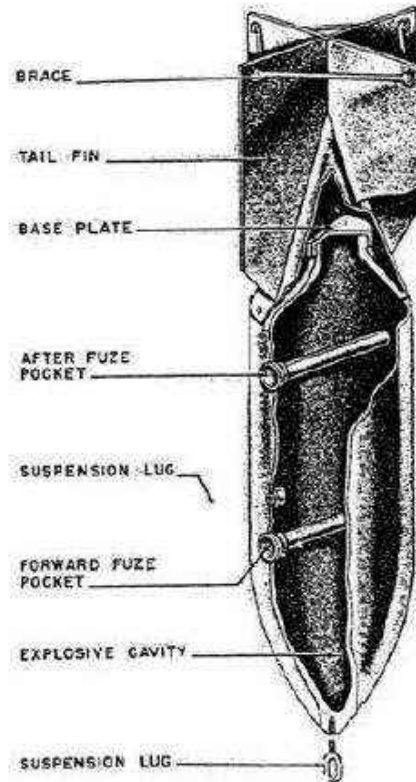
**Charge Weight** 130-145 kg (287-320lbs)

**Fuze** Electric impact fuze/electric clockwork time fuse & electric anti-disturbance fuze

**Composition** Sheet steel with stays

**Description** Thick nose welded to steel body. Nose may be attached to Kopfring (triangular section steel ring) or spike. Sheet metal tail attached to body with rivets/ screws. Suspension eye bolt in the nose/body. Originally painted green-grey with a yellow stripe on the tail. TNT; amatol; TNT and aluminium powder, naphthalene, ammonium nitrate and wax/ wood meal filling.

**Function** Designed to maximise shock waves through air, water and earth and general demolition. Used against railway installations, large buildings, ammunition depots and below-ground installations (to 8m). Spike bombs/ 'Stabo' (SC 50 with spikes attached to nose) used against rail lines and country roads.



## Information Data Sheet

**Category** Bomb

**Type** Sprengbombe-Cylindrisch (SC) 500kg

### Variants

**Body Dimensions** 1414–1486mm x 470mm (55.7–58.5' x 18.5")

**Weight** 500kg (1,100lbs)

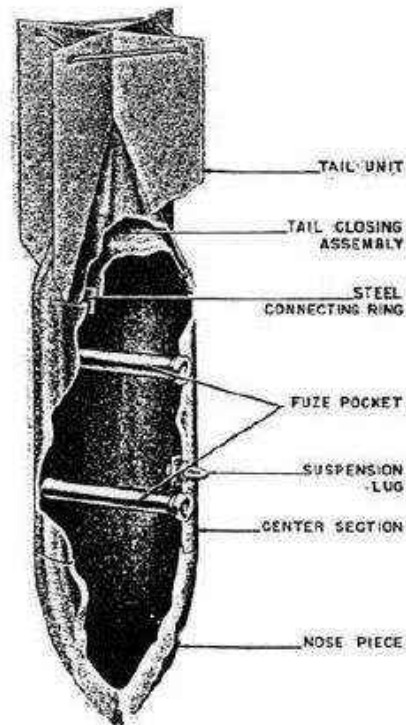
**Charge Weight** 220kg (484lbs)

**Fuze** Electric impact fuze/electric clockwork time fuze & electric anti-disturbance fuze.

**Composition** Sheet steel with stays or drum

**Description** Thick nose welded to steel body. Nose may be attached to Kopfring (triangular section steel ring). Tail either steel sheet or drum-shaped. Suspension band. Originally painted green-grey/ buff (some later versions sky blue) with yellow stripe on tail. Filled with amatol, TNT or tritonal.

**Function** Designed to maximise shock waves through air, water and earth and for general demolition. Used against railway property, large buildings, shipping and below-ground installations.



## Information Data Sheet

**Category** Bomb

**Type** Sprengbombe-Cylindrisch (SC) 1,000kg (HERMANN)

**Variants** 3

**Body Dimensions** 1742-1905mm x 648-660mm (68.6-75" x 25.5-26")

**Weight** 1,000-1,088kg (2,204-2,398lbs)

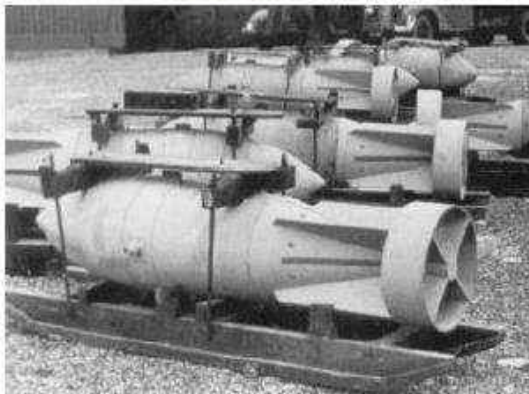
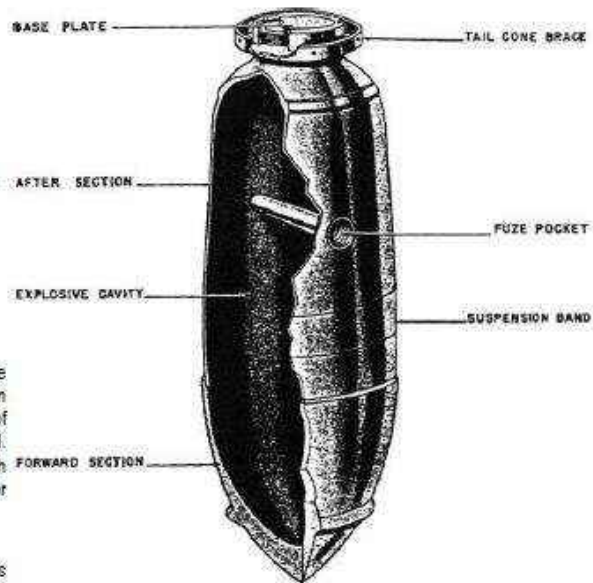
**Charge Weight** 529-619kg (1,166-1,364lbs)

**Fuze** Electric impact fuze/ electric clockwork time fuze & electric anti-disturbance fuze

**Composition** Magnesium alloy with drum

**Description** Thick nose welded to steel body. Nose attached to Kopfring (triangular section steel ring). Drum-shaped tail made of magnesium alloy. Suspension band. Originally painted sky-blue. Filled with amatol, TNT/aluminium/wood meal or trialen.

**Function** Designed to maximise shock waves through air, water and earth and for general demolition.



## Information Data Sheet

**Category** Projectile  
**Type** 3.7" Anti-Aircraft Shell

**Variants** 6

**Body Dimensions** 94mm x 360mm (3.7 x 14.7")

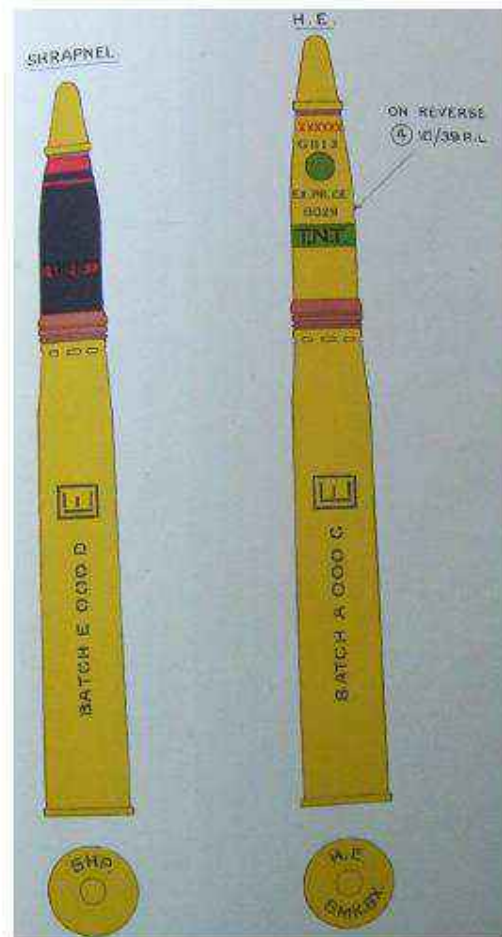
**Weight** 12.7kg (28lb)

**Fuze** Mechanical time fuze

**Composition** Cast steel

**Description** Brass cartridge case. Square-based shell with tapered nose, filled with Amatol, TNT or RDX/TNT. MK6 had forward centring bands and a wider driving band.

**Function** Used as a defence against enemy aircraft, fired from fixed batteries and mobile mountings. Could fire approximately 20 rounds per minute with a maximum ceiling of 41,000ft and horizontal range of 20,600 yards.



### Information Data Sheet

**Category** Projectile  
**Type** 4.5" Shell (Mark II – Anti-Aircraft)

**Variants** -

**Body Dimensions** 114mm x 566mm (4.5" x 21.9")

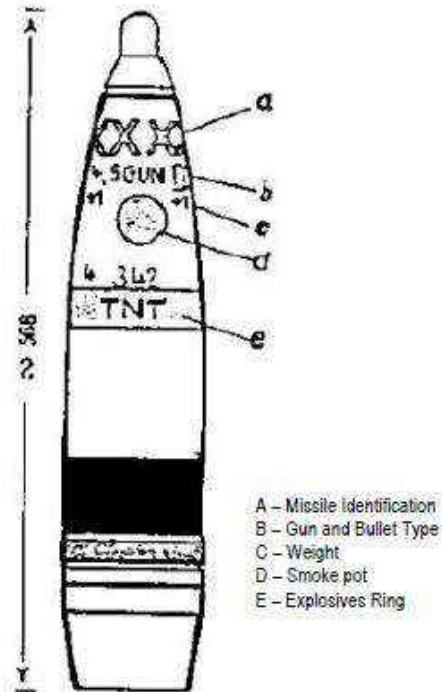
**Weight** 24.9kg (55lb)

**Fuze** Mechanical time fuze

**Composition** Cast steel

**Description** Square-based, tapered-nosed shell filled with TNT or Amatol. Steel casing, rotating band of either copper or gilding metal located 3.5" in front of the base end with single groove.

**Function** Used as field artillery and adapted for use in anti-aircraft defence from fixed batteries. Rate of fire of 8 rounds per minute, maximum ceiling of 44,000ft and horizontal range of 22,800 yards.



## Appendix 2 Sources of UXO Hazard

The sections below provide background information on the potential sources of UXO hazard (albeit low) affecting the Site. For a more comprehensive set of UXO information sheets, see <http://zeticauxo.com/downloads-and-resources/uxo-information-sheets/>.

### Appendix 2.1 WWI Bombing

It is not generally realised that during World War One (WWI) significant bombing took place across some areas of the UK. An estimated 9,000No. German bombs were dropped on Britain during the course of 51No. airship and 52No. aircraft raids. It was the first time that strategic aerial bombardment had been used. More than 1,400No. people were killed during these raids.

Most air raids were carried out on London and Southeast England. Areas along the East Coast were also targeted regularly due to their proximity to the European continent. Bombing raids further inland were rare and West England and Wales were out of reach for German aircraft of the time.

Aerial bombing during WWI initially relied on visual aiming, with bombsights not developed until later in the war. The inaccuracy inherent in this method meant that bombs often fell some way from their intended targets.

The first recorded raid against England occurred on the 21<sup>st</sup> December 1914 when 2No. high explosive bombs fell near the Admiralty Pier at Dover. Zeppelin raids intensified during 1915 and 1916, with aircraft raids becoming more frequent after 1917. The last raid of WWI took place on the 19<sup>th</sup> May 1918, when 38 Gotha and 3 Giant aircraft bombed London and surrounding districts, dropping a total of more than 2,500lbs of bombs.



The potential of coming across an Unexploded Bomb (UXB) from WWI is far less likely than a WWII UXB given the lower bombing densities during raids in the Great War.

Some areas which were subjected to sustained bombing raids, such as parts of London and coastal towns, recorded a higher number of UXB. In these areas, where there has been no significant development for the last century, the potential of a UXB remaining from WWI cannot be totally discounted.

## **Appendix 2.2 WWII Bombing**

Bombing raids began in the summer of 1940 and continued until the end of WWII. Bombing densities generally increased towards major cities or strategic targets such as docks, harbours, industrial premises, power stations and airfields. In addition to London, industrial cities and ports, including Birmingham, Coventry, Southampton, Liverpool, Hull and Glasgow, were heavily targeted, as well as seaside towns such as Eastbourne and cathedral cities such as Canterbury.

The German bombing campaign saw the extensive use of both High Explosive (HE) bombs and Incendiary Bombs (IBs). The most common HE bombs were the 50kg and 250kg bombs, although 500kg were also used to a lesser extent. More rarely 1,000kg, 1,400kg and 1,800kg bombs were dropped.

The HE bombs tended to contain about half of their weight in explosives and were fitted with one or sometimes two fuzes. Not all HE bombs were intended to explode on impact. Some contained timing mechanisms where detonation could occur more than 70 hours after impact.

Incendiary devices ranged from small 1kg thermite filled, magnesium bodied Incendiary Bombs

Anti-shipping parachute mines were commonly dropped over navigable rivers, dockland areas and coastlines. The Royal Navy was responsible for ensuring that the bombs were made safe. Removal and disposal was still the responsibility of the Bomb Disposal Unit of the Royal Engineers.

In 1944, the Germans

### Appendix 2.3 Anti-Aircraft Guns

As aerial bombardment first began during WWI, Anti-Aircraft (AA) gun batteries were established and gradually established throughout much of England to counter German bombing raids. By June 1916, there were approximately 271 No. AA guns and 258 No. searchlight installations defending London alone.

Common AA defences during WWI included 3-inch, 75 millimetre, 6-pounder and 1-pounder guns. Many of these guns were mobile, being mounted on lorry chassis. They were driven about following the course of an airship and fired from any area of open land.

During WWI, Unexploded AA (UXAA) shells, could land up to 13km from the firing point, although more typically fell within 10km.



AA gun batteries were used extensively during WWII to counter the threat posed by enemy aircraft. In many instances, AA shells caused damage to Allied territory and in some areas caused significant numbers of civilian fatalities.

During WWII, AA shells could land up to 27km from the firing point, although more typically fell within 15km. These could be distributed over a wide area.

3No. types of AA batteries existed:

- **Heavy Anti-Aircraft (HAA)** batteries of large guns (typically 3.7"

### Appendix 3 Recent UXO Finds

UXO finds in the UK are a regular occurrence, although they almost never result in an accidental detonation.

It is still important to note that explosives rarely lose effectiveness with age. In some instances, mechanisms such as fuzes and gaines can become more sensitive and more prone to detonation, regardless of whether the device has been submersed in water or embedded in silt, clay or similar materials.

The effects of an accidental UXO detonation are usually extremely fast, often catastrophic and invariably traumatic to any personnel involved. Such occurrences are largely restricted to current theatres of war and overseas minefields, with occasional events in mainland Europe.

The sections below provide a brief summary of recent significant UXO finds in the UK. To keep up to date with the latest UXO finds, visit <http://zeticauxo.com/news/>.

On the 4<sup>th</sup> September 2017, 1No. 50kg UXB was found in a ragstone quarry at Kings Hill near West Malling in Kent. It was destroyed in situ in a controlled explosion by an EOD team.

On the 11<sup>th</sup> February 2018, 1No. 500kg UXB was found in King George V Dock in London, resulting in the temporary closure of the adjacent London City Airport. The UXB was freed from a silt bed and towed along the River Thames to Shoeburyness where it was destroyed in a controlled explosion.

On the 26<sup>th</sup> February 2018, an EOD team destroyed numerous items of ordnance including shells and 20mm ammunition which had been exposed by storms on Selsey beach. A similar operation was required after more UXO finds on the beach in April 2018.

On the 31<sup>st</sup> March 2018, 2No. 870lb British PMs were found in waters off Guernsey. They were destroyed in controlled explosions.

On the 20<sup>th</sup> May 2018, a 1,000kg German sea mine washed ashore at Elmer beach near Bognor Regis, West Sussex. A 1 mile exclusion zone was enforced before an EOD team towed the device out to sea for a controlled explosion.

On the 24<sup>th</sup> May 2018, numerous ordnance-related items were found on a proposed residential development in Burntwood, Staffordshire.

On the 10<sup>th</sup> July 2018, a suspected 1,000kg German UXB was found by scuba divers near Teignmouth Pier in Devon. The UXB was towed out into open sea by a RN EOD team for a controlled explosion.

On the 30<sup>th</sup> August 2018, a 2,000lb German PM was trawled up by a fishing vessel off Mersea in Essex. The PM was moved to an area of open sea where it was destroyed in a controlled explosion by a RN EOD team.

On the 29<sup>th</sup> November 2018 a large naval projectile was found at Wembury Point, Plymouth. It was destroyed in a controlled explosion.

During January and February 2019 a military EOD was called out to deal with several items of UXO washed up at Medmerry Beach in Selsey. The site of a former gunnery range, it followed on from several similar incidents in 2018.

On the 21<sup>st</sup> January 2019 a suspected 1,000lb torpedo was brought into Brixham Harbour by a fishing trawler. It was towed back out to sea and destroyed by a Naval EOD team.

On the 6<sup>th</sup> February 2019 3No. WWII projectiles were found on Chalkwell Beach near Southend-on-Sea, Essex. They were destroyed in a controlled explosion.

On the 19<sup>th</sup> February 2019 6No. projectiles were found on the beach at Lilstock, Somerset.

On the 14<sup>th</sup> March 2019 an unexploded pipe mine was found at the former RAF Manston airfield near Ramsgate, Kent. It was destroyed in a controlled explosion.

On the 21<sup>st</sup> March 2019 2No. unexploded shells were found on a building site in Brighton. They were removed by an EOD team.

On the 25<sup>th</sup> March 2019 an unexploded shell was found in Stechford, Birmingham. It was removed to a field and destroyed in a controlled explosion.

On the 22<sup>nd</sup> May 2019 70No. Self-Igniting Phosphorus (SIP) grenades were found during development works at Tongland Dam in Dumfries & Galloway, Scotland. They were destroyed in a controlled explosion.

On the 23<sup>rd</sup> May 2019 a 250kg German UXB was found by workers on a building site at Kingston University in London (see plate below). The UXB could not be safely removed and was consequently destroyed in situ by an EOD team.



On the 27<sup>th</sup> May 2019 24No. SIP grenades were found in a field near Sibton in Suffolk. An EOD team constructed a 2ft deep trench into which the grenades were placed before being destroyed in a controlled explosion.

On the 7<sup>th</sup> June 2019 a 50kg German fragmentation UXB was found at a building site in Kings Hill at the former RAF West Malling airfield. It was destroyed in a controlled explosion by an EOD team the following day. On the 26<sup>th</sup> September 2019 another 50kg German UXB was found at Kings Hill and was destroyed in a controlled explosion the next day.

On the 20<sup>th</sup> September 2019 a suspected 250kg German UXB was found on a construction site in Bordon, Hampshire. It was destroyed in a controlled explosion by an EOD team.

In September 2019 a German PM was found by divers off Southend-on-Sea, Essex. It was towed out to open water off Shoeburyness by a Royal Navy EOD team and destroyed in a controlled explosion.

On the 3<sup>rd</sup> February 2020, a 500kg German UXB was found on a building site in Soho, London. It was removed by an EOD team.

## Appendix 4 Glossary and Definitions

|                                           |                                                                                                                                                                                                                                                                                                                                             |
|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Abandoned Explosive Ordnance (AXO)</b> | Abandoned Explosive Ordnance is explosive ordnance that has not been used during an armed conflict, that has been left behind or disposed of by a party to an armed conflict, and which is no longer under control of that party. Abandoned explosive ordnance may or may not have been primed, fuzed, armed or otherwise prepared for use. |
| <b>Close Combat Munitions</b>             | Items of ordnance thrown, propelled or placed during land warfare, to include grenades, mortars, projectiles, rockets and land mines.                                                                                                                                                                                                       |
| <b>Demil</b>                              | Derived                                                                                                                                                                                                                                                                                                                                     |

|                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Explosive Substances and Articles (ESA)</b> | <p>Explosive substances are solid or liquid substances (or a mixture of substances), which are either:</p> <ul style="list-style-type: none"> <li>• capable by chemical reaction in itself of producing gas at such a temperature and pressure and at such a speed as to cause damage to the surroundings.</li> <li>• designed to produce an effect by heat, light, sound, gas or smoke, or a combination of these as a result of a non-detonative, self-sustaining, exothermic reaction.</li> </ul> <p>Explosive article is an article containing one or more explosive substances.</p>                                    |
| <b>Fuze</b>                                    | A fuze is the part of an explosive device that initiates the main explosive charge to function. In common usage, the word fuze is used indiscriminately, but when being specific (and in particular in a military context), fuze is used to mean a more complicated device, such as a device within military ordnance.                                                                                                                                                                                                                                                                                                      |
| <b>Gain</b>                                    | Small explosive charge that is sometimes placed between the detonator and the main charge to ensure ignition.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Geophysical survey</b>                      | A geophysical survey is essentially a range of methods that can be used to detect objects or identify ground conditions without the need for intrusive methods (such as excavation or drilling). This is particularly suited to ordnance as disturbance of ordnance items is to be avoided where ever possible.                                                                                                                                                                                                                                                                                                             |
| <b>Gold line</b>                               | This is the estimated limit of blast damage from an explosive storage magazine. It usually means that development within this zone is restricted.                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>High Explosive</b>                          | Secondary explosives (commonly known as High Explosives (HE)) make up the main charge or filling of an ordnance device. They are usually less sensitive than primary explosives. Examples of secondary explosives are: Nitro glycerine (NG), Trinitrotoluene (TNT), AMATOL (Ammonia nitrate + TNT), Gunpowder (GP), and Cyclotrimethylenetrinitramine (RDX).                                                                                                                                                                                                                                                                |
| <b>Munition</b>                                | <p>Munition is the complete device charged with explosives, propellants, pyrotechnics, initiating composition, or nuclear, biological or chemical material for use in military operations, including demolitions. This includes those munitions that have been suitably modified for use in training, ceremonial or non-operational purposes. These fall into three distinct categories:-</p> <ul style="list-style-type: none"> <li>• inert - contain no explosives whatsoever.</li> <li>• live - contain explosives and have not been fired.</li> <li>• blind - have fired but failed to function as intended.</li> </ul> |

|                                              |                                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Primary Explosive</b>                     | Primary explosives are usually extremely sensitive to friction, heat, and pressure. These are used to initiate less sensitive explosives. Examples of primary explosives are: Lead Azide, Lead Styphnate, and Mercury Fulminate. Primary explosive are commonly found in detonators.                                                                                              |
| <b>Propellants</b>                           | Propellants provide ordnance with the ability to travel in a controlled manner and deliver the ordnance to a predetermined target. Propellants burn rapidly producing gas, pressure and flame. Although usually in solid form they can be produced in liquid form. Examples of propellants are: Ballistite often found in a flake form and Cordite used in small arms ammunition. |
| <b>Pyrotechnic</b>                           | A pyrotechnic is an explosive article or substance designed to produce an effect by heat, light, sound, gas or smoke, or a combination of any of these, as a result of non-detonative, self-sustaining, exothermic chemical reactions.                                                                                                                                            |
| <b>Small Arms Ammunition (SAA)</b>           | SAA includes projectiles around 12mm or less in calibre and no longer than approximately 100mm. They are fired from a variety of weapons, including rifles, pistols, shotguns and machine guns.                                                                                                                                                                                   |
| <b>Unexploded Anti-Aircraft (UXAA) Shell</b> | UXAA shells are army ordnance commonly containing HE, though they can also contain pyrotechnic compounds that produce smoke.<br><br>Most commonly                                                                                                                                                                                                                                 |

## **Appendix 5 Bibliography**

Bulloch G, Steeds J E, Green K, Sainsbury M G, Brockwell J S & Slade N J, Land Contamination: Technical Guidance on Special Sites: MoD Land

Bulloch G, Steeds J E, Green K, Sainsbury M G, Brockwell J S, & Slade N J, R&D Technical Report P5-042/TR/03, Land Contamination: Technical Guidance on Special Sites: Explosives Manufacturing & Processing Sites

CIRIA, Unexploded Ordnance (UXO), a Guide for the Construction Industry, 2009

Clarke N J, Luftwaffe Target Reconnaissance, German aerial Photography 1939-1942, 1996

Ramsey W, The Blitz Then and Now, Vol 1, 1987

Ramsey W, The Blitz Then and Now, Vol 2, 1988

Ramsey W, The Blitz Then and Now, Vol 3, 1990

Smith PJC, Luftwaffe Over Manchester: The Blitz Years 1940-44, 2003

Zetica, ZeticaUXO Handbook: a guide to dealing with UXO during construction, 2018

**Established for over 29 years,**



zeticauxo

## **APPENDIX D**

### **BGS Borehole Logs**

C. **TEST PUMPING SUMMARY** (Please supply fully details on Form WR - 39)

|                                                          |                    |                                          |
|----------------------------------------------------------|--------------------|------------------------------------------|
| Test Pumping Datum<br>(if different from borehole datum) | _____              | above<br>m below borehole datum<br>(mbd) |
| Pump Suction Depth                                       | _____              | mbd                                      |
| Water Level (Start of Test)                              | _____              | mbd                                      |
| Water Level (End of Test)                                | _____              | mbd                                      |
| Pumping rate                                             | _____              | m <sup>3</sup> /d : l/s                  |
| for                                                      | _____              | days/hours                               |
| Recovery to (from end of pumping)                        | _____ mbd in _____ | mins : hrs : days                        |
| Date(s) of measurements                                  | _____              |                                          |
| Please Supply Chemical Analysis If Available             |                    |                                          |

D. **STRATA LOG**

**SJ89/243 PIONEER CONCRETE (Miles Platting M/C)**

| Geological Classification | Description of Strata                                              | Thickness | Depth |
|---------------------------|--------------------------------------------------------------------|-----------|-------|
| (BGS only)                |                                                                    | m         | m     |
|                           | CONCRETE                                                           | 0.2       | 0.2   |
|                           | BACK FILL                                                          | 0.2       | 0.4   |
|                           | BLACK CLAY                                                         | 6.0       | 6.4   |
|                           | BLACK CLAY + GRAVEL                                                | 2.6       | 9.0   |
|                           | SANDY CLAY                                                         | 12.8      | 21.8  |
|                           | RED MARL                                                           | 8.4       | 30.2  |
|                           | SAND                                                               | 1.8       | 32.0  |
|                           | BLACK COAL MEASURES                                                | 28.0      | 60.0  |
|                           | [continue on separate page if necessary]                           |           |       |
|                           | Other Comments (eg gas encountered, saline water intercepted, etc) |           |       |
|                           | WHEN WE WENT INTO COAL MEASURES<br>WE HIT A LOT OF WATER           |           |       |

FOR OFFICIAL USE ONLY

FILE ..... CONSENT NO ..... BGS REF NO .....  
 LICENCE NO ..... USE OF BH ..... NGR.....

**GROUNDWATER**

DATE RECEIVED 30-11-99

Maps: One-inch 85 Six-inch 104 N.E.F. County Lancashire

Height above O.D. 290 feet Latitude Longitude

Communicated by Prof. George Hickling Date of sinking 29<sup>th</sup> Aug. 1895.

Made by Hickling's No. 38. Dip of Strata M/c 89.

Trans. Inst. Min. Eng. Vol. LIV. 1918. SB 8824 0072

5/104 NE 12 4  
No well.  
No record.  
Clay  
Quicksand  
Blue clay  
Yellow clay  
Clay & gravel  
? Road soft red sandstone  
O.D. 169 + Red marl  
M.C. Red sandstone.

| Thickness. |   | Depth from Surface. |     |   |
|------------|---|---------------------|-----|---|
|            |   | metres              |     |   |
|            |   | 1.52                | 5   | - |
| 35         | - | 12.19               | 40  | - |
| 25         | - | 19.81               | 65  | - |
| 11         | - | 23.16               | 76  | - |
| 34         | - | 33.52               | 110 | - |
| 5          | - | 35.05               | 115 | - |
| 6          | - | 36.88               | 121 | - |
| 29         | - | 45.72               | 150 | - |
| 204        | - | 107.89              | 354 | - |

Total solids in solution: 142.6.  
CaO 9.0  
MgO 5.0  
SO<sub>3</sub> 5.16  
CO<sub>2</sub> 1.32  
Cl. 2.41  
Hardness 20%  
Alkalinity 24.15%.

Hickling's Synopsis: App. III.  
Drift. 115 ft.  
Permian marl. 35 feet.  
Permian Sandstone. 204 feet.

28.6 ft. / 100 ft.

SECTION OF 2<sup>nd</sup> Borehole

Site about 1/2 mile up the road from Rly. Bridge in Housel Lane.

at Messrs. H. C. Wilson &amp; Co. Brewery,

North Road, Heston Heath,  
Manchester

Maps: One-inch 85.

Six-inch 104 N.E.E.

County Lancashire

Height above O.D. 245 ft.

Latitude

Longitude

Communicated by Professor George Hickling (Bore's record man)

Date of sinking 1889

Made by ~~him not known~~ (Bore's land party destroyed)

Dip of Strata

Address is Liverpool St., Cross Lane, Salford.

Hickling's No. 36. Trans. Inst. Min. Eng. Vol. LIV. 1918.

M/c 92 a

185/104 NE 120-121

|                                      | Thickness. |   | Depth from Surface. |       |
|--------------------------------------|------------|---|---------------------|-------|
|                                      |            |   | metres              |       |
| Clay                                 | 53         | — | 16.15               | 53 —  |
| Red sand                             | 2          | — | 16.76               | 55 —  |
| Clay                                 | 5          | — | 18.28               | 60 —  |
| Running sand                         | 2          | 6 | 19.05               | 62 6  |
| Clay                                 | 5          | — | 20.57               | 67 6  |
| Sand                                 | 2          | 6 | 21.33               | 70 —  |
| Loamy sand                           | 14         | — | 25.60               | 84 —  |
| Clay with stones                     | 5          | — | 27.12               | 89 —  |
| Strong dark clay                     | 19         | — | 32.91               | 108 — |
| Coarse red gravel                    | 2          | — | 33.52               | 110 — |
| Red sandstone                        | 10         | — | 36.57               | 120 — |
| Soft red sandstone                   | 80         | — | 60.96               | 200 — |
| Coarse red sandstone                 | 21         | — | 67.36               | 221 — |
| Fine loamy <sup>red</sup> sandstone  | 39         | — | 29.24               | 260 — |
| Coarse red sandstone                 | 13         | — | 83.21               | 273 — |
| Fine loamy red sandstone             | 25         | — | 90.83               | 298 — |
| Coarse red sandstone.                | 12         | — | 94.48               | 310 — |
| Red sandstone                        | 41         | — | 106.98              | 351 — |
| Loamy red sandstone                  | 48         | — | 121.61              | 399 — |
| Hard red sandstone with white bands. | 7          | — | 123.74              | 406 — |
| Coarse red sandstone                 | 51         | — | 139.29              | 457 — |
| Fine loamy sandstone                 | 21         | — | 145.69              | 478 — |
| Coarse sandstone                     | 35         | — | 156.36              | 513 — |
| Fine red sandstone.                  | 49         | — | 171.29              | 562 — |

Hickling's synopsis: App. III

ft. ... 110 ft.

nter. . 452 ft. ("P" = possibly Permian Sst.)

~~Estimated total depth 578 ft.~~~~Sum of last~~

For Secondary use only)  
GEOLOGICAL  
CLASSIFICATION

# NATURE OF STRATA

If measurements start below  
ground surface, state how far ..

## THICKNESS

Feet Inches  
.. ..

## DEPTH

Feet Inches

9/m

MADE GROUND.

2'

0"

2'

0"

0.61

LOAMEY CLAY.

10'

0"

12'

0"

4.65

RIVER SILT.

13'

0"

25'

0"

7.62

SAND WITH FINE GRAVEL.

25'

0"

50'

0"

15.24

BROWN MARL

62'

0"

112'

0"

34.13

SOFT RED SANDSTONE.

124'

0"

236'

0"

71.93

Maps: One-inch 85.

Six-inch 104 N.E.5

County Lancashire.

Height above O.D. 190 feet.

196 I.W.S.

Latitude 57.9

Longitude

Communicated by

Professor George Hickling.

Date of sinking

1909

Made by

Hickling's No. 39.

Dip of Strata

Trans. Inst. Min. Eng. Vol. LIV. 1918.

see Inland Water Survey M/c 83  
Mersey Catchment

Lined to 55 feet from surface. (Tubed to 180' acc to IWS) No 20

Thickness.

Depth from Surface.

Yield 25,000 gallons per hour.

For condensing ~~strile~~ purposes.

(85/104 NE 125)

B.H. staked at 24 ins. in diam.

was reduced to 15" when 85

Boulder clay

Through the sides falling in

Fine red sandstone

The depth was reduced to

Very fine red sandstone, slightly mossy

570 feet. at this depth

Fine red sandstone

in Nov. 1915. the

quantity of water was

18,000 gals. per hour.

Very fine red sandstone

Fine white &amp; red sandstone

Fine red sandstone

Coarse red sandstone

Fine red sandstone

Coarse red sandstone

Fine red sandstone

Coarse red sandstone

Fine red sandstone.

Coarse red sandstone

Fine red sandstone

Coarse red sandstone

Fine red sandstone

Coarse red sandstone

Fine red sandstone

Coarse red sandstone

Fine red sandstone

Coarse red sandstone

Fine red sandstone

Coarse red sandstone

Fine red sandstone

Coarse red sandstone

Fine red sandstone

Coarse red sandstone

Fine red sandstone

Coarse red sandstone

Fine red sandstone

Coarse red sandstone

Fine red sandstone

Coarse red sandstone

Marls

Shale

Parts per 100,000.

4.0

11.2.

6.0.

1.84.

2.48.

0.99.

Solids in Solution @ 120°C.

Lime (CaO.)

Magnesia (MgO.)

Sulphuric Acid (SO<sub>3</sub>)

Chlorine (Cl.)

Carbonic Acid free (CO)

Hickling's Synopsis: App. III:—

Drift. 40 feet.

Permian Str. 560 feet.

Coal Measures. 22 feet.

For further notes see

Hickling's App. I:—

p. 29 (of reprint)

## **APPENDIX E**

### **Guidance on Contaminated Land Risk Assessments**

| Consequence of Risk Being Realised (based on CIRIA C552, 2001)         |                   |                                                                                                                                                                                           |                                                                                                                    |
|------------------------------------------------------------------------|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| Classification                                                         | Category          | Definition                                                                                                                                                                                | Examples                                                                                                           |
| <b>Severe</b><br><br>short-term (acute) risks only                     | Humans            | Short-term (acute) risk to human health likely to result in “significant harm” as defined by the Environment Protection Act 1990, Part 2A.                                                | High concentrations of cyanide on the surface of an informal recreation area.                                      |
|                                                                        | Controlled Waters | Short-term risk of pollution (note: Water Resources Act contains no scope for considering significance of pollution) of sensitive water resource.                                         | Major spillage of contaminants from site into controlled water.                                                    |
|                                                                        | Property          | Catastrophic damage to buildings/property.                                                                                                                                                | Explosion causing building collapse (can also equate to a short-term human health risk if buildings are occupied). |
|                                                                        | Ecological System | A short-term risk to a particular ecosystem, or organism forming part of such ecosystem.                                                                                                  |                                                                                                                    |
| <b>Medium</b><br><br>chronic (long term) risks; “significant harm”     | Humans            | Chronic damage to Human Health (“significant harm” as defined in Defra 2006).                                                                                                             | Concentrations of a contaminant from site exceed the generic, or site-specific assessment criteria                 |
|                                                                        | Controlled Waters | Pollution of sensitive water resources (note: Water Resources Act contains no scope for considering significance of pollution).                                                           | Leaching of contaminants from a site into a major or minor aquifer.                                                |
|                                                                        | Ecological System | A significant change in a particular ecosystem                                                                                                                                            | Death of a species within a designated nature reserve.                                                             |
| <b>Mild</b><br><br>chronic (long term) risks; less sensitive receptors | Controlled Waters | Pollution of non-sensitive water resources.                                                                                                                                               | Pollution of non-classified groundwater                                                                            |
|                                                                        | Property          | Significant damage to buildings, structures and services (“significant harm” as defined in Circular on Contaminated Land, Defra, 2006). Damage to sensitive buildings/structures/services | Damage to building rendering it unsafe to occupy (e.g., foundation damage resulting in instability)                |
|                                                                        | Ecological System | Significant damage to crops. Damage to the environment.                                                                                                                                   |                                                                                                                    |
| <b>Minor</b>                                                           | Financial project | Harm, although not necessarily significant harm, which may result in a financial loss, or expenditure to resolve.                                                                         |                                                                                                                    |

| Consequence of Risk Being Realised (based on CIRIA C552, 2001) |          |                                                                                                                     |                                                                                                              |
|----------------------------------------------------------------|----------|---------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| Classification                                                 | Category | Definition                                                                                                          | Examples                                                                                                     |
| chronic (long term) risks;<br>mild                             | Humans   | Non-permanent health effects to human health (easily prevented by means such as personal protective clothing, etc). | The presence of contaminants at such concentrations that protective equipment is required during site works. |
|                                                                | Property | Easily repairable effects of damage to buildings, structures and services                                           | The loss of plants in a landscaping scheme. Discolouration of concrete.                                      |

| Probability of Risk Being Realised (C552 CIRIA, 2001) |                                                                                                                                                                                                                                                                       |
|-------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Classification                                        | Definition                                                                                                                                                                                                                                                            |
| <b>High Likelihood</b>                                | There is a pollution linkage and an event that either appears very likely in the short term and almost inevitable over the long term, or there is evidence at the receptor of harm or pollution.                                                                      |
| <b>Likely</b>                                         | There is a pollution linkage and all the elements are present and in the right place, which means that it is probable that an event will occur. Circumstances are such that an event is not inevitable, but possible in the short term and likely over the long term. |
| <b>Low Likelihood</b>                                 | There is a pollution linkage and circumstances are possible under which an event could occur. However, it is by no means certain that even over a longer period such event would take place, and is less likely in the shorter term.                                  |
| <b>Unlikely</b>                                       | There is a pollution linkage but circumstances are such that it is improbable that an event would occur even in the very long term.                                                                                                                                   |

| Risk Classification Definitions (C552 CIRIA, 2001) |                                                                                                                                                                                                                                                                                                                                                                          |
|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Very High</b>                                   | There is a high probability that severe harm could arise to a designated receptor from an identified hazard, OR, there is evidence that severe harm to a designated receptor is currently happening. This risk, if realised, is likely to result in a substantial liability. Urgent investigation (if not undertaken already) and remediation are likely to be required. |
| <b>High</b>                                        | Harm is likely to arise to a designated receptor from an identified hazard. Realisation of the risk is likely to present a substantial liability. Urgent investigation (if not undertaken already) is required and remedial works may be necessary in the short term and are likely over the longer term.                                                                |

| Risk Classification Definitions (C552 CIRIA, 2001) |                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Moderate</b>                                    | It is possible that harm could arise to a designated receptor from an identified hazard. However, it is either relatively unlikely that such harm would be severe, or if any harm were to occur it is more likely that the harm would be relatively mild. Investigation (if not already undertaken) is normally required to clarify the risk and to determine the potential liability. Some remedial works may be required in the longer term. |
| <b>Moderate / Low</b>                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Low</b>                                         | It is possible that harm could arise to a designated receptor from an identified hazard, but it is likely that this harm, if realised, would at worst normally be mild.                                                                                                                                                                                                                                                                        |
| <b>Very Low</b>                                    | There is a low possibility that harm could arise to a receptor. In the event of such harm being realised it is not likely to be severe.                                                                                                                                                                                                                                                                                                        |

| Risk Classification Matrix (C552 CIRIA, 2001) |                 |              |              |              |              |
|-----------------------------------------------|-----------------|--------------|--------------|--------------|--------------|
|                                               |                 | Consequence  |              |              |              |
|                                               |                 | Severe       | Medium       | Mild         | Minor        |
| Probability                                   | High Likelihood | Very High    | High         | Moderate     | Moderate/Low |
|                                               | Likely          | High         | Moderate     | Moderate/Low | Low          |
|                                               | Low Likelihood  | Moderate     | Moderate/Low | Low          | Very Low     |
|                                               | Unlikely        | Moderate/Low | Low          | Very Low     | Very Low     |

## **A P P E N D I X F**

### **Exploratory Hole Logs**

## **ABBREVIATIONS**

**TF = Topsoil Fill**

**CONC = Concrete**

**CMG = Cohesive Made Ground**

**CMG = Granular Made Ground**

**DW = Suspected Construction and Demolition Waste**

**CW = Suspected Combustion Waste**

**CS = Suspected Colliery Spoil**

**HW = Suspected Household Waste**

**RNG = Suspected Reworked Natural Ground**

**CGT = Cohesive Glacial Till**

**GGT = Granular Glacial Till**

**CF = Chester Formation**

**CSF = Collyhurst Sandstone Formation**

# Rotary Open Hole Borehole Log

BOREHOLE REFERENCE  
**RH101**  
Sheet 1 of 3

|                              |                                   |                                |
|------------------------------|-----------------------------------|--------------------------------|
| Project Name: Ten Acres Lane | Client: NUVU Developments Ltd     | Date: 14/10/2020               |
| Location: Newton Heath       | Contractor: Geotron               | Co-ords: E387208.10 N400184.69 |
| Project No. : LD10385        | Drilling Equipment: Comacchio 205 | Level : 76.77m AoD             |
| Logged By                    | Checked By<br>JC                  | Approved By<br>MP              |
| Bit Type                     | Core Barrel                       |                                |

| Install. / Backfill | Water Strikes | Sample and In Situ Testing |      |         | Flush | Depth (m) | Level (m) | Legend | Stratum Description                                                  | Scale |
|---------------------|---------------|----------------------------|------|---------|-------|-----------|-----------|--------|----------------------------------------------------------------------|-------|
|                     |               | Depth (m)                  | Type | Results |       |           |           |        |                                                                      |       |
|                     |               |                            |      |         |       | 6.00      | 70.77     |        | Driller notes oily GRAVEL with cobbles of brick and concrete.<br>GMG | 1     |
|                     |               |                            |      |         |       |           |           |        |                                                                      | 2     |
|                     |               |                            |      |         |       |           |           |        |                                                                      | 3     |
|                     |               |                            |      |         |       |           |           |        |                                                                      | 4     |
|                     |               |                            |      |         |       |           |           |        |                                                                      | 5     |
|                     |               |                            |      |         |       |           |           |        |                                                                      | 6     |
|                     |               |                            |      |         |       | 7.50      | 69.27     |        | Driller notes brown, sandy CLAY.<br>CGT                              | 7     |
|                     |               |                            |      |         |       |           |           |        |                                                                      | 8     |
|                     |               |                            |      |         |       |           |           |        |                                                                      | 9     |

| Hole Diameter |          | Casing Diameter |          | Chiselling |      |          |      | Inclination and Orientation |      |             |             | Drilling Flush |      |      |        |         |         | Installation |        |           |          |
|---------------|----------|-----------------|----------|------------|------|----------|------|-----------------------------|------|-------------|-------------|----------------|------|------|--------|---------|---------|--------------|--------|-----------|----------|
| Base          | Diameter | Base            | Diameter | Top        | Base | Duration | Tool | Top                         | Base | Inclination | Orientation | Top            | Base | Type | Colour | Min (%) | Max (%) | Top          | Base   | Pipe Type | Diameter |
|               |          |                 |          |            |      |          |      |                             |      |             |             |                |      |      |        |         |         | 0.00m        | 17.00m | PLAIN     |          |
|               |          |                 |          |            |      |          |      |                             |      |             |             |                |      |      |        |         |         | 17.00m       | 20.00m | SLOTTED   |          |

**General Remarks**  
Logging has been undertaken to provide an approximate volumetric percentage of the various constituents present.

# Rotary Open Hole Borehole Log

BOREHOLE REFERENCE  
**RH101**  
Sheet 2 of 3

|                              |                                   |                                |
|------------------------------|-----------------------------------|--------------------------------|
| Project Name: Ten Acres Lane | Client: NUVU Developments Ltd     | Date: 14/10/2020               |
| Location: Newton Heath       | Contractor: Geotron               | Co-ords: E387208.10 N400184.69 |
| Project No. : LD10385        | Drilling Equipment: Comacchio 205 | Level : 76.77m AoD             |
| Logged By                    | Checked By<br>JC                  | Approved By<br>MP              |
| Bit Type                     | Core Barrel                       |                                |

| Install. / Backfill | Water Strikes | Sample and In Situ Testing |      |         | Flush | Depth (m) | Level (m) | Legend | Stratum Description                                                                 | Scale |
|---------------------|---------------|----------------------------|------|---------|-------|-----------|-----------|--------|-------------------------------------------------------------------------------------|-------|
|                     |               | Depth (m)                  | Type | Results |       |           |           |        |                                                                                     |       |
|                     |               |                            |      |         |       | 12.00     | 64.77     |        | Driller notes wet SAND. GGT                                                         | 10    |
|                     |               |                            |      |         |       |           |           |        |                                                                                     | 11    |
|                     |               |                            |      |         |       |           |           |        | Driller notes brown CLAY. CGT                                                       | 12    |
|                     |               |                            |      |         |       |           |           |        |                                                                                     | 13    |
|                     |               |                            |      |         |       |           |           |        |                                                                                     | 14    |
|                     |               |                            |      |         |       | 15.00     | 61.77     |        | Driller notes mudstone. Probably very stiff CLAY as proven in redrill at RH206. CGT | 15    |
|                     |               |                            |      |         |       |           |           |        |                                                                                     | 16    |
|                     |               |                            |      |         |       |           |           |        |                                                                                     | 17    |
|                     |               |                            |      |         |       | 18.00     | 58.77     |        | Driller notes mudstone. Probably very stiff CLAY as proven in redrill at RH206. CGT | 18    |
|                     |               |                            |      |         |       |           |           |        |                                                                                     | 19    |

| Hole Diameter |          | Casing Diameter |          | Chiselling |      |          |      | Inclination and Orientation |      |             |             | Drilling Flush |      |      |        |         |         | Installation |        |           |          |
|---------------|----------|-----------------|----------|------------|------|----------|------|-----------------------------|------|-------------|-------------|----------------|------|------|--------|---------|---------|--------------|--------|-----------|----------|
| Base          | Diameter | Base            | Diameter | Top        | Base | Duration | Tool | Top                         | Base | Inclination | Orientation | Top            | Base | Type | Colour | Min (%) | Max (%) | Top          | Base   | Pipe Type | Diameter |
|               |          |                 |          |            |      |          |      |                             |      |             |             |                |      |      |        |         |         | 0.00m        | 17.00m | PLAIN     |          |
|               |          |                 |          |            |      |          |      |                             |      |             |             |                |      |      |        |         |         | 17.00m       | 20.00m | SLOTTED   |          |

**General Remarks**  
Logging has been undertaken to provide an approximate volumetric percentage of the various constituents present.

Log printed on 13/09/2022 at 13:09

# Rotary Open Hole Borehole Log

BOREHOLE REFERENCE  
**RH101**  
Sheet 3 of 3

|                              |                                   |                                |
|------------------------------|-----------------------------------|--------------------------------|
| Project Name: Ten Acres Lane | Client: NUVU Developments Ltd     | Date: 14/10/2020               |
| Location: Newton Heath       | Contractor: Geotron               | Co-ords: E387208.10 N400184.69 |
| Project No. : LD10385        | Drilling Equipment: Comacchio 205 | Level : 76.77m AoD             |
| Logged By                    | Checked By<br>JC                  | Approved By<br>MP              |
| Bit Type                     | Core Barrel                       |                                |

| Instal. /<br>Backfill | Water<br>Strikes | Sample and In Situ Testing |      |         | Flush | Depth<br>(m) | Level<br>(m) | Legend | Stratum Description                                                                    | Scale |
|-----------------------|------------------|----------------------------|------|---------|-------|--------------|--------------|--------|----------------------------------------------------------------------------------------|-------|
|                       |                  | Depth (m)                  | Type | Results |       |              |              |        |                                                                                        |       |
|                       |                  |                            |      |         |       | 21.00        | 55.77        |        | Driller notes mudstone. Probably very stiff CLAY as proven in redrill at RH206.<br>CGT | 20    |
|                       |                  |                            |      |         |       |              |              |        | End of Borehole at 21.00m                                                              | 21    |
|                       |                  |                            |      |         |       |              |              |        |                                                                                        | 22    |
|                       |                  |                            |      |         |       |              |              |        |                                                                                        | 23    |
|                       |                  |                            |      |         |       |              |              |        |                                                                                        | 24    |
|                       |                  |                            |      |         |       |              |              |        |                                                                                        | 25    |
|                       |                  |                            |      |         |       |              |              |        |                                                                                        | 26    |
|                       |                  |                            |      |         |       |              |              |        |                                                                                        | 27    |
|                       |                  |                            |      |         |       |              |              |        |                                                                                        | 28    |
|                       |                  |                            |      |         |       |              |              |        |                                                                                        | 29    |

| Hole Diameter |          | Casing Diameter |          | Chiselling |      |          |      | Inclination and Orientation |      |             |             | Drilling Flush |      |      |        |         |         | Installation |        |           |          |
|---------------|----------|-----------------|----------|------------|------|----------|------|-----------------------------|------|-------------|-------------|----------------|------|------|--------|---------|---------|--------------|--------|-----------|----------|
| Base          | Diameter | Base            | Diameter | Top        | Base | Duration | Tool | Top                         | Base | Inclination | Orientation | Top            | Base | Type | Colour | Min (%) | Max (%) | Top          | Base   | Pipe Type | Diameter |
|               |          |                 |          |            |      |          |      |                             |      |             |             |                |      |      |        |         |         | 0.00m        | 17.00m | PLAIN     |          |
|               |          |                 |          |            |      |          |      |                             |      |             |             |                |      |      |        |         |         | 17.00m       | 20.00m | SLOTTED   |          |

**General Remarks**  
Logging has been undertaken to provide an approximate volumetric percentage of the various constituents present.

# Rotary Open Hole Borehole Log

BOREHOLE REFERENCE  
**RH102**  
Sheet 1 of 2

|                              |                                   |                                |
|------------------------------|-----------------------------------|--------------------------------|
| Project Name: Ten Acres Lane | Client: NUVU Developments Ltd     | Date: 15/10/2020               |
| Location: Newton Heath       | Contractor: Geotron               | Co-ords: E387499.89 N400233.25 |
| Project No. : LD10385        | Drilling Equipment: Comacchio 205 | Level : 82.60m AoD             |
|                              |                                   | Final Depth: 19.50m            |

|           |                  |                   |          |             |
|-----------|------------------|-------------------|----------|-------------|
| Logged By | Checked By<br>JC | Approved By<br>MP | Bit Type | Core Barrel |
|-----------|------------------|-------------------|----------|-------------|

| Instal. / Backfill | Water Strikes | Depth (m) | Type / FI | Coring |     |     | Diameter Recovery (SPT) | Depth (m) | Level (m) | Legend | Stratum Description                                                    | Scale |
|--------------------|---------------|-----------|-----------|--------|-----|-----|-------------------------|-----------|-----------|--------|------------------------------------------------------------------------|-------|
|                    |               |           |           | TCR    | SCR | RQD |                         |           |           |        |                                                                        |       |
|                    |               |           |           |        |     |     |                         |           |           |        | Driller notes gravelly soil with cobble of bricks and concrete.<br>GMG |       |
|                    |               |           |           |        |     |     |                         |           |           |        |                                                                        | 1     |
|                    |               |           |           |        |     |     |                         |           |           |        |                                                                        | 2     |
|                    |               |           |           |        |     |     |                         |           |           |        |                                                                        | 3     |
|                    |               |           |           |        |     |     |                         |           |           |        |                                                                        | 4     |
|                    |               |           |           |        |     |     |                         |           |           |        |                                                                        | 5     |
|                    |               |           |           |        |     |     |                         |           |           |        |                                                                        | 6     |
|                    |               |           |           |        |     |     |                         |           |           |        |                                                                        | 7     |
|                    |               |           |           |        |     |     |                         |           |           |        |                                                                        | 8     |
|                    |               |           |           |        |     |     |                         |           |           |        |                                                                        | 9     |

| Hole Diameter |          | Casing Diameter |          | Chiselling |      |          |      | Inclination and Orientation |      |             |             | Drilling Flush |      |      |        |         |         | Installation    |                  |                  |          |
|---------------|----------|-----------------|----------|------------|------|----------|------|-----------------------------|------|-------------|-------------|----------------|------|------|--------|---------|---------|-----------------|------------------|------------------|----------|
| Base          | Diameter | Base            | Diameter | Top        | Base | Duration | Tool | Top                         | Base | Inclination | Orientation | Top            | Base | Type | Colour | Min (%) | Max (%) | Top             | Base             | Pipe Type        | Diameter |
|               |          |                 |          |            |      |          |      |                             |      |             |             |                |      |      |        |         |         | 0.00m<br>12.00m | 12.00m<br>13.50m | PLAIN<br>SLOTTED |          |

**General Remarks**  
Logging has been undertaken to provide an approximate volumetric percentage of the various constituents present.

# Rotary Open Hole Borehole Log

BOREHOLE REFERENCE  
**RH102**  
Sheet 2 of 2

|                              |                                   |                                |
|------------------------------|-----------------------------------|--------------------------------|
| Project Name: Ten Acres Lane | Client: NUVU Developments Ltd     | Date: 15/10/2020               |
| Location: Newton Heath       | Contractor: Geotron               | Co-ords: E387499.89 N400233.25 |
| Project No. : LD10385        | Drilling Equipment: Comacchio 205 | Level : 82.60m AoD             |
|                              |                                   | Final Depth: 19.50m            |

|           |                  |                   |          |             |
|-----------|------------------|-------------------|----------|-------------|
| Logged By | Checked By<br>JC | Approved By<br>MP | Bit Type | Core Barrel |
|-----------|------------------|-------------------|----------|-------------|

| Instal. / Backfill | Water Strikes | Depth (m) | Type / FI | Coring |     |     | Diameter Recovery (SPT) | Depth (m) | Level (m) | Legend | Stratum Description                                                    | Scale |
|--------------------|---------------|-----------|-----------|--------|-----|-----|-------------------------|-----------|-----------|--------|------------------------------------------------------------------------|-------|
|                    |               |           |           | TCR    | SCR | RQD |                         |           |           |        |                                                                        |       |
|                    |               |           |           |        |     |     |                         |           |           |        | Driller notes gravelly soil with cobble of bricks and concrete.<br>GMG | 10    |
|                    |               |           |           |        |     |     |                         |           |           |        |                                                                        | 11    |
|                    |               |           |           |        |     |     |                         | 12.00     | 70.60     |        | Driller notes GRAVELS.<br>GGT                                          | 12    |
|                    |               |           |           |        |     |     |                         |           |           |        |                                                                        | 13    |
|                    |               |           |           |        |     |     |                         | 13.50     | 69.10     |        | Driller notes gravelly CLAY.<br>CGT                                    | 14    |
|                    |               |           |           |        |     |     |                         | 14.50     | 68.10     |        | Driller notes brown CLAY.<br>CGT                                       | 15    |
|                    |               |           |           |        |     |     |                         |           |           |        |                                                                        | 16    |
|                    |               |           |           |        |     |     |                         |           |           |        |                                                                        | 17    |
|                    |               |           |           |        |     |     |                         |           |           |        |                                                                        | 18    |
|                    |               |           |           |        |     |     |                         |           |           |        |                                                                        | 19    |
|                    |               |           |           |        |     |     |                         | 19.50     | 63.10     |        | End of Borehole at 19.50m                                              |       |

| Hole Diameter |          | Casing Diameter |          | Chiselling |      |          |      | Inclination and Orientation |      |             |             | Drilling Flush |      |      |        |         |         | Installation |        |           |          |
|---------------|----------|-----------------|----------|------------|------|----------|------|-----------------------------|------|-------------|-------------|----------------|------|------|--------|---------|---------|--------------|--------|-----------|----------|
| Base          | Diameter | Base            | Diameter | Top        | Base | Duration | Tool | Top                         | Base | Inclination | Orientation | Top            | Base | Type | Colour | Min (%) | Max (%) | Top          | Base   | Pipe Type | Diameter |
|               |          |                 |          |            |      |          |      |                             |      |             |             |                |      |      |        |         |         | 0.00m        | 12.00m | PLAIN     |          |
|               |          |                 |          |            |      |          |      |                             |      |             |             |                |      |      |        |         |         | 12.00m       | 13.50m | SLOTTED   |          |

**General Remarks**  
Logging has been undertaken to provide an approximate volumetric percentage of the various constituents present.

# Rotary Open Hole Borehole Log

BOREHOLE REFERENCE  
**RH106**  
Sheet 1 of 5

|                              |                                   |                                |
|------------------------------|-----------------------------------|--------------------------------|
| Project Name: Ten Acres Lane | Client: NUVU Developments Ltd     | Date: 26/10/2020               |
| Location: Newton Heath       | Contractor: Geotron               | Co-ords: E387492.00 N400076.00 |
| Project No. : LD10385        | Drilling Equipment: Commachio 205 | Level : 79.56m AoD             |
| Logged By<br>ZH              | Checked By<br>JC                  | Approved By<br>MP              |
| Bit Type                     | Core Barrel                       |                                |

| Install. / Backfill | Water Strikes | Sample and In Situ Testing |      |         | Flush | Depth (m) | Level (m) | Legend | Stratum Description          | Scale |
|---------------------|---------------|----------------------------|------|---------|-------|-----------|-----------|--------|------------------------------|-------|
|                     |               | Depth (m)                  | Type | Results |       |           |           |        |                              |       |
|                     |               |                            |      |         |       |           |           |        | Driller notes CLAY.<br>CGT   |       |
|                     |               |                            |      |         |       |           |           |        |                              | 1     |
|                     |               |                            |      |         |       |           |           |        |                              | 2     |
|                     |               |                            |      |         |       |           |           |        |                              | 3     |
|                     |               |                            |      |         |       |           |           |        |                              | 4     |
|                     |               |                            |      |         |       |           |           |        |                              | 5     |
|                     |               |                            |      |         |       |           |           |        |                              | 6     |
|                     |               |                            |      |         |       |           |           |        |                              | 7     |
|                     |               |                            |      |         |       | 7.50      | 72.06     |        | Driller notes GRAVEL.<br>GGT | 8     |
|                     |               |                            |      |         |       |           |           |        |                              |       |
|                     |               |                            |      |         |       | 9.00      | 70.56     |        | Driller notes CLAY.<br>CGT   | 9     |
|                     |               |                            |      |         |       |           |           |        |                              |       |

| Hole Diameter |          | Casing Diameter |          | Chiselling |      |          |      | Inclination and Orientation |      |             |             | Drilling Flush |      |      |        |         |         | Installation |        |           |          |
|---------------|----------|-----------------|----------|------------|------|----------|------|-----------------------------|------|-------------|-------------|----------------|------|------|--------|---------|---------|--------------|--------|-----------|----------|
| Base          | Diameter | Base            | Diameter | Top        | Base | Duration | Tool | Top                         | Base | Inclination | Orientation | Top            | Base | Type | Colour | Min (%) | Max (%) | Top          | Base   | Pipe Type | Diameter |
|               |          |                 |          |            |      |          |      |                             |      |             |             |                |      |      |        |         |         | 0.00m        | 44.50m | PLAIN     |          |
|               |          |                 |          |            |      |          |      |                             |      |             |             |                |      |      |        |         |         | 44.50m       | 45.00m | SLOTTED   |          |

**General Remarks**  
Logging has been undertaken to provide an approximate volumetric percentage of the various constituents present.

# Rotary Open Hole Borehole Log

BOREHOLE REFERENCE  
**RH106**  
Sheet 2 of 5

|                              |                                   |                                |
|------------------------------|-----------------------------------|--------------------------------|
| Project Name: Ten Acres Lane | Client: NUVU Developments Ltd     | Date: 26/10/2020               |
| Location: Newton Heath       | Contractor: Geotron               | Co-ords: E387492.00 N400076.00 |
| Project No. : LD10385        | Drilling Equipment: Commachio 205 | Level : 79.56m AoD             |
| Logged By<br>ZH              | Checked By<br>JC                  | Approved By<br>MP              |
| Bit Type                     | Core Barrel                       |                                |

| Install. / Backfill | Water Strikes | Sample and In Situ Testing |      |         | Flush | Depth (m) | Level (m) | Legend | Stratum Description        | Scale |
|---------------------|---------------|----------------------------|------|---------|-------|-----------|-----------|--------|----------------------------|-------|
|                     |               | Depth (m)                  | Type | Results |       |           |           |        |                            |       |
|                     |               |                            |      |         |       |           |           |        | Driller notes CLAY.<br>CGT | 10    |
|                     |               |                            |      |         |       |           |           |        |                            | 11    |
|                     |               |                            |      |         |       |           |           |        |                            | 12    |
|                     |               |                            |      |         |       |           |           |        |                            | 13    |
|                     |               |                            |      |         |       |           |           |        |                            | 14    |
|                     |               |                            |      |         |       |           |           |        |                            | 15    |
|                     |               |                            |      |         |       |           |           |        |                            | 16    |
|                     |               |                            |      |         |       |           |           |        |                            | 17    |
|                     |               |                            |      |         |       |           |           |        |                            | 18    |
|                     |               |                            |      |         |       |           |           |        |                            | 19    |

| Hole Diameter |          | Casing Diameter |          | Chiselling |      |          |      | Inclination and Orientation |      |             |             | Drilling Flush |      |      |        |         |         | Installation    |                  |                  |          |
|---------------|----------|-----------------|----------|------------|------|----------|------|-----------------------------|------|-------------|-------------|----------------|------|------|--------|---------|---------|-----------------|------------------|------------------|----------|
| Base          | Diameter | Base            | Diameter | Top        | Base | Duration | Tool | Top                         | Base | Inclination | Orientation | Top            | Base | Type | Colour | Min (%) | Max (%) | Top             | Base             | Pipe Type        | Diameter |
|               |          |                 |          |            |      |          |      |                             |      |             |             |                |      |      |        |         |         | 0.00m<br>44.50m | 44.50m<br>45.00m | PLAIN<br>SLOTTED |          |

**General Remarks**  
Logging has been undertaken to provide an approximate volumetric percentage of the various constituents present.

# Rotary Open Hole Borehole Log

BOREHOLE REFERENCE  
**RH106**  
Sheet 3 of 5

|                              |                                   |                                |
|------------------------------|-----------------------------------|--------------------------------|
| Project Name: Ten Acres Lane | Client: NUVU Developments Ltd     | Date: 26/10/2020               |
| Location: Newton Heath       | Contractor: Geotron               | Co-ords: E387492.00 N400076.00 |
| Project No. : LD10385        | Drilling Equipment: Commachio 205 | Level : 79.56m AoD             |
| Logged By<br>ZH              | Checked By<br>JC                  | Approved By<br>MP              |
| Bit Type                     | Core Barrel                       |                                |

| Install. / Backfill | Water Strikes | Sample and In Situ Testing |      |         | Flush | Depth (m) | Level (m) | Legend | Stratum Description                                                                                                                                                                                             | Scale |
|---------------------|---------------|----------------------------|------|---------|-------|-----------|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|                     |               | Depth (m)                  | Type | Results |       |           |           |        |                                                                                                                                                                                                                 |       |
|                     |               | 22.00 – 22.80              | C    |         |       | 22.00     | 57.56     |        | Driller notes CLAY. CGT                                                                                                                                                                                         | 20    |
|                     |               | 22.80 – 24.50              | C    |         |       | 22.80     | 56.76     |        | Stiff to very stiff, brown, slightly sandy, slightly gravelly CLAY. Gravel is subangular to rounded of fine to coarse quartz, mudstone, shale, and sandstone. CGT                                               | 21    |
|                     |               | 24.50 – 25.50              | C    |         |       | 25.50     | 54.06     |        | Stiff, brown, slightly sandy, slightly gravelly CLAY. Gravel is subangular to rounded of fine to medium mudstone, sandstone, quartz and black igneous rock. CGT<br><i>23.50m - 25.50m : Becomes very stiff.</i> | 22    |
|                     |               |                            |      |         |       |           |           |        |                                                                                                                                                                                                                 | 23    |
|                     |               |                            |      |         |       |           |           |        |                                                                                                                                                                                                                 | 24    |
|                     |               |                            |      |         |       |           |           |        |                                                                                                                                                                                                                 | 25    |
|                     |               |                            |      |         |       |           |           |        |                                                                                                                                                                                                                 | 26    |
|                     |               |                            |      |         |       |           |           |        |                                                                                                                                                                                                                 | 27    |
|                     |               |                            |      |         |       |           |           |        |                                                                                                                                                                                                                 | 28    |
|                     |               |                            |      |         |       |           |           |        |                                                                                                                                                                                                                 | 29    |

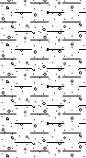
| Hole Diameter |          | Casing Diameter |          | Chiselling |      |          |      | Inclination and Orientation |      |             |             | Drilling Flush |      |      |        |         |         | Installation    |                  |                  |          |
|---------------|----------|-----------------|----------|------------|------|----------|------|-----------------------------|------|-------------|-------------|----------------|------|------|--------|---------|---------|-----------------|------------------|------------------|----------|
| Base          | Diameter | Base            | Diameter | Top        | Base | Duration | Tool | Top                         | Base | Inclination | Orientation | Top            | Base | Type | Colour | Min (%) | Max (%) | Top             | Base             | Pipe Type        | Diameter |
|               |          |                 |          |            |      |          |      |                             |      |             |             |                |      |      |        |         |         | 0.00m<br>44.50m | 44.50m<br>45.00m | PLAIN<br>SLOTTED |          |

**General Remarks**  
Logging has been undertaken to provide an approximate volumetric percentage of the various constituents present.

# Rotary Open Hole Borehole Log

BOREHOLE REFERENCE  
**RH106**  
Sheet 4 of 5

|                              |                                   |                                |
|------------------------------|-----------------------------------|--------------------------------|
| Project Name: Ten Acres Lane | Client: NUVU Developments Ltd     | Date: 26/10/2020               |
| Location: Newton Heath       | Contractor: Geotron               | Co-ords: E387492.00 N400076.00 |
| Project No. : LD10385        | Drilling Equipment: Commachio 205 | Level : 79.56m AoD             |
| Logged By<br>ZH              | Checked By<br>JC                  | Approved By<br>MP              |
| Bit Type                     | Core Barrel                       |                                |

| Install. / Backfill | Water Strikes | Sample and In Situ Testing |      |         | Flush | Depth (m) | Level (m) | Legend                                                                             | Stratum Description                       | Scale |
|---------------------|---------------|----------------------------|------|---------|-------|-----------|-----------|------------------------------------------------------------------------------------|-------------------------------------------|-------|
|                     |               | Depth (m)                  | Type | Results |       |           |           |                                                                                    |                                           |       |
|                     |               | 30.50 – 32.50              | C    |         |       | 30.50     | 49.06     |   | Driller notes CLAY.<br>CGT                | 30    |
|                     |               |                            |      |         |       | 30.90     | 48.66     |   | Firm to stiff, brown, clayey SILT.<br>CGT | 31    |
|                     |               |                            |      |         |       | 31.30     | 48.26     |   | Brown, very clayey, medium SAND.<br>GGT   | 31    |
|                     |               | 33.50 – 35.50              | C    |         |       |           |           |  | Driller notes sandy CLAY.<br>CGT          | 32    |
|                     |               |                            |      |         |       |           |           |                                                                                    |                                           | 33    |
|                     |               |                            |      |         |       |           |           |                                                                                    |                                           | 34    |
|                     |               |                            |      |         |       |           |           |                                                                                    |                                           | 35    |
|                     |               |                            |      |         |       |           |           |                                                                                    |                                           | 36    |
|                     |               |                            |      |         |       |           |           |                                                                                    |                                           | 37    |
|                     |               |                            |      |         |       |           |           |                                                                                    |                                           | 38    |
|                     |               |                            |      |         |       |           |           |                                                                                    |                                           | 39    |

| Hole Diameter |          | Casing Diameter |          | Chiselling |      |          |      | Inclination and Orientation |      |             |             | Drilling Flush |      |      |        |         |         | Installation |        |           |          |
|---------------|----------|-----------------|----------|------------|------|----------|------|-----------------------------|------|-------------|-------------|----------------|------|------|--------|---------|---------|--------------|--------|-----------|----------|
| Base          | Diameter | Base            | Diameter | Top        | Base | Duration | Tool | Top                         | Base | Inclination | Orientation | Top            | Base | Type | Colour | Min (%) | Max (%) | Top          | Base   | Pipe Type | Diameter |
|               |          |                 |          |            |      |          |      |                             |      |             |             |                |      |      |        |         |         | 0.00m        | 44.50m | PLAIN     |          |
|               |          |                 |          |            |      |          |      |                             |      |             |             |                |      |      |        |         |         | 44.50m       | 45.00m | SLOTTED   |          |

**General Remarks**  
Logging has been undertaken to provide an approximate volumetric percentage of the various constituents present.

# Rotary Open Hole Borehole Log

BOREHOLE REFERENCE  
**RH106**  
Sheet 5 of 5

|                              |                                   |                                |
|------------------------------|-----------------------------------|--------------------------------|
| Project Name: Ten Acres Lane | Client: NUVU Developments Ltd     | Date: 26/10/2020               |
| Location: Newton Heath       | Contractor: Geotron               | Co-ords: E387492.00 N400076.00 |
| Project No. : LD10385        | Drilling Equipment: Commachio 205 | Level : 79.56m AoD             |
| Logged By<br>ZH              | Checked By<br>JC                  | Approved By<br>MP              |
| Bit Type                     | Core Barrel                       |                                |

| Install. / Backfill | Water Strikes | Sample and In Situ Testing |      |         | Flush | Depth (m) | Level (m) | Legend | Stratum Description                                                                                                                                                                                                            | Scale |
|---------------------|---------------|----------------------------|------|---------|-------|-----------|-----------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|                     |               | Depth (m)                  | Type | Results |       |           |           |        |                                                                                                                                                                                                                                |       |
|                     |               | 40.00 – 41.50              | C    |         |       |           |           |        | Driller notes sandy CLAY.<br>CGT                                                                                                                                                                                               | 40    |
|                     |               | 41.50 – 43.00              | C    |         |       |           |           |        |                                                                                                                                                                                                                                | 41    |
|                     |               | 43.00 – 44.50              | C    |         |       | 43.00     | 36.56     |        | Medium strong to strong, subrounded to rounded COBBLES of coarse grained gritstone, greenish grey fine grained sandstone, yellowish brown medium to coarse grained sandstone, and reddish brown fine grained sandstone.<br>GGT | 43    |
|                     |               |                            |      |         |       | 44.50     | 35.06     |        | Driller notes SANDSTONE. Recovered as damp, reddish brown, slightly gravelly, fine to coarse SAND. Possibly weak, reddish brown, fine to coarse grained SANDSTONE with occasional pebbles.<br>CSF                              | 44    |
|                     |               |                            |      |         |       | 45.00     | 34.56     |        | End of Borehole at 45.00m                                                                                                                                                                                                      | 45    |
|                     |               |                            |      |         |       |           |           |        |                                                                                                                                                                                                                                | 46    |
|                     |               |                            |      |         |       |           |           |        |                                                                                                                                                                                                                                | 47    |
|                     |               |                            |      |         |       |           |           |        |                                                                                                                                                                                                                                | 48    |

| Hole Diameter |          | Casing Diameter |          | Chiselling |      |          |      | Inclination and Orientation |      |             |             | Drilling Flush |      |      |        |         |         | Installation |        |           |          |
|---------------|----------|-----------------|----------|------------|------|----------|------|-----------------------------|------|-------------|-------------|----------------|------|------|--------|---------|---------|--------------|--------|-----------|----------|
| Base          | Diameter | Base            | Diameter | Top        | Base | Duration | Tool | Top                         | Base | Inclination | Orientation | Top            | Base | Type | Colour | Min (%) | Max (%) | Top          | Base   | Pipe Type | Diameter |
|               |          |                 |          |            |      |          |      |                             |      |             |             |                |      |      |        |         |         | 0.00m        | 44.50m | PLAIN     |          |
|               |          |                 |          |            |      |          |      |                             |      |             |             |                |      |      |        |         |         | 44.50m       | 45.00m | SLOTTED   |          |

**General Remarks**  
Logging has been undertaken to provide an approximate volumetric percentage of the various constituents present.

# Rotary Cored Hole Borehole Log

BOREHOLE REFERENCE  
**RH201**  
Sheet 1 of 6

|                              |                                      |                                |
|------------------------------|--------------------------------------|--------------------------------|
| Project Name: Ten Acres Lane | Client: NUVU Developments Ltd        | Date: 13/04/2022 - 22/04/2022  |
| Location: Newton Heath       | Contractor: Geotron Ltd              | Co-ords: E387906.44 N400350.84 |
| Project No. : LD10385        | Drilling Equipment: Commachio GEO305 | Level : 86.10m AoD             |
| Logged By<br>LT & JP         | Checked By<br>JC                     | Approved By<br>MP              |
| Bit Type                     | Core Barrel                          |                                |

| Install. / Backfill | Water Strikes | Sample and In Situ Testing |      |         | Flush | Depth (m) | Level (m) | Legend | Stratum Description                                                                   | Scale |
|---------------------|---------------|----------------------------|------|---------|-------|-----------|-----------|--------|---------------------------------------------------------------------------------------|-------|
|                     |               | Depth (m)                  | Type | Results |       |           |           |        |                                                                                       |       |
|                     |               |                            |      |         |       | 1.20      | 84.90     |        | Driller notes MADE GROUND.<br>GMG                                                     | 1     |
|                     |               |                            |      |         |       |           |           |        | No recovery due to open hole techniques being used. Driller notes MADE GROUND.<br>GMG | 2     |
|                     |               |                            |      |         |       | 3.00      | 83.10     |        | No recovery due to open hole techniques being used. Driller notes CLAY.<br>CGT        | 3     |
|                     |               |                            |      |         |       |           |           |        |                                                                                       | 4     |
|                     |               |                            |      |         |       | 5.30      | 80.80     |        | No recovery due to open hole techniques being used. Driller notes dense SAND.<br>GGT  | 5     |
|                     |               |                            |      |         |       |           |           |        |                                                                                       | 6     |
|                     |               |                            |      |         |       |           |           |        |                                                                                       | 7     |
|                     |               |                            |      |         |       |           |           |        |                                                                                       | 8     |
|                     |               |                            |      |         |       |           |           |        |                                                                                       | 9     |

| Hole Diameter |          | Casing Diameter |          | Chiselling |        |          |      | Inclination and Orientation |      |             |             | Drilling Flush |      |      |        |         |         | Installation |        |           |          |
|---------------|----------|-----------------|----------|------------|--------|----------|------|-----------------------------|------|-------------|-------------|----------------|------|------|--------|---------|---------|--------------|--------|-----------|----------|
| Base          | Diameter | Base            | Diameter | Top        | Base   | Duration | Tool | Top                         | Base | Inclination | Orientation | Top            | Base | Type | Colour | Min (%) | Max (%) | Top          | Base   | Pipe Type | Diameter |
| 41.50m        | 146mm    | 5.30m           | 200mm    | 11.50m     | 16.00m |          |      |                             |      |             |             |                |      |      |        |         |         | 0.00m        | 39.50m | PLAIN     |          |
|               |          | 41.50m          | 146mm    |            |        |          |      |                             |      |             |             |                |      |      |        |         |         | 39.50m       | 41.50m | SLOTTED   |          |

## General Remarks

Inspection pit hand dug to 1.20m bgl, followed by rotary open hole drilling from 5.3m-10m through dense sands.  
Coring using 146mm wireline system (Geobore S) using air / mist flush.  
Approximate percentage by volume quantifiers as follows; rare (<5%), occasional (5-20%), frequent (20-40%) and abundant (>40%).  
Target depth achieved and depth to bedrock proven.

Log printed on 13/09/2022 at 13:09

# Rotary Cored Hole Borehole Log

BOREHOLE REFERENCE  
**RH201**  
Sheet 2 of 6

|                              |                                      |                                |
|------------------------------|--------------------------------------|--------------------------------|
| Project Name: Ten Acres Lane | Client: NUVU Developments Ltd        | Date: 13/04/2022 - 22/04/2022  |
| Location: Newton Heath       | Contractor: Geotron Ltd              | Co-ords: E387906.44 N400350.84 |
| Project No. : LD10385        | Drilling Equipment: Commachio GEO305 | Level : 86.10m AoD             |
|                              |                                      | Final Depth: 41.50m            |
| Logged By<br>LT & JP         | Checked By<br>JC                     | Approved By<br>MP              |
|                              | Bit Type                             | Core Barrel                    |

| Install. / Backfill | Water Strikes | Sample and In Situ Testing |      |         | Flush | Depth (m) | Level (m) | Legend | Stratum Description                                                                                                                     | Scale |
|---------------------|---------------|----------------------------|------|---------|-------|-----------|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------|-------|
|                     |               | Depth (m)                  | Type | Results |       |           |           |        |                                                                                                                                         |       |
|                     |               |                            |      |         |       | 10.00     | 76.10     |        | No recovery due to open hole techniques being used. Driller notes dense SAND.<br>GGT<br><i>See Next Page for Geological Information</i> | 10    |
|                     |               |                            |      |         |       |           |           |        |                                                                                                                                         | 11    |
|                     |               |                            |      |         |       |           |           |        | <i>See Next Page for Geological Information</i>                                                                                         |       |
|                     |               |                            |      |         |       |           |           |        | <i>See Next Page for Geological Information</i>                                                                                         | 12    |
|                     |               |                            |      |         |       |           |           |        |                                                                                                                                         |       |
|                     |               |                            |      |         |       |           |           |        | <i>See Next Page for Geological Information</i>                                                                                         | 13    |
|                     |               |                            |      |         |       |           |           |        |                                                                                                                                         |       |
|                     |               |                            |      |         |       |           |           |        | <i>See Next Page for Geological Information</i>                                                                                         | 14    |
|                     |               |                            |      |         |       |           |           |        |                                                                                                                                         |       |
|                     |               |                            |      |         |       |           |           |        | <i>See Next Page for Geological Information</i>                                                                                         | 15    |
|                     |               |                            |      |         |       |           |           |        | <i>See Next Page for Geological Information</i>                                                                                         |       |
|                     |               |                            |      |         |       |           |           |        | <i>See Next Page for Geological Information</i>                                                                                         | 16    |
|                     |               |                            |      |         |       |           |           |        | <i>See Next Page for Geological Information</i>                                                                                         |       |
|                     |               |                            |      |         |       |           |           |        | <i>See Next Page for Geological Information</i>                                                                                         | 17    |
|                     |               |                            |      |         |       |           |           |        |                                                                                                                                         |       |
|                     |               |                            |      |         |       |           |           |        | <i>See Next Page for Geological Information</i>                                                                                         | 18    |
|                     |               |                            |      |         |       |           |           |        |                                                                                                                                         |       |
|                     |               |                            |      |         |       |           |           |        | <i>See Next Page for Geological Information</i>                                                                                         | 19    |
|                     |               |                            |      |         |       |           |           |        |                                                                                                                                         |       |

| Hole Diameter |          | Casing Diameter |          | Chiselling |        |          |      | Inclination and Orientation |      |             |             | Drilling Flush |      |      |        |         |         | Installation |        |           |          |
|---------------|----------|-----------------|----------|------------|--------|----------|------|-----------------------------|------|-------------|-------------|----------------|------|------|--------|---------|---------|--------------|--------|-----------|----------|
| Base          | Diameter | Base            | Diameter | Top        | Base   | Duration | Tool | Top                         | Base | Inclination | Orientation | Top            | Base | Type | Colour | Min (%) | Max (%) | Top          | Base   | Pipe Type | Diameter |
| 41.50m        | 146mm    | 5.30m           | 200mm    | 11.50m     | 16.00m |          |      |                             |      |             |             |                |      |      |        |         |         | 0.00m        | 39.50m | PLAIN     |          |
|               |          | 41.50m          | 146mm    |            |        |          |      |                             |      |             |             |                |      |      |        |         |         | 39.50m       | 41.50m | SLOTTED   |          |
|               |          |                 |          |            |        |          |      |                             |      |             |             |                |      |      |        |         |         |              |        |           |          |

**General Remarks**  
 Inspection pit hand dug to 1.20m bgl, followed by rotary open hole drilling from 5.3m-10m through dense sands.  
 Coring using 146mm wireline system (Geobore S) using air / mist flush.  
 Approximate percentage by volume quantifiers as follows; rare (<5%), occasional (5-20%), frequent (20-40%) and abundant (>40%).  
 Target depth achieved and depth to bedrock proven.  
**Log printed on 13/09/2022 at 13:09**

# Rotary Cored Hole Borehole Log

BOREHOLE REFERENCE  
**RH201**  
Sheet 3 of 6

|                              |                                      |                                           |
|------------------------------|--------------------------------------|-------------------------------------------|
| Project Name: Ten Acres Lane | Client: NUVU Developments Ltd        | Date: 13/04/2022 - 22/04/2022             |
| Location: Newton Heath       | Contractor: Geotron Ltd              | Co-ords: E387906.44 N400350.84            |
| Project No. : LD10385        | Drilling Equipment: Commachio GEO305 | Level : 86.10m AoD<br>Final Depth: 41.50m |

|                      |                  |                   |          |             |
|----------------------|------------------|-------------------|----------|-------------|
| Logged By<br>LT & JP | Checked By<br>JC | Approved By<br>MP | Bit Type | Core Barrel |
|----------------------|------------------|-------------------|----------|-------------|

| Install. / Backfill | Water Strikes | Depth (m)     | Type / FI | Coring |     |     | Diameter Recovery (SPT) | Depth (m) | Level (m) | Legend | Stratum Description                                                                                                                                                                            | Scale |
|---------------------|---------------|---------------|-----------|--------|-----|-----|-------------------------|-----------|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|                     |               |               |           | TCR    | SCR | RQD |                         |           |           |        |                                                                                                                                                                                                |       |
|                     |               | 10.00 - 11.50 |           | 0      | 0   |     | 109mm                   |           |           |        | See Previous Page for Geological Information                                                                                                                                                   | 10    |
|                     |               |               |           |        |     |     |                         | 11.50     | 74.60     |        | No recovery. Core loss presumed due to granular materials. Driller notes SAND with occasional cobbles. GGT                                                                                     | 11    |
|                     |               | 11.50 - 13.00 |           | 86     | 0   |     | 109mm                   | 11.71     | 74.39     |        | Zone of core loss. Core loss presumed due to granular materials. Driller notes SAND with occasional cobbles. GGT<br>Light brown, silty, clayey, fine SAND. GGT                                 | 12    |
|                     |               | 13.00 - 14.50 |           | 0      | 0   |     | 109mm                   | 13.00     | 73.10     |        | No recovery. Core loss presumed due to granular materials. Driller notes SAND with occasional cobbles. GGT                                                                                     | 13    |
|                     |               | 14.50 - 16.00 |           | 44     | 13  |     | 109mm                   | 14.50     | 71.60     |        | Zone of core loss. Core loss presumed due to softer and / or more granular materials. Driller notes sandy CLAY. CGT                                                                            | 14    |
|                     |               | 15.80 - 16.00 | CS        |        |     |     |                         | 15.34     | 70.76     |        | Partial recovery. Recovered material comprises light brown, silty, clayey, fine to medium SAND. CGT                                                                                            | 15    |
|                     |               | 16.00 - 17.50 |           | 81     | 81  |     | 109mm                   | 15.81     | 70.29     |        | Partial recovery. Recovered material comprises firm, laminated, brown CLAY with occasional thin laminations of brown, silty, fine sand. CGT                                                    | 16    |
|                     |               |               |           |        |     |     |                         | 16.00     | 70.10     |        | Very stiff, laminated, brown, slightly sandy CLAY with occasional thin laminations of brown, silty, fine sand. CGT                                                                             | 17    |
|                     |               | 17.50 - 19.00 |           | 100    | 15  |     | 109mm                   | 17.22     | 68.88     |        | Zone of core loss. Core loss presumed due to softer and / or more granular materials. Driller notes CLAY. CGT                                                                                  | 18    |
|                     |               |               |           |        |     |     |                         | 17.50     | 68.60     |        | Very stiff, laminated, brown, slightly sandy CLAY with occasional thin laminations of brown, silty, fine sand. CGT                                                                             | 19    |
|                     |               |               |           |        |     |     |                         | 17.73     | 68.37     |        | Brown, silty, clayey, fine SAND. GGT                                                                                                                                                           |       |
|                     |               |               |           |        |     |     |                         | 19.14     | 66.96     |        | Very stiff, brown, slightly sandy, slightly gravelly CLAY. Gravel is subangular to subrounded of fine to medium sandstone, mudstone and mixed natural lithologies. Sand is fine to medium. CGT |       |

| Hole Diameter |          | Casing Diameter |          | Chiselling |        |          |      | Inclination and Orientation |      |             |             | Drilling Flush |      |      |        |         |         | Installation |        |           |          |
|---------------|----------|-----------------|----------|------------|--------|----------|------|-----------------------------|------|-------------|-------------|----------------|------|------|--------|---------|---------|--------------|--------|-----------|----------|
| Base          | Diameter | Base            | Diameter | Top        | Base   | Duration | Tool | Top                         | Base | Inclination | Orientation | Top            | Base | Type | Colour | Min (%) | Max (%) | Top          | Base   | Pipe Type | Diameter |
| 41.50m        | 146mm    | 5.30m           | 200mm    | 11.50m     | 16.00m |          |      |                             |      |             |             |                |      |      |        |         |         | 0.00m        | 39.50m | PLAIN     |          |
|               |          | 41.50m          | 146mm    |            |        |          |      |                             |      |             |             |                |      |      |        |         |         | 39.50m       | 41.50m | SLOTTED   |          |

**General Remarks**  
 Inspection pit hand dug to 1.20m bgl, followed by rotary open hole drilling from 5.3m-10m through dense sands.  
 Coring using 146mm wireline system (Geobore S) using air / mist flush.  
 Approximate percentage by volume quantifiers as follows; rare (<5%), occasional (5-20%), frequent (20-40%) and abundant (>40%).  
 Target depth achieved and depth to bedrock proven.  
**Log printed on 13/09/2022 at 13:09**

# Rotary Cored Hole Borehole Log

BOREHOLE REFERENCE  
**RH201**  
Sheet 4 of 6

|                              |                                      |                                |
|------------------------------|--------------------------------------|--------------------------------|
| Project Name: Ten Acres Lane | Client: NUVU Developments Ltd        | Date: 13/04/2022 - 22/04/2022  |
| Location: Newton Heath       | Contractor: Geotron Ltd              | Co-ords: E387906.44 N400350.84 |
| Project No. : LD10385        | Drilling Equipment: Commachio GEO305 | Level : 86.10m AoD             |
|                              |                                      | Final Depth: 41.50m            |

|                      |                  |                   |          |             |
|----------------------|------------------|-------------------|----------|-------------|
| Logged By<br>LT & JP | Checked By<br>JC | Approved By<br>MP | Bit Type | Core Barrel |
|----------------------|------------------|-------------------|----------|-------------|

| Instal. / Backfill | Water Strikes | Depth (m)     | Type / FI | Coring |     |     | Diameter Recovery (SPT) | Depth (m) | Level (m) | Legend | Stratum Description                                                                                                                                                                                                                                                                                                                    | Scale |
|--------------------|---------------|---------------|-----------|--------|-----|-----|-------------------------|-----------|-----------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|                    |               |               |           | TCR    | SCR | RQD |                         |           |           |        |                                                                                                                                                                                                                                                                                                                                        |       |
|                    |               | 19.00 - 20.50 |           | 99     | 89  |     | 109mm                   | 20.50     | 65.60     |        | Very stiff, brown, slightly sandy, slightly gravelly CLAY. Gravel is subangular to subrounded of fine to medium sandstone, mudstone and mixed natural lithologies. Sand is fine to medium. CGT                                                                                                                                         | 20    |
|                    |               | 20.50 - 22.00 |           | 29     | 24  |     | 109mm                   | 22.00     | 64.10     |        | Partial recovery. Core loss presumed due to softer and / or more granular materials. Driller notes sandy CLAY. Recovered core comprises very stiff, brown, slightly sandy, slightly gravelly CLAY. Gravel is subangular to subrounded of fine to medium sandstone, mudstone and mixed natural lithologies. Sand is fine to medium. CGT | 21    |
|                    |               | 22.00 - 23.50 |           | 39     | 25  |     | 109mm                   | 22.21     | 63.89     |        | Partial recovery. Recovered material comprises light brown, silty, clayey, fine to medium SAND. CGT                                                                                                                                                                                                                                    | 22    |
|                    |               |               |           |        |     |     |                         | 22.58     | 63.52     |        | Partial recovery. Recovered core comprises very stiff, brown, slightly sandy, slightly gravelly CLAY. Gravel is subangular to subrounded of fine to medium mixed natural lithologies, including sandstone and mudstone. Sand is fine to medium. CGT                                                                                    | 23    |
|                    |               | 23.50 - 25.00 |           | 41     | 41  |     | 109mm                   | 23.50     | 62.60     |        | Zone of core loss. Core loss presumed due to softer and / or more granular materials. Driller notes sandy CLAY. CGT                                                                                                                                                                                                                    | 24    |
|                    |               |               |           |        |     |     |                         | 25.00     | 61.10     |        | Partial recovery. Core loss presumed due to softer and / or more granular material. Recovered core comprises very stiff, brown, slightly sandy, slightly gravelly CLAY. Gravel is subangular to subrounded of fine to medium mixed natural lithologies, including sandstone and mudstone. Sand is fine to medium. CGT                  | 25    |
|                    |               | 25.00 - 26.50 |           | 100    | 50  |     | 109mm                   | 25.55     | 60.55     |        | Stiff, brown, slightly sandy, slightly gravelly CLAY. Gravel is subangular to rounded of fine to medium mixed natural lithologies. CGT                                                                                                                                                                                                 | 26    |
|                    |               |               |           |        |     |     |                         | 25.75     | 60.35     |        | Brown, slightly gravelly, clayey SAND. Gravel is subangular to rounded of fine to coarse mixed natural lithologies. GGT                                                                                                                                                                                                                | 27    |
|                    |               | 26.50 - 28.00 |           | 100    | 100 |     | 109mm                   |           |           |        | Firm to very stiff, brown, slightly sandy, slightly gravelly CLAY. Gravel is subrounded to rounded of fine to coarse mudstone and mixed natural lithologies. CGT                                                                                                                                                                       | 28    |
|                    |               |               |           |        |     |     |                         |           |           |        | 25.80m - 25.88m : A single sandstone cobble at 28.80m.                                                                                                                                                                                                                                                                                 | 29    |
|                    |               | 28.00 - 29.50 |           | 100    | 100 |     | 109mm                   | 28.50     | 57.60     |        | Light brown SAND. GGT                                                                                                                                                                                                                                                                                                                  |       |

| Hole Diameter |          | Casing Diameter |          | Chiselling |        |          |      | Inclination and Orientation |      |             |             | Drilling Flush |      |      |        |         |         | Installation    |                  |                  |          |
|---------------|----------|-----------------|----------|------------|--------|----------|------|-----------------------------|------|-------------|-------------|----------------|------|------|--------|---------|---------|-----------------|------------------|------------------|----------|
| Base          | Diameter | Base            | Diameter | Top        | Base   | Duration | Tool | Top                         | Base | Inclination | Orientation | Top            | Base | Type | Colour | Min (%) | Max (%) | Top             | Base             | Pipe Type        | Diameter |
| 41.50m        | 146mm    | 41.50m          | 146mm    | 11.50m     | 16.00m |          |      |                             |      |             |             |                |      |      |        |         |         | 0.00m<br>39.50m | 39.50m<br>41.50m | PLAIN<br>SLOTTED |          |
|               |          |                 |          |            |        |          |      |                             |      |             |             |                |      |      |        |         |         |                 |                  |                  |          |

**General Remarks**  
 Inspection pit hand dug to 1.20m bgl, followed by rotary open hole drilling from 5.3m-10m through dense sands.  
 Coring using 146mm wireline system (Geobore S) using air / mist flush.  
 Approximate percentage by volume quantifiers as follows; rare (<5%), occasional (5-20%), frequent (20-40%) and abundant (>40%).  
 Target depth achieved and depth to bedrock proven.

Log printed on 13/09/2022 at 13:09

# Rotary Cored Hole Borehole Log

BOREHOLE REFERENCE  
**RH201**  
Sheet 5 of 6

|                              |                                      |                                |
|------------------------------|--------------------------------------|--------------------------------|
| Project Name: Ten Acres Lane | Client: NUVU Developments Ltd        | Date: 13/04/2022 - 22/04/2022  |
| Location: Newton Heath       | Contractor: Geotron Ltd              | Co-ords: E387906.44 N400350.84 |
| Project No. : LD10385        | Drilling Equipment: Commachio GEO305 | Level : 86.10m AoD             |
|                              |                                      | Final Depth: 41.50m            |

|                      |                  |                   |          |             |
|----------------------|------------------|-------------------|----------|-------------|
| Logged By<br>LT & JP | Checked By<br>JC | Approved By<br>MP | Bit Type | Core Barrel |
|----------------------|------------------|-------------------|----------|-------------|

| Install. / Backfill | Water Strikes | Depth (m)     | Type / FI | Coring |     |     | Diameter Recovery (SPT) | Depth (m) | Level (m) | Legend | Stratum Description                                                                                                                                                                                                                                                            | Scale |
|---------------------|---------------|---------------|-----------|--------|-----|-----|-------------------------|-----------|-----------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|                     |               |               |           | TCR    | SCR | RQD |                         |           |           |        |                                                                                                                                                                                                                                                                                |       |
|                     |               | 29.50 - 31.00 |           | 83     | 50  |     | 109mm                   | 29.95     | 56.15     |        | Light brown SAND. GGT                                                                                                                                                                                                                                                          | 30    |
|                     |               |               |           |        |     |     |                         | 30.70     | 55.40     |        | Firm to stiff, brown, slightly sandy, slightly gravelly CLAY. Gravel is subangular to rounded of fine to coarse mixed natural lithologies. CGT                                                                                                                                 |       |
|                     |               |               |           |        |     |     |                         | 30.92     | 55.18     |        | Zone of core loss. Core loss presumed to be due to softer and / or more granular materials. Driller notes very dense clay. CGT                                                                                                                                                 | 31    |
|                     |               | 31.00 - 32.50 |           | 100    | 100 |     | 109mm                   |           |           |        | Firm to stiff, brown, slightly sandy, slightly gravelly CLAY. Gravel is subangular to rounded of fine to coarse mixed natural lithologies. CGT                                                                                                                                 | 32    |
|                     |               | 32.50 - 34.00 |           | 100    | 93  |     | 109mm                   | 32.50     | 53.60     |        | Firm to stiff, laminated, brown, slightly sandy, slightly gravelly CLAY with occasional thin laminations of brown, fine sand. Gravel is subangular to rounded of fine to coarse mixed natural lithologies. CGT                                                                 | 33    |
|                     |               | 34.00 - 35.50 |           | 9      | 9   |     | 109mm                   | 34.00     | 52.10     |        | Minimal recovery. Core loss presumed due to softer and / or more granular material. Recovered core comprises stiff, laminated, brown, slightly sandy CLAY with occasional thin laminations of silty fine sand. CGT                                                             | 34    |
|                     |               | 35.50 - 37.00 |           | 0      | 0   |     | 109mm                   | 35.50     | 50.60     |        | No recovery. Core loss presumed due to granular materials. Driller notes SAND. GGT                                                                                                                                                                                             | 36    |
|                     |               | 37.00 - 38.50 |           | 65     | 7   |     | 109mm                   | 37.00     | 49.10     |        | Recovered material is brown, silty, fine to medium SAND with occasional cobbles. GGT                                                                                                                                                                                           | 37    |
|                     |               |               |           |        |     |     |                         | 38.50     | 47.60     |        | Partial recovery. Core loss presumed due to weaker and / or more weathered materials. Recovered core comprises extremely weak, reddish brown, fine to medium grained SANDSTONE. Discontinuities are very close to medium spaced planar, smooth with occasional sand infill. CF | 39    |

| Hole Diameter |          | Casing Diameter |          | Chiselling |        |          |      | Inclination and Orientation |      |             |             | Drilling Flush |      |      |        |         |         | Installation |        |           |          |
|---------------|----------|-----------------|----------|------------|--------|----------|------|-----------------------------|------|-------------|-------------|----------------|------|------|--------|---------|---------|--------------|--------|-----------|----------|
| Base          | Diameter | Base            | Diameter | Top        | Base   | Duration | Tool | Top                         | Base | Inclination | Orientation | Top            | Base | Type | Colour | Min (%) | Max (%) | Top          | Base   | Pipe Type | Diameter |
| 41.50m        | 146mm    | 5.30m           | 200mm    | 11.50m     | 16.00m |          |      |                             |      |             |             |                |      |      |        |         |         | 0.00m        | 39.50m | PLAIN     |          |
|               |          | 41.50m          | 146mm    |            |        |          |      |                             |      |             |             |                |      |      |        |         |         | 39.50m       | 41.50m | SLOTTED   |          |

## General Remarks

Inspection pit hand dug to 1.20m bgl, followed by rotary open hole drilling from 5.3m-10m through dense sands.

Coring using 146mm wireline system (Geobore S) using air / mist flush.

Approximate percentage by volume quantifiers as follows; rare (<5%), occasional (5-20%), frequent (20-40%) and abundant (>40%).

Target depth achieved and depth to bedrock proven.

Log printed on 13/09/2022 at 13:09

# Rotary Cored Hole Borehole Log

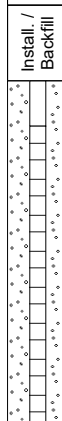
BOREHOLE REFERENCE

**RH201**

Sheet 6 of 6

|                              |                                      |                                |
|------------------------------|--------------------------------------|--------------------------------|
| Project Name: Ten Acres Lane | Client: NUVU Developments Ltd        | Date: 13/04/2022 - 22/04/2022  |
| Location: Newton Heath       | Contractor: Geotron Ltd              | Co-ords: E387906.44 N400350.84 |
| Project No. : LD10385        | Drilling Equipment: Commachio GEO305 | Level : 86.10m AoD             |
|                              |                                      | Final Depth: 41.50m            |

|                      |                  |                   |          |             |
|----------------------|------------------|-------------------|----------|-------------|
| Logged By<br>LT & JP | Checked By<br>JC | Approved By<br>MP | Bit Type | Core Barrel |
|----------------------|------------------|-------------------|----------|-------------|

| Instali. /<br>Backfill                                                            | Water<br>Strikes | Depth<br>(m)  | Type<br>/ FI | Coring |     |     | Diameter<br>Recovery<br>(SPT) | Depth<br>(m) | Level<br>(m) | Legend | Stratum Description                                                                                                                                                                                                                                                            | Scale |
|-----------------------------------------------------------------------------------|------------------|---------------|--------------|--------|-----|-----|-------------------------------|--------------|--------------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|                                                                                   |                  |               |              | TCR    | SCR | RQD |                               |              |              |        |                                                                                                                                                                                                                                                                                |       |
|  |                  | 38.50 - 40.00 |              | 49     | 45  |     | 109mm                         | 40.00        | 46.10        |        | Partial recovery. Core loss presumed due to weaker and / or more weathered materials. Recovered core comprises extremely weak, reddish brown, fine to medium grained SANDSTONE. Discontinuities are very close to medium spaced planar, smooth with occasional sand infill. CF | 40    |
|                                                                                   |                  | 40.00 - 41.50 |              | 99     | 85  |     | 109mm                         | 41.28        | 44.82        |        | Extremely weak, reddish brown, fine to medium grained SANDSTONE. Discontinuities are very close to medium spaced planar, smooth with occasional sand infill. CGT                                                                                                               | 41    |
|                                                                                   |                  |               |              |        |     |     |                               | 41.50        | 44.60        |        | Recovered as reddish brown, very sandy, angular to subangular, fine to coarse GRAVEL of extremely weak sandstone. Possibly extremely weak, reddish brown, fine to medium grained sandstone. CGT                                                                                | 42    |
|                                                                                   |                  |               |              |        |     |     |                               |              |              |        | End of Borehole at 41.50m                                                                                                                                                                                                                                                      | 42    |
|                                                                                   |                  |               |              |        |     |     |                               |              |              |        |                                                                                                                                                                                                                                                                                | 43    |
|                                                                                   |                  |               |              |        |     |     |                               |              |              |        |                                                                                                                                                                                                                                                                                | 44    |
|                                                                                   |                  |               |              |        |     |     |                               |              |              |        |                                                                                                                                                                                                                                                                                | 45    |
|                                                                                   |                  |               |              |        |     |     |                               |              |              |        |                                                                                                                                                                                                                                                                                | 46    |
|                                                                                   |                  |               |              |        |     |     |                               |              |              |        |                                                                                                                                                                                                                                                                                | 47    |
|                                                                                   |                  |               |              |        |     |     |                               |              |              |        |                                                                                                                                                                                                                                                                                | 48    |

| Hole Diameter |          | Casing Diameter |          | Chiselling |        |          |      | Inclination and Orientation |      |             |             | Drilling Flush |      |      |        |         |         | Installation |        |           |          |
|---------------|----------|-----------------|----------|------------|--------|----------|------|-----------------------------|------|-------------|-------------|----------------|------|------|--------|---------|---------|--------------|--------|-----------|----------|
| Base          | Diameter | Base            | Diameter | Top        | Base   | Duration | Tool | Top                         | Base | Inclination | Orientation | Top            | Base | Type | Colour | Min (%) | Max (%) | Top          | Base   | Pipe Type | Diameter |
| 41.50m        | 146mm    | 5.30m           | 200mm    | 11.50m     | 16.00m |          |      |                             |      |             |             |                |      |      |        |         |         | 0.00m        | 39.50m | PLAIN     |          |
|               |          | 41.50m          | 146mm    |            |        |          |      |                             |      |             |             |                |      |      |        |         |         | 39.50m       | 41.50m | SLOTTED   |          |

## General Remarks

Inspection pit hand dug to 1.20m bgl, followed by rotary open hole drilling from 5.3m-10m through dense sands.

Coring using 146mm wireline system (Geobore S) using air / mist flush.

Approximate percentage by volume quantifiers as follows; rare (&lt;5%), occasional (5-20%), frequent (20-40%) and abundant (&gt;40%).

Target depth achieved and depth to bedrock proven.

Log printed on 13/09/2022 at 13:09

# Cable Percussive Borehole Log

BOREHOLE REFERENCE  
**RH202**  
Sheet 1 of 7

|                              |                  |                                                  |                       |                                |                       |
|------------------------------|------------------|--------------------------------------------------|-----------------------|--------------------------------|-----------------------|
| Project Name: Ten Acres Lane |                  | Client: NUVU Developments Ltd                    |                       | Date: 21/03/2022 - 01/04/2022  |                       |
| Location: Newton Heath       |                  | Contractor: Geotron Ltd                          |                       | Co-ords: E387609.49 N400317.41 |                       |
| Project No. : LD10385        |                  | Drilling Equipment: Commachio GEO305 +Dando 2500 |                       | Level : 84.87m AoD             |                       |
| Logged By<br>JP+MS           | Checked By<br>JC | Approved By<br>MP                                | SPT Energy Ratio<br>% |                                | Final Depth<br>50.00m |

| Install. / Backfill | Water Strikes | Sample and In Situ Testing |      |         | Depth (m) | Level (m) | Legend | Stratum Description                                                                                                                                                                                                                                                                                                          | Scale |
|---------------------|---------------|----------------------------|------|---------|-----------|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|                     |               | Depth (m)                  | Type | Results |           |           |        |                                                                                                                                                                                                                                                                                                                              |       |
|                     |               |                            |      |         | 0.50      | 84.37     |        | Recovered as brown to reddish brown, mottled red, brown and cream, very sandy, very clayey GRAVEL with occasional cobble sized fragments of red brick, plasterboard and metal. Gravel is subangular to rounded of fine to coarse red brick, sandstone, mudstone, timber and plastic. Rare metal wire and metal bolts.<br>GMG | 1     |
|                     |               |                            |      |         | 1.20      | 83.67     |        | Driller notes soil with bricks and other made ground FILL.<br>DW                                                                                                                                                                                                                                                             |       |
|                     |               |                            |      |         | 1.50      | 83.37     |        | Driller notes black ash FILL with large and small red bricks.<br>CW                                                                                                                                                                                                                                                          | 2     |
|                     |               |                            |      |         | 2.00      | 82.87     |        | Recovered as brown to reddish brown, mottled white, green and blue, very sandy, very clayey GRAVEL with occasional cobble sized fragments of red brick. Gravel is angular to subrounded of fine to coarse red brick, mudstone, sandstone, plastic and timber. Frequent plastic bag fragments and fibre glass tape.<br>GMG    |       |
|                     |               |                            |      |         | 3.00      | 81.87     |        | Driller notes black ash FILL with large and small red bricks.<br>CW                                                                                                                                                                                                                                                          | 3     |
|                     |               |                            |      |         |           |           |        | Driller notes black sandy ash FILL with bricks<br>CW                                                                                                                                                                                                                                                                         |       |
|                     |               |                            |      |         | 5.00      | 79.87     |        | Driller notes CONCRETE obstruction.<br>CONC                                                                                                                                                                                                                                                                                  | 5     |
|                     |               |                            |      |         | 6.00      | 78.87     |        | Driller notes black clay / ash FILL.<br>CW                                                                                                                                                                                                                                                                                   |       |
|                     |               |                            |      |         | 7.00      | 77.87     |        | Driller notes black CLAY / ASH with concrete and bricks.<br>CW                                                                                                                                                                                                                                                               | 7     |
|                     |               |                            |      |         | 8.00      | 76.87     |        | Driller notes crushed brick and concrete with larger fragments of brick and concrete.<br>DW                                                                                                                                                                                                                                  |       |
|                     |               |                            |      |         |           |           |        |                                                                                                                                                                                                                                                                                                                              | 9     |

| Hole Diameter    |                | Casing Diameter  |                | Chiselling               |                           |                         |      | Inclination and Orientation |      |             |             | Installation    |                  |                  |          |
|------------------|----------------|------------------|----------------|--------------------------|---------------------------|-------------------------|------|-----------------------------|------|-------------|-------------|-----------------|------------------|------------------|----------|
| Depth Base       | Diameter       | Depth Base       | Diameter       | Depth Top                | Depth Base                | Duration                | Tool | Top                         | Base | Inclination | Orientation | Top             | Base             | Pipe Type        | Diameter |
| 11.50m<br>50.00m | 200mm<br>146mm | 11.50m<br>50.00m | 200mm<br>146mm | 5.00m<br>9.50m<br>38.00m | 6.00m<br>10.50m<br>41.00m | 01:00<br>01:30<br>02:30 |      |                             |      |             |             | 0.00m<br>46.00m | 46.00m<br>50.00m | PLAIN<br>SLOTTED |          |

Remarks

Inspection pit hand dug to 1.20m bgl.

Coring using 146mm wireline system (Geobore S) using air / mist flush.

Approximate percentage by volume quantifiers as follows; rare (<5%), occasional (5-20%), frequent (20-40%) and abundant (>40%).

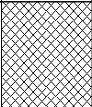
Target depth achieved and depth to bedrock proven.

Log printed on 13/09/2022 at 13:09

# Cable Percussive Borehole Log

BOREHOLE REFERENCE  
**RH202**  
Sheet 2 of 7

|                              |                  |                                                  |                       |                                |                       |
|------------------------------|------------------|--------------------------------------------------|-----------------------|--------------------------------|-----------------------|
| Project Name: Ten Acres Lane |                  | Client: NUVU Developments Ltd                    |                       | Date: 21/03/2022 - 01/04/2022  |                       |
| Location: Newton Heath       |                  | Contractor: Geotron Ltd                          |                       | Co-ords: E387609.49 N400317.41 |                       |
| Project No. : LD10385        |                  | Drilling Equipment: Commachio GEO305 +Dando 2500 |                       | Level : 84.87m AoD             |                       |
| Logged By<br>JP+MS           | Checked By<br>JC | Approved By<br>MP                                | SPT Energy Ratio<br>% |                                | Final Depth<br>50.00m |

| Instal. / Backfill | Water Strikes | Sample and In Situ Testing |      |         | Depth (m) | Level (m) | Legend                                                                              | Stratum Description                                                                         | Scale |
|--------------------|---------------|----------------------------|------|---------|-----------|-----------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-------|
|                    |               | Depth (m)                  | Type | Results |           |           |                                                                                     |                                                                                             |       |
|                    |               |                            |      |         | 10.50     | 74.37     |    | Driller notes crushed brick and concrete with larger fragments of brick and concrete.<br>DW | 10    |
|                    |               |                            |      |         |           |           |    | See Next Page for Geological Information                                                    |       |
|                    |               |                            |      |         |           |           |    | See Next Page for Geological Information                                                    | 11    |
|                    |               |                            |      |         |           |           |    | See Next Page for Geological Information                                                    |       |
|                    |               |                            |      |         |           |           |    | See Next Page for Geological Information                                                    | 12    |
|                    |               |                            |      |         |           |           |    | See Next Page for Geological Information                                                    |       |
|                    |               |                            |      |         |           |           |    | See Next Page for Geological Information                                                    | 13    |
|                    |               |                            |      |         |           |           |    | See Next Page for Geological Information                                                    |       |
|                    |               |                            |      |         |           |           |   | See Next Page for Geological Information                                                    | 14    |
|                    |               |                            |      |         |           |           |  | See Next Page for Geological Information                                                    |       |
|                    |               |                            |      |         |           |           |  | See Next Page for Geological Information                                                    | 15    |
|                    |               |                            |      |         |           |           |  | See Next Page for Geological Information                                                    |       |
|                    |               |                            |      |         |           |           |  | See Next Page for Geological Information                                                    | 16    |
|                    |               |                            |      |         |           |           |  | See Next Page for Geological Information                                                    |       |
|                    |               |                            |      |         |           |           |  | See Next Page for Geological Information                                                    | 17    |
|                    |               |                            |      |         |           |           |  | See Next Page for Geological Information                                                    |       |
|                    |               |                            |      |         |           |           |  | See Next Page for Geological Information                                                    | 18    |
|                    |               |                            |      |         |           |           |  | See Next Page for Geological Information                                                    |       |
|                    |               |                            |      |         |           |           |  | See Next Page for Geological Information                                                    | 19    |

| Hole Diameter |          | Casing Diameter |          | Chiselling |            |          |      | Inclination and Orientation |      |             |             | Installation |        |           |          |
|---------------|----------|-----------------|----------|------------|------------|----------|------|-----------------------------|------|-------------|-------------|--------------|--------|-----------|----------|
| Depth Base    | Diameter | Depth Base      | Diameter | Depth Top  | Depth Base | Duration | Tool | Top                         | Base | Inclination | Orientation | Top          | Base   | Pipe Type | Diameter |
| 11.50m        | 200mm    | 11.50m          | 200mm    | 5.00m      | 6.00m      | 01:00    |      |                             |      |             |             | 0.00m        | 46.00m | PLAIN     |          |
| 50.00m        | 146mm    | 50.00m          | 146mm    | 9.50m      | 10.50m     | 01:30    |      |                             |      |             |             | 46.00m       | 50.00m | SLOTTED   |          |
|               |          |                 |          | 38.00m     | 41.00m     | 02:30    |      |                             |      |             |             |              |        |           |          |

Remarks  
Inspection pit hand dug to 1.20m bgl.  
Coring using 146mm wireline system (Geobore S) using air / mist flush.  
Approximate percentage by volume quantifiers as follows; rare (<5%), occasional (5-20%), frequent (20-40%) and abundant (>40%).  
Target depth achieved and depth to bedrock proven.

Log printed on 13/09/2022 at 13:09

Date: 21/03/2022 - 01/04/2022

Co-ords: E387609.49 N400317.41

Final Depth: 50.00m

Core Barrel

| Hole Diameter    |                | Casing Diameter  |                | Chiselling               |                           |                         |      | Inclination and Orientation |      |             |             | Drilling Flush |      |      |        |         |         | Installation    |        |                  |          |
|------------------|----------------|------------------|----------------|--------------------------|---------------------------|-------------------------|------|-----------------------------|------|-------------|-------------|----------------|------|------|--------|---------|---------|-----------------|--------|------------------|----------|
| Base             | Diameter       | Base             | Diameter       | Top                      | Base                      | Duration                | Tool | Top                         | Base | Inclination | Orientation | Top            | Base | Type | Colour | Min (%) | Max (%) | Top             | Base   | Pipe Type        | Diameter |
| 11.50m<br>50.00m | 200mm<br>146mm | 11.50m<br>50.00m | 200mm<br>146mm | 5.00m<br>9.50m<br>38.00m | 6.00m<br>10.50m<br>41.00m | 01:00<br>01:30<br>02:30 |      |                             |      |             |             |                |      |      |        |         |         | 0.00m<br>46.00m | 50.00m | PLAIN<br>SLOTTED |          |

Inspection pit hand dug to 1.20m bgl.  
Coring using 146mm wireline system (Geobore S) using air / mist flush.  
Approximate percentage by volume quantifiers as follows; rare (<5%), occasional (5-20%), frequent (20-40%) and abundant (>40%).  
Target depth achieved and depth to bedrock proven.

Log printed on 13/09/2022 at 13:09

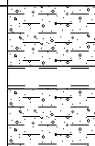
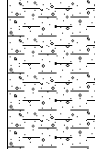
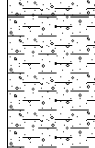
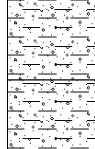
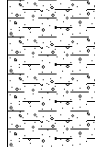
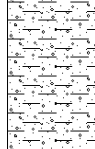
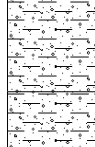
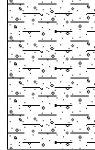
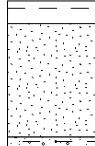
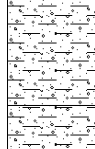
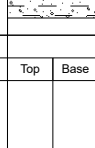
# Rotary Cored Borehole Log

BOREHOLE REFERENCE

**RH202**

Sheet 4 of 7

|                              |                                                  |                                           |
|------------------------------|--------------------------------------------------|-------------------------------------------|
| Project Name: Ten Acres Lane | Client: NUVU Developments Ltd                    | Date: 21/03/2022 - 01/04/2022             |
| Location: Newton Heath       | Contractor: Geotron Ltd                          | Co-ords: E387609.49 N400317.41            |
| Project No. : LD10385        | Drilling Equipment: Commachio GEO305 +Dando 2500 | Level : 84.87m AoD<br>Final Depth: 50.00m |

| Logged By<br>JP+MS                                                                 |                                                                                    |               | Checked By<br>JC |        |     |     | Approved By<br>MP             |                |                | Bit Type                                                                            |                                                                                                                                                                                                                                                                                                                                          | Core Barrel |  |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|---------------|------------------|--------|-----|-----|-------------------------------|----------------|----------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--|
| Install. /<br>Backfill                                                             | Water<br>Strikes                                                                   | Depth<br>(m)  | Type<br>/<br>FI  | Coring |     |     | Diameter<br>Recovery<br>(SPT) | Depth<br>(m)   | Level<br>(m)   | Legend                                                                              | Stratum Description                                                                                                                                                                                                                                                                                                                      | Scale       |  |
|                                                                                    |                                                                                    |               |                  | TCR    | SCR | RQD |                               |                |                |                                                                                     |                                                                                                                                                                                                                                                                                                                                          |             |  |
|  |  |               |                  |        |     |     |                               | 20.00<br>20.15 | 64.87<br>64.72 |    | Minimal recovery. Core loss presumed to be softer and / or more granular materials. Driller notes very soft, brown clay. Recovered core comprises firm, brown, slightly sandy, gravelly CLAY. Gravel is angular to subrounded of fine to coarse coal, mudstone and sandstone. Recovered core sticks are 0.05m to 0.15m in length.<br>CGT | 20          |  |
|                                                                                    |                                                                                    | 20.00 - 21.50 |                  | 90     | 50  |     | 109mm                         |                |                |    | A zone of core loss. Core loss presumed to be softer and / or more granular materials. Driller notes very soft, brown clay.<br>CGT                                                                                                                                                                                                       | 21          |  |
|                                                                                    |                                                                                    |               |                  |        |     |     |                               | 21.60          | 63.27          |    | Firm, brown, slightly sandy, gravelly CLAY with medium spaced thin to medium beds of multicoloured, subrounded to rounded, medium to coarse gravel of black diorite, pinkish brown granite and light brown gritstone. Gravel in clay is subangular to subrounded of fine to coarse coal, mudstone and sandstone<br>CGT                   | 22          |  |
|                                                                                    |                                                                                    | 21.50 - 23.00 |                  | 100    | 95  |     | 109mm                         |                |                |    | 20.33m : Diorite cobble at 20.33m.<br>Very stiff, brown, gravelly CLAY. Gravel is subangular to subrounded of fine to coarse granite, coal, sandstone and mudstone.<br>CGT                                                                                                                                                               | 23          |  |
|                                                                                    |                                                                                    |               |                  |        |     |     |                               | 23.00          | 61.87          |   | 21.90m - 22.20m : Occasional cobble sized lenses of reddish brown sand between 21.90m and 22.50m.<br>22.65m - 23.00m : Occasional brown sand laminations between 22.65m to 23.00m.                                                                                                                                                       | 24          |  |
|                                                                                    |                                                                                    | 23.00 - 24.50 |                  | 100    | 100 |     | 109mm                         |                |                |  | Very stiff, brown, slightly sandy, slightly gravelly CLAY. Gravel is subrounded to rounded of fine to coarse granite, diorite, coal, sandstone and mudstone.<br>CGT                                                                                                                                                                      | 25          |  |
|                                                                                    |                                                                                    |               |                  |        |     |     |                               |                |                |  | 25.10m - 25.80m : Becoming stiff between 25.10m and 25.80m.                                                                                                                                                                                                                                                                              | 26          |  |
|                                                                                    |                                                                                    | 24.50 - 26.00 |                  | 100    | 100 |     | 109mm                         |                |                |  | Stiff, brown, slightly sandy, slightly gravelly CLAY. Gravel is subrounded to rounded of fine to coarse granite, diorite, coal, sandstone and mudstone.<br>CGT                                                                                                                                                                           | 27          |  |
|                                                                                    |                                                                                    |               |                  |        |     |     |                               |                |                |  | Zone of core loss. Core loss presumed due to softer and / or more granular materials. Driller notes brown CLAY.<br>CGT                                                                                                                                                                                                                   | 28          |  |
|                                                                                    |                                                                                    | 26.00 - 27.50 |                  | 90     | 90  |     | 109mm                         |                |                |  | Zone of core loss. Core loss presumed due granular materials. Driller notes SAND.<br>GGT                                                                                                                                                                                                                                                 | 29          |  |
|                                                                                    |                                                                                    |               |                  |        |     |     |                               |                |                |  | Recovered core comprises stiff to very stiff, brown, slightly sandy, slightly gravelly CLAY. Gravel is subrounded to rounded of fine to coarse granite, diorite, coal, sandstone and mudstone.<br>CGT                                                                                                                                    | 30          |  |
|                                                                                    |                                                                                    | 27.50 - 29.00 |                  | 50     | 50  |     | 109mm                         | 28.25          | 56.62          |  | 28.45m - 28.50m : Brown sand band between 28.45m and 28.50m.                                                                                                                                                                                                                                                                             | 31          |  |
|                                                                                    |                                                                                    |               |                  |        |     |     |                               | 29.00          | 55.87          |  | Very stiff, brown, slightly sandy, slightly gravelly CLAY with rare cobble sized lenses of brown sand. Gravel is subangular to rounded of fine to coarse granite, coal and sandstone.<br>CGT                                                                                                                                             | 32          |  |

| Hole Diameter |          | Casing Diameter |          | Chiselling |        |          |      | Inclination and Orientation |      |             |             | Drilling Flush |      |      |        |         |         | Installation |        |           |          |
|---------------|----------|-----------------|----------|------------|--------|----------|------|-----------------------------|------|-------------|-------------|----------------|------|------|--------|---------|---------|--------------|--------|-----------|----------|
| Base          | Diameter | Base            | Diameter | Top        | Base   | Duration | Tool | Top                         | Base | Inclination | Orientation | Top            | Base | Type | Colour | Min (%) | Max (%) | Top          | Base   | Pipe Type | Diameter |
| 11.50m        | 200mm    | 11.50m          | 200mm    | 5.00m      | 6.00m  | 01:00    |      |                             |      |             |             |                |      |      |        |         |         | 0.00m        | 46.00m | PLAIN     |          |
| 50.00m        | 146mm    | 50.00m          | 146mm    | 9.50m      | 10.50m | 01:30    |      |                             |      |             |             |                |      |      |        |         |         | 46.00m       | 50.00m | SLOTTED   |          |
|               |          |                 |          | 38.00m     | 41.00m | 02:30    |      |                             |      |             |             |                |      |      |        |         |         |              |        |           |          |

**General Remarks**  
 Inspection pit hand dug to 1.20m bgl.  
 Coring using 146mm wireline system (Geobore S) using air / mist flush.  
 Approximate percentage by volume quantifiers as follows; rare (<5%), occasional (5-20%), frequent (20-40%) and abundant (>40%).  
 Target depth achieved and depth to bedrock proven.

**Log printed on 13/09/2022 at 13:09**

# Rotary Cored Borehole Log

BOREHOLE REFERENCE

**RH202**

Sheet 5 of 7

|                              |                                                  |                                           |
|------------------------------|--------------------------------------------------|-------------------------------------------|
| Project Name: Ten Acres Lane | Client: NUVU Developments Ltd                    | Date: 21/03/2022 - 01/04/2022             |
| Location: Newton Heath       | Contractor: Geotron Ltd                          | Co-ords: E387609.49 N400317.41            |
| Project No. : LD10385        | Drilling Equipment: Commachio GEO305 +Dando 2500 | Level : 84.87m AoD<br>Final Depth: 50.00m |

|                    |                  |                   |          |             |
|--------------------|------------------|-------------------|----------|-------------|
| Logged By<br>JP+MS | Checked By<br>JC | Approved By<br>MP | Bit Type | Core Barrel |
|--------------------|------------------|-------------------|----------|-------------|

| Instali. / Backfill | Water Strikes | Depth (m)     | Type / FI | Coring |     |     | Diameter Recovery (SPT) | Depth (m)                        | Level (m)                        | Legend | Stratum Description                                                                                                                                                                                                                                                                                                                                                                                                                                            | Scale |
|---------------------|---------------|---------------|-----------|--------|-----|-----|-------------------------|----------------------------------|----------------------------------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|                     |               |               |           | TCR    | SCR | RQD |                         |                                  |                                  |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |
|                     |               | 29.00 - 30.50 |           | 100    | 100 |     | 109mm                   |                                  |                                  |        | Very stiff, brown, slightly sandy, slightly gravelly CLAY with rare cobble sized lenses of brown sand. Gravel is subangular to rounded of fine to coarse granite, coal and sandstone.<br>CGT                                                                                                                                                                                                                                                                   | 30    |
|                     |               | 30.50 - 32.00 |           | 100    | 100 |     | 109mm                   |                                  |                                  |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 31    |
|                     |               | 32.00 - 33.50 |           | 100    | 100 |     | 109mm                   |                                  |                                  |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 32    |
|                     |               | 33.50 - 35.00 |           | 100    | 100 |     | 109mm                   | 34.00                            | 50.87                            |        | Very stiff, laminated, brown, slightly sandy, slightly gravelly CLAY with close to medium spaced laminations of brown sand. Gravel is subangular to rounded of fine to coarse granite, coal and sandstone.<br>CGT                                                                                                                                                                                                                                              | 34    |
|                     |               | 35.00 - 36.50 |           | 7      | 7   |     | 109mm                   | 35.00<br>35.10                   | 49.87<br>49.77                   |        | Recovered core comprises very stiff, brown, slightly sandy, slightly gravelly CLAY. Gravel is subangular to rounded of fine to coarse granite, coal and sandstone. Recovered core stick is 0.10m in length.<br>CGT<br>Minimal recovery. Core loss presumed due to granular materials. Driller notes sand. Recovered material comprises reddish brown, slightly gravelly SAND. Gravel is angular to subrounded of fine to medium sandstone and mudstone.<br>GGT | 35    |
|                     |               | 36.50 - 38.00 |           | 83     | 83  |     | 109mm                   | 36.60                            | 48.27                            |        | Very stiff, brown, slightly sandy, slightly gravelly CLAY with close to medium spaced laminations of brown sand. Gravel is subangular to rounded of fine to coarse granite, coal and sandstone.<br>CGT<br>Zone of core loss. Core loss presumed to be softer and / or more granular materials. Driller notes brown, sandy CLAY.<br>CGT                                                                                                                         | 37    |
|                     |               | 38.00 - 39.50 |           | 93     | 93  |     | 109mm                   | 37.75<br>37.90<br>38.00<br>38.10 | 47.12<br>46.97<br>46.87<br>46.77 |        | Very stiff, brown, slightly sandy, slightly gravelly CLAY. Gravel is subangular to rounded of fine to coarse granite, coal and sandstone.<br>CGT<br>Zone of core loss. Core loss presumed to be softer and / or more granular materials. Driller notes brown, sandy CLAY.<br>CGT<br>Stiff, brown, slightly sandy, gravelly CLAY. Gravel is subangular to rounded of fine to coarse granite, diorite, sandstone and coal.<br>CGT                                | 38    |
|                     |               |               |           |        |     |     |                         |                                  |                                  |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 39    |

| Hole Diameter    |                | Casing Diameter  |                | Chiselling               |                           |                         |      | Inclination and Orientation |      |             |             | Drilling Flush |      |      |        |         |         | Installation    |                  |                  |          |
|------------------|----------------|------------------|----------------|--------------------------|---------------------------|-------------------------|------|-----------------------------|------|-------------|-------------|----------------|------|------|--------|---------|---------|-----------------|------------------|------------------|----------|
| Base             | Diameter       | Base             | Diameter       | Top                      | Base                      | Duration                | Tool | Top                         | Base | Inclination | Orientation | Top            | Base | Type | Colour | Min (%) | Max (%) | Top             | Base             | Pipe Type        | Diameter |
| 11.50m<br>50.00m | 200mm<br>146mm | 11.50m<br>50.00m | 200mm<br>146mm | 5.00m<br>9.50m<br>38.00m | 6.00m<br>10.50m<br>41.00m | 01:00<br>01:30<br>02:30 |      |                             |      |             |             |                |      |      |        |         |         | 0.00m<br>46.00m | 46.00m<br>50.00m | PLAIN<br>SLOTTED |          |

## General Remarks

Inspection pit hand dug to 1.20m bgl.  
Coring using 146mm wireline system (Geobore S) using air / mist flush.  
Approximate percentage by volume quantifiers as follows; rare (<5%), occasional (5-20%), frequent (20-40%) and abundant (>40%).  
Target depth achieved and depth to bedrock proven.

Log printed on 13/09/2022 at 13:09

# Rotary Cored Borehole Log

BOREHOLE REFERENCE

**RH202**

Sheet 6 of 7

|                              |                                                  |                                           |
|------------------------------|--------------------------------------------------|-------------------------------------------|
| Project Name: Ten Acres Lane | Client: NUVU Developments Ltd                    | Date: 21/03/2022 - 01/04/2022             |
| Location: Newton Heath       | Contractor: Geotron Ltd                          | Co-ords: E387609.49 N400317.41            |
| Project No. : LD10385        | Drilling Equipment: Commachio GEO305 +Dando 2500 | Level : 84.87m AoD<br>Final Depth: 50.00m |

| Logged By<br>JP+MS                                                                 |                                                                                    |               | Checked By<br>JC |               |     |     |                               | Approved By<br>MP |              |                                                                                   | Bit Type                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                  | Core Barrel                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                       |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|---------------|------------------|---------------|-----|-----|-------------------------------|-------------------|--------------|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Instali. /<br>Backfill                                                             | Water<br>Strikes                                                                   | Depth<br>(m)  | Type<br>/ FI     | Coring        |     |     | Diameter<br>Recovery<br>(SPT) | Depth<br>(m)      | Level<br>(m) | Legend                                                                            | Stratum Description                                                                                                                                                                                                                                                        | Scale                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                       |
|                                                                                    |                                                                                    |               |                  | TCR           | SCR | RQD |                               |                   |              |                                                                                   |                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                       |
|  |  | 39.50 - 41.00 |                  |               |     |     |                               | 39.50             | 45.37        |  | Stiff, brown, slightly sandy, gravelly CLAY. Gravel is subangular to rounded of fine to coarse granite, diorite, sandstone and coal.<br>CGT                                                                                                                                | 40                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                       |
|                                                                                    |                                                                                    |               |                  |               |     |     |                               | 39.70             | 45.17        |  | Minimal recovery. Recovered core comprises very stiff, brown, slightly sandy, slightly gravelly CLAY with rare cobbles of quartzite and sandstone. Gravel is subangular to subrounded of fine to coarse mixed lithologies. Recovered core stick is 0.20m in length.<br>CGT |                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                       |
|                                                                                    |                                                                                    | 41.00 - 42.50 |                  | 13            | 13  |     |                               |                   | 41.00        | 43.87                                                                             |                                                                                                                                                                                           | Minimal recovery. Core loss presumed due to granular materials. Driller notes sand with a small amount of clay. Recovered material comprises reddish brown, slightly gravelly SAND. Gravel is angular to subrounded of fine to medium sandstone and mudstone.<br>GGT                             | 41                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                       |
|                                                                                    |                                                                                    |               |                  | 47            | 0   |     |                               |                   | 42.50        | 42.37                                                                             |                                                                                                                                                                                           | Partial recovery. Core loss presumed due to more granular materials. Driller notes small amount of brown clay with washed cobbles. Recovered material comprises brown, sandy, clayey, subangular to rounded, fine to coarse GRAVEL of sandstone, mudstone and granite.<br>GGT                    |                                                                                                                                                                                                                                                                                                                                                          | 42                                                                                                                                                                                                    |
|                                                                                    |                                                                                    | 42.50 - 44.00 |                  | 30            | 0   |     |                               |                   | 42.50        | 42.37                                                                             |                                                                                                                                                                                           | Partial recovery. Core loss presumed to be more granular materials. Driller notes small amount of brown clay with washed cobbles. Recovered material comprises multicolored, gravelly COBBLES. Gravel and cobbles are subrounded to rounded of sandstone and quartzite. Gravel is coarse.<br>GGT | 43                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                       |
|                                                                                    |                                                                                    |               |                  | 44.00 - 45.50 | 77  | 10  |                               |                   |              | 44.00                                                                             | 40.87                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                          | Recovered material comprises multicolored, gravelly COBBLES. Gravel and cobbles are subrounded to rounded of sandstone and quartzite. Gravel is coarse. Driller notes washed cobbles and sand.<br>GGT |
|                                                                                    |                                                                                    | 45.50 - 47.00 |                  |               | 40  | 17  |                               |                   |              | 45.00                                                                             | 39.87                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                 | Recovered material comprises brown, mottled reddish brown and yellow, sandy, clayey GRAVEL with rare rounded cobbles of sandstone. Gravel is subangular to rounded of fine to coarse mixed natural lithologies. Driller notes washed cobbles and sand.<br>GGT                                                                                            | 45                                                                                                                                                                                                    |
|                                                                                    |                                                                                    |               |                  | 47.00 - 48.50 | 40  | 20  |                               |                   |              | 45.50                                                                             | 39.37                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                 | Partial recovery. Core loss presumed due to granular materials. Drillers note cored boulders. Recovered material comprises red, gravelly SAND with millet seed grains and occasional subrounded cobbles of sandstone. Gravel is subangular to subrounded of fine to coarse sandstone and mixed lithologies.<br>GGT                                       |                                                                                                                                                                                                       |
|                                                                                    |                                                                                    | 47.00 - 48.50 |                  |               | 40  | 20  |                               |                   |              | 47.00                                                                             | 37.87                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                 | Zone of core loss. Core loss presumed due to granular materials. Drillers note cobbles and a bit of red sand.<br>GGT                                                                                                                                                                                                                                     | 47                                                                                                                                                                                                    |
|                                                                                    |                                                                                    |               |                  | 47.00 - 48.50 | 40  | 20  |                               |                   |              | 47.50                                                                             | 37.37                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                | Partial recovery. Core loss presumed due to poorly cemented and / or weathered rock. Driller notes cobbles and a little red sand. Recovered material comprises red, gravelly SAND with millet seed grains. Gravel is subangular to subrounded of fine to coarse sandstone. Possibly extremely weak, red, poorly cemented, reddish brown sandstone.<br>CF |                                                                                                                                                                                                       |
|                                                                                    |                                                                                    | 47.00 - 48.50 |                  |               | 40  | 20  |                               |                   |              | 48.50                                                                             | 36.37                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                               | Recovered material comprises reddish brown, angular, fine to medium GRAVEL of extremely weak, reddish brown sandstone. Drillers notes red sandstone. Possibly extremely weak, reddish brown, sandstone.<br>CF                                                                                                                                            |                                                                                                                                                                                                       |
|                                                                                    |                                                                                    |               |                  | 47.00 - 48.50 | 40  | 20  |                               |                   |              | 48.50                                                                             | 36.37                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                               | Recovered material comprises reddish brown, angular, fine to medium GRAVEL of extremely weak, reddish brown sandstone. Drillers notes red sandstone. Possibly extremely weak, reddish brown, sandstone.<br>CF                                                                                                                                            |                                                                                                                                                                                                       |

| Hole Diameter |          | Casing Diameter |          | Chiselling |        |          |      | Inclination and Orientation |      |             |             | Drilling Flush |      |      |        |         |         | Installation |        |           |          |
|---------------|----------|-----------------|----------|------------|--------|----------|------|-----------------------------|------|-------------|-------------|----------------|------|------|--------|---------|---------|--------------|--------|-----------|----------|
| Base          | Diameter | Base            | Diameter | Top        | Base   | Duration | Tool | Top                         | Base | Inclination | Orientation | Top            | Base | Type | Colour | Min (%) | Max (%) | Top          | Base   | Pipe Type | Diameter |
| 11.50m        | 200mm    | 11.50m          | 200mm    | 5.00m      | 6.00m  | 01:00    |      |                             |      |             |             |                |      |      |        |         |         | 0.00m        | 46.00m | PLAIN     |          |
| 50.00m        | 146mm    | 50.00m          | 146mm    | 9.50m      | 10.50m | 01:30    |      |                             |      |             |             |                |      |      |        |         |         | 46.00m       | 50.00m | SLOTTED   |          |
|               |          |                 |          | 38.00m     | 41.00m | 02:30    |      |                             |      |             |             |                |      |      |        |         |         |              |        |           |          |

**General Remarks**

Inspection pit hand dug to 1.20m bgl.

Coring using 146mm wireline system (Geobore S) using air / mist flush.

Approximate percentage by volume quantifiers as follows; rare (<5%), occasional (5-20%), frequent (20-40%) and abundant (>40%).

Target depth achieved and depth to bedrock proven.

**Log printed on 13/09/2022 at 13:09**

# Rotary Cored Borehole Log

BOREHOLE REFERENCE  
**RH202**  
Sheet 7 of 7

|                              |                                                  |                                |
|------------------------------|--------------------------------------------------|--------------------------------|
| Project Name: Ten Acres Lane | Client: NUVU Developments Ltd                    | Date: 21/03/2022 - 01/04/2022  |
| Location: Newton Heath       | Contractor: Geotron Ltd                          | Co-ords: E387609.49 N400317.41 |
| Project No. : LD10385        | Drilling Equipment: Commachio GEO305 +Dando 2500 | Level : 84.87m AoD             |
| Logged By<br>JP+MS           | Checked By<br>JC                                 | Approved By<br>MP              |
| Bit Type                     | Core Barrel                                      |                                |

| Instali. / Back fill | Water Strikes | Depth (m)     | Type / FI | Coring |     |     | Diameter Recovery (SPT) | Depth (m) | Level (m) | Legend | Stratum Description                                                                                                                                                                                           | Scale |
|----------------------|---------------|---------------|-----------|--------|-----|-----|-------------------------|-----------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|                      |               |               |           | TCR    | SCR | RQD |                         |           |           |        |                                                                                                                                                                                                               |       |
|                      |               | 48.50 - 50.00 |           | 67     | 47  |     | 109mm                   | 49.20     | 35.67     |        | Recovered material comprises reddish brown, angular, fine to medium GRAVEL of extremely weak, reddish brown sandstone. Drillers notes red sandstone. Possibly extremely weak, reddish brown, sandstone.<br>CF |       |
|                      |               |               |           |        |     |     |                         | 50.00     | 34.87     |        | Recovered core comprises extremely weak to weak, laminated, reddish brown, fine to coarse SANDSTONE.<br>CF<br>49.50m - 49.60m : Yellowish brown between 49.50m and 49.60m.<br>End of Borehole at 50.00m       | 50    |
|                      |               |               |           |        |     |     |                         |           |           |        |                                                                                                                                                                                                               | 51    |
|                      |               |               |           |        |     |     |                         |           |           |        |                                                                                                                                                                                                               | 52    |
|                      |               |               |           |        |     |     |                         |           |           |        |                                                                                                                                                                                                               | 53    |
|                      |               |               |           |        |     |     |                         |           |           |        |                                                                                                                                                                                                               | 54    |
|                      |               |               |           |        |     |     |                         |           |           |        |                                                                                                                                                                                                               | 55    |
|                      |               |               |           |        |     |     |                         |           |           |        |                                                                                                                                                                                                               | 56    |
|                      |               |               |           |        |     |     |                         |           |           |        |                                                                                                                                                                                                               | 57    |
|                      |               |               |           |        |     |     |                         |           |           |        |                                                                                                                                                                                                               | 58    |

| Hole Diameter |          | Casing Diameter |          | Chiselling |        |          |      | Inclination and Orientation |      |             |             | Drilling Flush |      |      |        |         |         | Installation |        |           |          |
|---------------|----------|-----------------|----------|------------|--------|----------|------|-----------------------------|------|-------------|-------------|----------------|------|------|--------|---------|---------|--------------|--------|-----------|----------|
| Base          | Diameter | Base            | Diameter | Top        | Base   | Duration | Tool | Top                         | Base | Inclination | Orientation | Top            | Base | Type | Colour | Min (%) | Max (%) | Top          | Base   | Pipe Type | Diameter |
| 11.50m        | 200mm    | 11.50m          | 200mm    | 5.00m      | 6.00m  | 01:00    |      |                             |      |             |             |                |      |      |        |         |         | 0.00m        | 46.00m | PLAIN     |          |
| 50.00m        | 146mm    | 50.00m          | 146mm    | 9.50m      | 10.50m | 01:30    |      |                             |      |             |             |                |      |      |        |         |         | 46.00m       | 50.00m | SLOTTED   |          |
|               |          |                 |          | 38.00m     | 41.00m | 02:30    |      |                             |      |             |             |                |      |      |        |         |         |              |        |           |          |

**General Remarks**  
 Inspection pit hand dug to 1.20m bgl.  
 Coring using 146mm wireline system (Geobore S) using air / mist flush.  
 Approximate percentage by volume quantifiers as follows; rare (<5%), occasional (5-20%), frequent (20-40%) and abundant (>40%).  
 Target depth achieved and depth to bedrock proven.  
**Log printed on 13/09/2022 at 13:09**

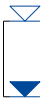
# Cable Percussive Borehole Log

BOREHOLE REFERENCE

**RH203**

Sheet 1 of 7

|                              |                  |                                                     |                       |                                |                       |
|------------------------------|------------------|-----------------------------------------------------|-----------------------|--------------------------------|-----------------------|
| Project Name: Ten Acres Lane |                  | Client: NUVU Developments Ltd                       |                       | Date: 22/03/2022 - 12/04/2022  |                       |
| Location: Newton Heath       |                  | Contractor: Geotron Ltd                             |                       | Co-ords: E387696.77 N400389.59 |                       |
| Project No. : LD10385        |                  | Drilling Equipment: Commachio GEO305<br>+Dando 2500 |                       | Level : 86.17m AoD             |                       |
| Logged By<br>JP & LT         | Checked By<br>JC | Approved By<br>MP                                   | SPT Energy Ratio<br>% |                                | Final Depth<br>50.00m |

| Install. /<br>Backfill                                                             | Water<br>Strikes | Sample and In Situ Testing |      |         | Depth<br>(m) | Level<br>(m) | Legend | Stratum Description                                                                                                                                                                                                                                               | Scale |
|------------------------------------------------------------------------------------|------------------|----------------------------|------|---------|--------------|--------------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|                                                                                    |                  | Depth (m)                  | Type | Results |              |              |        |                                                                                                                                                                                                                                                                   |       |
|  |                  | 0.00 – 1.00                | B    |         |              |              |        | Recovered as topsoil over brown, slightly sandy GRAVEL with frequent cobble sized fragments of red brick. Gravel is angular to subrounded of fine to coarse red brick, timber and plastic. Occasional fabric fragments, twigs, roots and rootlets.<br>GMG         | 1     |
|                                                                                    |                  | 1.90 – 2.90                | B    |         | 1.90         | 84.27        |        | Recovered as dark grey, sandy / ashy, very clayey GRAVEL with occasional cobble sized fragments of red brick and timber panels. Gravel is angular to rounded of fine to coarse red brick, timber, plastic and mixed lithologies. Slight hydrocarbon odour.<br>GMG | 2     |
|                                                                                    |                  | 4.00 – 5.00                | B    |         | 4.20         | 81.97        |        | Recovered as dark greyish brown, sandy / ashy, very clayey GRAVEL with frequent cobble sized fragments of red brick, breeze block and metal. Gravel is angular to subangular of fine to coarse red brick and mixed lithologies.<br>GMG                            | 5     |
|                                                                                    |                  | 8.00 – 9.00                | B    |         | 8.00         | 78.17        |        | Recovered as soft, dark greyish brown, slightly sandy, gravelly CLAY with frequent cobble sized fragments of concrete, ceramics and metal. Gravel is angular to rounded of fine to coarse, red brick, concrete and mixed lithologies.<br>CMG                      | 8     |
|                                                                                    |                  | 9.00 – 10.00               | B    |         | 8.80         | 77.37        |        | Recovered as soft, brown, slightly sandy, slightly gravelly CLAY. Gravel is subangular to rounded of fine to coarse mixed natural lithologies.<br>CGT                                                                                                             | 9     |

| Hole Diameter    |                | Casing Diameter |                | Chiselling |            |          |      | Inclination and Orientation |      |             |             | Installation    |                  |                  |          |
|------------------|----------------|-----------------|----------------|------------|------------|----------|------|-----------------------------|------|-------------|-------------|-----------------|------------------|------------------|----------|
| Depth Base       | Diameter       | Depth Base      | Diameter       | Depth Top  | Depth Base | Duration | Tool | Top                         | Base | Inclination | Orientation | Top             | Base             | Pipe Type        | Diameter |
| 10.00m<br>50.00m | 200mm<br>146mm | 7.50m<br>50.00m | 200mm<br>146mm |            |            |          |      |                             |      |             |             | 0.00m<br>47.00m | 47.00m<br>50.00m | PLAIN<br>SLOTTED |          |

**Remarks**  
Inspection pit hand dug to 1.20m bgl.  
Coring using 146mm wireline system (Geobore S) using air / mist flush.  
Approximate percentage by volume quantifiers as follows; rare (<5%), occasional (5-20%), frequent (20-40%) and abundant (>40%).  
Target depth achieved and depth to bedrock proven.

**Log printed on 13/09/2022 at 13:09**

# Cable Percussive Borehole Log

BOREHOLE REFERENCE  
**RH203**  
Sheet 2 of 7

|                              |                  |                                                     |                       |                                |                       |
|------------------------------|------------------|-----------------------------------------------------|-----------------------|--------------------------------|-----------------------|
| Project Name: Ten Acres Lane |                  | Client: NUVU Developments Ltd                       |                       | Date: 22/03/2022 - 12/04/2022  |                       |
| Location: Newton Heath       |                  | Contractor: Geotron Ltd                             |                       | Co-ords: E387696.77 N400389.59 |                       |
| Project No. : LD10385        |                  | Drilling Equipment: Commachio GEO305<br>+Dando 2500 |                       | Level : 86.17m AoD             |                       |
| Logged By<br>JP & LT         | Checked By<br>JC | Approved By<br>MP                                   | SPT Energy Ratio<br>% |                                | Final Depth<br>50.00m |

| Instal. /<br>Backfill | Water<br>Strikes | Sample and In Situ Testing |      |         | Depth<br>(m) | Level<br>(m) | Legend | Stratum Description                                                                                                                                                                                      | Scale |
|-----------------------|------------------|----------------------------|------|---------|--------------|--------------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|                       |                  | Depth (m)                  | Type | Results |              |              |        |                                                                                                                                                                                                          |       |
|                       |                  |                            |      |         | 10.00        | 76.17        |        | Recovered as soft, brown, slightly sandy, slightly gravelly CLAY. Gravel is subangular to rounded of fine to coarse mixed natural lithologies.<br>CGT<br><i>See Next Page for Geological Information</i> | 10    |
|                       |                  |                            |      |         |              |              |        | <i>See Next Page for Geological Information</i>                                                                                                                                                          | 11    |
|                       |                  |                            |      |         |              |              |        | <i>See Next Page for Geological Information</i>                                                                                                                                                          | 12    |
|                       |                  |                            |      |         |              |              |        | <i>See Next Page for Geological Information</i>                                                                                                                                                          | 13    |
|                       |                  |                            |      |         |              |              |        | <i>See Next Page for Geological Information</i>                                                                                                                                                          | 14    |
|                       |                  |                            |      |         |              |              |        | <i>See Next Page for Geological Information</i>                                                                                                                                                          | 15    |
|                       |                  |                            |      |         |              |              |        | <i>See Next Page for Geological Information</i>                                                                                                                                                          | 16    |
|                       |                  |                            |      |         |              |              |        | <i>See Next Page for Geological Information</i>                                                                                                                                                          | 17    |
|                       |                  |                            |      |         |              |              |        | <i>See Next Page for Geological Information</i>                                                                                                                                                          | 18    |
|                       |                  |                            |      |         |              |              |        | <i>See Next Page for Geological Information</i>                                                                                                                                                          | 19    |

| Hole Diameter    |                | Casing Diameter |                | Chiselling |            |          |      | Inclination and Orientation |      |             |             | Installation    |                  |                  |          |
|------------------|----------------|-----------------|----------------|------------|------------|----------|------|-----------------------------|------|-------------|-------------|-----------------|------------------|------------------|----------|
| Depth Base       | Diameter       | Depth Base      | Diameter       | Depth Top  | Depth Base | Duration | Tool | Top                         | Base | Inclination | Orientation | Top             | Base             | Pipe Type        | Diameter |
| 10.00m<br>50.00m | 200mm<br>146mm | 7.50m<br>50.00m | 200mm<br>146mm |            |            |          |      |                             |      |             |             | 0.00m<br>47.00m | 47.00m<br>50.00m | PLAIN<br>SLOTTED |          |

**Remarks**  
 Inspection pit hand dug to 1.20m bgl.  
 Coring using 146mm wireline system (Geobore S) using air / mist flush.  
 Approximate percentage by volume quantifiers as follows; rare (<5%), occasional (5-20%), frequent (20-40%) and abundant (>40%).  
 Target depth achieved and depth to bedrock proven.  
**Log printed on 13/09/2022 at 13:09**

# Rotary Cored Borehole Log

BOREHOLE REFERENCE  
**RH203**  
Sheet 3 of 7

|                              |                  |                                                  |          |                                |                     |
|------------------------------|------------------|--------------------------------------------------|----------|--------------------------------|---------------------|
| Project Name: Ten Acres Lane |                  | Client: NUVU Developments Ltd                    |          | Date: 22/03/2022 - 12/04/2022  |                     |
| Location: Newton Heath       |                  | Contractor: Geotron Ltd                          |          | Co-ords: E387696.77 N400389.59 |                     |
| Project No. : LD10385        |                  | Drilling Equipment: Commachio GEO305 +Dando 2500 |          | Level : 86.17m AoD             | Final Depth: 50.00m |
| Logged By<br>JP & LT         | Checked By<br>JC | Approved By<br>MP                                | Bit Type |                                | Core Barrel         |

| Instal. / Backfill | Water Strikes | Depth (m)     | Type / FI | Coring |     |     | Diameter Recovery (SPT) | Depth (m) | Level (m) | Legend | Stratum Description                                                                                                                                                                                                                                                                                                                        | Scale |
|--------------------|---------------|---------------|-----------|--------|-----|-----|-------------------------|-----------|-----------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|                    |               |               |           | TCR    | SCR | RQD |                         |           |           |        |                                                                                                                                                                                                                                                                                                                                            |       |
|                    |               | 10.00 - 11.00 |           | 50     | 50  |     | 109mm                   | 11.00     | 75.17     |        | See Previous Page for Geological Information                                                                                                                                                                                                                                                                                               | 10    |
|                    |               | 11.00 - 12.50 |           | 7      | 7   |     | 109mm                   | 12.50     | 73.67     |        | Partial recovery. Core loss presumed due to softer and / or more granular materials. Drillers note very soft, sandy, gravelly clay. Recovered core comprises firm, brown, slightly sandy, slightly gravelly CLAY. Gravel is subangular to rounded of fine to coarse mixed natural lithologies. CGT                                         | 11    |
|                    |               | 12.50 - 14.00 |           | 0      |     |     | 109mm                   | 14.00     | 72.17     |        | Minimal recovery. Core loss presumed due to softer and / or more granular materials. Drillers note very soft, sandy, gravelly clay. Recovered core comprises firm, brown, slightly sandy, slightly gravelly CLAY. Gravel is subrounded to rounded of medium to coarse mixed natural lithologies. Recovered core stick is 0.10m length. CGT | 12    |
|                    |               | 14.00 - 15.50 |           | 0      |     |     | 109mm                   | 15.50     | 70.67     |        | Zone of core loss. Core loss presumed due to more granular materials. Drillers note SAND. GGT                                                                                                                                                                                                                                              | 13    |
|                    |               | 15.50 - 17.00 |           | 50     | 0   |     | 109mm                   | 17.00     | 69.17     |        | Zone of core loss. Core loss presumed due to more granular materials. Drillers note dense blowing SAND. GGT                                                                                                                                                                                                                                | 14    |
|                    |               | 17.00 - 18.50 |           | 73     | 20  |     | 109mm                   | 18.50     | 67.67     |        | Partial recovery. Core loss presumed due to granular materials. Driller notes dense, blowing sand. Recovered material comprises wet, brown SAND. GGT                                                                                                                                                                                       | 15    |
|                    |               | 18.50 - 20.00 |           | 0      |     |     | 109mm                   |           |           |        | Recovered material comprises wet, brown SAND. Driller notes dense blowing sand. GGT                                                                                                                                                                                                                                                        | 16    |
|                    |               |               |           |        |     |     |                         |           |           |        | Zone of core loss. Core loss presumed due to granular materials. Driller notes sand. Recovered material from flush arisings comprises wet, brown, slightly gravelly SAND. Gravel is subrounded of fine bituminous mudstone. GGT                                                                                                            | 17    |
|                    |               |               |           |        |     |     |                         |           |           |        |                                                                                                                                                                                                                                                                                                                                            | 18    |
|                    |               |               |           |        |     |     |                         |           |           |        |                                                                                                                                                                                                                                                                                                                                            | 19    |

| Hole Diameter |          | Casing Diameter |          | Chiselling |      |          |      | Inclination and Orientation |      |             | Drilling Flush |     |      |      |        |         |         | Installation |        |           |          |
|---------------|----------|-----------------|----------|------------|------|----------|------|-----------------------------|------|-------------|----------------|-----|------|------|--------|---------|---------|--------------|--------|-----------|----------|
| Base          | Diameter | Base            | Diameter | Top        | Base | Duration | Tool | Top                         | Base | Inclination | Orientation    | Top | Base | Type | Colour | Min (%) | Max (%) | Top          | Base   | Pipe Type | Diameter |
| 10.00m        | 200mm    | 7.50m           | 200mm    |            |      |          |      |                             |      |             |                |     |      |      |        |         |         | 0.00m        | 47.00m | PLAIN     |          |
| 50.00m        | 146mm    | 50.00m          | 146mm    |            |      |          |      |                             |      |             |                |     |      |      |        |         |         | 47.00m       | 50.00m | SLOTTED   |          |

**General Remarks**  
 Inspection pit hand dug to 1.20m bgl.  
 Coring using 146mm wireline system (Geobore S) using air / mist flush.  
 Approximate percentage by volume quantifiers as follows; rare (<5%), occasional (5-20%), frequent (20-40%) and abundant (>40%).  
 Target depth achieved and depth to bedrock proven.  
**Log printed on 13/09/2022 at 13:09**

# Rotary Cored Borehole Log

BOREHOLE REFERENCE

**RH203**

Sheet 4 of 7

|                              |                                                  |                                |
|------------------------------|--------------------------------------------------|--------------------------------|
| Project Name: Ten Acres Lane | Client: NUVU Developments Ltd                    | Date: 22/03/2022 - 12/04/2022  |
| Location: Newton Heath       | Contractor: Geotron Ltd                          | Co-ords: E387696.77 N400389.59 |
| Project No. : LD10385        | Drilling Equipment: Commachio GEO305 +Dando 2500 | Level : 86.17m AoD             |
| Logged By<br>JP & LT         | Checked By<br>JC                                 | Approved By<br>MP              |
| Bit Type                     | Core Barrel                                      |                                |

| Install. / Backfill | Water Strikes | Depth (m)     | Type / FI | Coring |     |     | Diameter Recovery (SPT) | Depth (m) | Level (m) | Legend | Stratum Description                                                                                                                                                                                                                                                                                                                                                                                        | Scale |
|---------------------|---------------|---------------|-----------|--------|-----|-----|-------------------------|-----------|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|                     |               |               |           | TCR    | SCR | RQD |                         |           |           |        |                                                                                                                                                                                                                                                                                                                                                                                                            |       |
|                     |               | 20.00 - 21.50 |           | 0      |     |     | 109mm                   |           |           |        | Zone of core loss. Core loss presumed due to granular materials. Driller notes sand. Recovered material from flush arisings comprises wet, brown, slightly gravelly SAND. Gravel is subrounded of fine bituminous mudstone. GGT                                                                                                                                                                            | 20    |
|                     |               |               |           |        |     |     |                         |           |           |        |                                                                                                                                                                                                                                                                                                                                                                                                            | 21    |
|                     |               | 21.50 - 23.00 |           | 0      |     |     | 109mm                   |           |           |        |                                                                                                                                                                                                                                                                                                                                                                                                            | 22    |
|                     |               |               |           |        |     |     |                         |           |           |        |                                                                                                                                                                                                                                                                                                                                                                                                            | 23    |
|                     |               | 23.00 - 24.50 |           | 10     |     |     | 109mm                   | 23.00     | 63.17     |        | Minimal recovery. Core loss presumed due to granular materials. Drillers note sandy clay. Recovered material comprises wet, brown, slightly gravelly, clayey SAND. Gravel is subrounded of fine bituminous mudstone. GGT                                                                                                                                                                                   | 24    |
|                     |               |               |           |        |     |     |                         | 24.50     | 61.67     |        |                                                                                                                                                                                                                                                                                                                                                                                                            | 25    |
|                     |               | 24.50 - 26.00 |           | 66     | 27  |     | 109mm                   | 24.85     | 61.32     |        | Recovered core comprises firm, brown, slightly sandy, slightly gravelly CLAY. Gravel is subangular to subrounded of fine to coarse mixed natural lithologies. Zone of core loss (0.15m) but depth range uncertain. CGT                                                                                                                                                                                     | 26    |
|                     |               |               |           |        |     |     |                         | 26.00     | 60.17     |        | Recovered as soft, wet, brown, slightly gravelly, sandy CLAY. Gravel is subangular to rounded of fine to coarse mixed natural lithologies. Zone of core loss (0.25m) but depth range uncertain. CGT                                                                                                                                                                                                        | 27    |
|                     |               | 26.00 - 27.50 |           | 83     | 80  |     | 109mm                   | 26.25     | 59.92     |        | Zone of core loss. Core loss presumed due to softer and / or more granular materials. Driller notes stiff clay with gravels. CGT                                                                                                                                                                                                                                                                           | 28    |
|                     |               |               |           |        |     |     |                         |           |           |        | Very stiff, brown, slightly sandy, slightly gravelly CLAY. Gravel is subangular to rounded of fine to coarse granite, diorite, mudstone and sandstone. CGT                                                                                                                                                                                                                                                 | 29    |
|                     |               | 27.50 - 29.00 |           | 40     | 33  |     | 109mm                   | 27.50     | 58.67     |        | 27.40m - 27.50m : Becoming sandy between 27.40m and 27.50m. Partial recovery. Core loss presumed to be softer and / or more granular materials. Driller notes clay and cobbles. Recovered core comprises very stiff, brown, slightly sandy, slightly gravelly CLAY with a single diorite cobble at 28.30m. Gravel is subangular to rounded of fine to coarse granite, diorite, mudstone and sandstone. CGT | 30    |
|                     |               |               |           |        |     |     |                         | 29.00     | 57.17     |        | Zone of core loss. Core loss presumed due to softer and / or more granular materials. Driller notes sandy CLAY. CGT                                                                                                                                                                                                                                                                                        | 31    |

| Hole Diameter |          | Casing Diameter |          | Chiselling |      |          |      | Inclination and Orientation |      |             |             | Drilling Flush |      |      |        |         |         | Installation |        |           |          |
|---------------|----------|-----------------|----------|------------|------|----------|------|-----------------------------|------|-------------|-------------|----------------|------|------|--------|---------|---------|--------------|--------|-----------|----------|
| Base          | Diameter | Base            | Diameter | Top        | Base | Duration | Tool | Top                         | Base | Inclination | Orientation | Top            | Base | Type | Colour | Min (%) | Max (%) | Top          | Base   | Pipe Type | Diameter |
| 10.00m        | 200mm    | 7.50m           | 200mm    |            |      |          |      |                             |      |             |             |                |      |      |        |         |         | 0.00m        | 47.00m | PLAIN     |          |
| 50.00m        | 146mm    | 50.00m          | 146mm    |            |      |          |      |                             |      |             |             |                |      |      |        |         |         | 47.00m       | 50.00m | SLOTTED   |          |

## General Remarks

Inspection pit hand dug to 1.20m bgl.

Coring using 146mm wireline system (Geobore S) using air / mist flush.

Approximate percentage by volume quantifiers as follows; rare (<5%), occasional (5-20%), frequent (20-40%) and abundant (>40%).

Target depth achieved and depth to bedrock proven.

Log printed on 13/09/2022 at 13:09

# Rotary Cored Borehole Log

BOREHOLE REFERENCE

**RH203**

Sheet 5 of 7

|                              |                                                  |                                        |
|------------------------------|--------------------------------------------------|----------------------------------------|
| Project Name: Ten Acres Lane | Client: NUVU Developments Ltd                    | Date: 22/03/2022 - 12/04/2022          |
| Location: Newton Heath       | Contractor: Geotron Ltd                          | Co-ords: E387696.77 N400389.59         |
| Project No. : LD10385        | Drilling Equipment: Commachio GEO305 +Dando 2500 | Level : 86.17m AoD Final Depth: 50.00m |

|                      |                  |                   |          |             |
|----------------------|------------------|-------------------|----------|-------------|
| Logged By<br>JP & LT | Checked By<br>JC | Approved By<br>MP | Bit Type | Core Barrel |
|----------------------|------------------|-------------------|----------|-------------|

| Instal. / Backfill | Water Strikes | Depth (m)     | Type / FI | Coring |     |     | Diameter Recovery (SPT) | Depth (m) | Level (m) | Legend | Stratum Description                                                                                                                                                                                                                                                                                                                                  | Scale |
|--------------------|---------------|---------------|-----------|--------|-----|-----|-------------------------|-----------|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|                    |               |               |           | TCR    | SCR | RQD |                         |           |           |        |                                                                                                                                                                                                                                                                                                                                                      |       |
|                    |               | 29.00 - 30.50 |           | 57     | 53  |     | 109mm                   | 29.55     | 56.62     |        | Zone of core loss. Core loss presumed due to softer and / or more granular materials. Driller notes sandy CLAY. CGT<br>Recovered core comprises very stiff, brown, slightly sandy, slightly gravelly CLAY. Gravel is subangular to rounded of fine to coarse granite, diorite, mudstone and sandstone. CGT                                           | 30    |
|                    |               | 30.50 - 32.00 |           | 43     | 33  |     | 109mm                   | 30.50     | 55.67     |        | Partial recovery. Core loss presumed due to softer and / or more granular materials. Driller notes clay and cobbles. Recovered core comprises very stiff, becoming firm, brown, slightly sandy, slightly gravelly CLAY. Gravel is subangular to rounded of fine to coarse granite, diorite, mudstone and sandstone. CGT                              | 31    |
|                    |               | 32.00 - 33.50 |           | 37     | 32  |     | 109mm                   | 32.00     | 54.17     |        | Partial recovery. Core loss presumed due to softer and / or more granular materials. Driller notes clay and cobbles. Recovered core comprises very stiff, brown, slightly sandy, slightly gravelly CLAY with laminations of firm, brown, sandy clay. Gravel is subangular to rounded of fine to coarse granite, diorite, mudstone and sandstone. CGT | 32    |
|                    |               |               |           |        |     |     |                         |           |           |        | 33.25m : A single diorite cobble at 33.25m.                                                                                                                                                                                                                                                                                                          | 33    |
|                    |               | 33.50 - 35.00 |           | 100    | 100 |     | 109mm                   | 33.50     | 52.67     |        | Very stiff, brown, slightly sandy, slightly gravelly CLAY. Gravel is subangular to subrounded of fine to medium sandstone, mudstone and mixed natural lithologies. Sand is fine. CGT                                                                                                                                                                 | 34    |
|                    |               | 35.00 - 36.50 |           | 31     | 31  |     | 109mm                   | 35.00     | 51.17     |        | Partial recovery. Core loss presumed due to softer and / or more granular materials. Recovered core comprises very stiff, brown, slightly sandy, slightly gravelly CLAY. Gravel is subangular to subrounded of fine to medium sandstone, mudstone and mixed natural lithologies. Sand is fine. CGT                                                   | 35    |
|                    |               | 36.50 - 38.00 |           | 95     | 95  |     | 109mm                   | 36.50     | 49.67     |        | Very stiff, brown, slightly sandy, slightly gravelly CLAY. Gravel is subangular to subrounded of fine to coarse sandstone, mudstone and mixed natural lithologies. Sand is fine to medium. CGT                                                                                                                                                       | 37    |
|                    |               |               |           |        |     |     |                         | 37.22     | 48.95     |        | Stiff, thinly laminated, brown, slightly sandy CLAY with occasional laminations of brown, silty, fine sand. Sand is fine. CGT                                                                                                                                                                                                                        |       |
|                    |               |               |           |        |     |     |                         | 37.82     | 48.35     |        | Firm to stiff, brown, slightly sandy CLAY. Sand is fine. CGT                                                                                                                                                                                                                                                                                         | 38    |
|                    |               | 38.00 - 39.50 |           | 36     | 36  |     | 109mm                   | 37.92     | 48.25     |        | Zone of core loss. Core loss presumed due to softer and / or more granular materials. Drillers notes CLAY. CGT                                                                                                                                                                                                                                       |       |
|                    |               |               |           |        |     |     |                         | 38.00     | 48.17     |        | Partial recovery. Core loss presumed due to softer and / or more granular materials. Drillers note clay and sand. Recovered core comprises firm to stiff, brown, slightly sandy CLAY. Sand is fine. CGT                                                                                                                                              | 39    |

| Hole Diameter |          | Casing Diameter |          | Chiselling |      |          |      | Inclination and Orientation |      |             | Drilling Flush |     |      |      |        |         |         | Installation |        |           |          |
|---------------|----------|-----------------|----------|------------|------|----------|------|-----------------------------|------|-------------|----------------|-----|------|------|--------|---------|---------|--------------|--------|-----------|----------|
| Base          | Diameter | Base            | Diameter | Top        | Base | Duration | Tool | Top                         | Base | Inclination | Orientation    | Top | Base | Type | Colour | Min (%) | Max (%) | Top          | Base   | Pipe Type | Diameter |
| 10.00m        | 200mm    | 7.50m           | 200mm    |            |      |          |      |                             |      |             |                |     |      |      |        |         |         | 0.00m        | 47.00m | PLAIN     |          |
| 50.00m        | 146mm    | 50.00m          | 146mm    |            |      |          |      |                             |      |             |                |     |      |      |        |         |         | 47.00m       | 50.00m | SLOTTED   |          |

## General Remarks

Inspection pit hand dug to 1.20m bgl.

Coring using 146mm wireline system (Geobore S) using air / mist flush.

Approximate percentage by volume quantifiers as follows; rare (<5%), occasional (5-20%), frequent (20-40%) and abundant (>40%).

Target depth achieved and depth to bedrock proven.

Log printed on 13/09/2022 at 13:09

# Rotary Cored Borehole Log

BOREHOLE REFERENCE

**RH203**

Sheet 6 of 7

|                              |                                                     |                                           |
|------------------------------|-----------------------------------------------------|-------------------------------------------|
| Project Name: Ten Acres Lane | Client: NUVU Developments Ltd                       | Date: 22/03/2022 - 12/04/2022             |
| Location: Newton Heath       | Contractor: Geotron Ltd                             | Co-ords: E387696.77 N400389.59            |
| Project No. : LD10385        | Drilling Equipment: Commachio GEO305<br>+Dando 2500 | Level : 86.17m AoD<br>Final Depth: 50.00m |

|                      |                  |                   |          |             |
|----------------------|------------------|-------------------|----------|-------------|
| Logged By<br>JP & LT | Checked By<br>JC | Approved By<br>MP | Bit Type | Core Barrel |
|----------------------|------------------|-------------------|----------|-------------|

| Instal. /<br>Backfill | Water<br>Strikes | Depth<br>(m)  | Type<br>/ FI | Coring |     |     | Diameter<br>Recovery<br>(SPT) | Depth<br>(m) | Level<br>(m) | Legend | Stratum Description                                                                                                                                                                                                                                                                                                                                    | Scale |
|-----------------------|------------------|---------------|--------------|--------|-----|-----|-------------------------------|--------------|--------------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|                       |                  |               |              | TCR    | SCR | RQD |                               |              |              |        |                                                                                                                                                                                                                                                                                                                                                        |       |
|                       |                  | 39.50 - 41.00 |              | 30     | 0   |     | 109mm                         | 39.50        | 46.67        |        | Partial recovery. Core loss presumed due to softer and / or more granular materials. Drillers note clay and sand. Recovered core comprises firm to stiff, brown, slightly sandy CLAY. Sand is fine.<br>CGT                                                                                                                                             | 40    |
|                       |                  |               |              |        |     |     |                               | 40.75        | 45.42        |        | Partial recovery. Core loss presumed due to more granular materials. Drillers note clay with sand. Recovered material comprises light brown, gravelly, medium to coarse SAND. Gravel is subangular to subrounded of fine to coarse mixed natural lithologies. Recovered core is 0.14m in length and comprises firm, brown, slightly sandy CLAY.<br>GGT |       |
|                       |                  | 41.00 - 42.50 |              | 98     | 98  |     | 109mm                         | 41.00        | 45.17        |        | Partial recovery. Core loss presumed due to be softer and / or more granular materials. Drillers note clay with sand. Recovered core is 0.14m in length and comprises firm, brown, slightly sandy CLAY.<br>CGT                                                                                                                                         | 41    |
|                       |                  |               |              |        |     |     |                               |              |              |        | Very stiff, laminated, brown CLAY with occasional thin laminations of brown, silty fine sand and rare orangish brown, fine to medium sand.<br>CGT                                                                                                                                                                                                      | 42    |
|                       |                  | 42.50 - 44.00 |              | 100    | 100 |     | 109mm                         |              |              |        |                                                                                                                                                                                                                                                                                                                                                        | 43    |
|                       |                  |               |              |        |     |     |                               | 43.67        | 42.50        |        | Stiff, brown, slightly sandy CLAY. Sand is fine.<br>CGT                                                                                                                                                                                                                                                                                                |       |
|                       |                  |               |              |        |     |     |                               | 44.00        | 42.17        |        | Recovered core comprises stiff, brown, slightly sandy CLAY. Sand is fine.<br>CGT                                                                                                                                                                                                                                                                       | 44    |
|                       |                  | 44.00 - 45.50 |              | 55     | 55  |     | 109mm                         | 44.83        | 41.34        |        | Zone of core loss. Core loss presumed due to softer and / or more granular materials. Driller notes CLAY.<br>CGT                                                                                                                                                                                                                                       | 45    |
|                       |                  |               |              |        |     |     |                               | 45.50        | 40.67        |        | Firm, brown, sandy CLAY. Sand is fine.<br>CGT                                                                                                                                                                                                                                                                                                          | 46    |
|                       |                  | 45.50 - 46.50 |              | 100    | 100 |     | 109mm                         |              |              |        |                                                                                                                                                                                                                                                                                                                                                        |       |
|                       |                  | 46.50 - 47.50 |              | 100    | 100 |     | 109mm                         | 46.88        | 39.29        |        | Very stiff, brown, slightly sandy, slightly gravelly CLAY. Gravel is subangular to subrounded of fine to medium sandstone, mudstone, coal and mixed natural lithologies. Sand is fine to medium.<br>CGT                                                                                                                                                | 47    |
|                       |                  | 47.50 - 49.00 |              | 24     | 7   | 7   | 109mm                         | 47.50        | 38.67        |        | Minimal recovery. Core loss presumed due to weaker and / more weathered material. Driller notes red sandstone. Recovered core is 0.10m in length and comprises extremely weak, reddish brown, medium to coarse grained SANDSTONE. Remaining material recovered as reddish brown, medium to coarse sand.<br>CF                                          | 48    |
|                       |                  |               |              |        |     |     |                               | 49.00        | 37.17        |        |                                                                                                                                                                                                                                                                                                                                                        |       |

| Hole Diameter |          | Casing Diameter |          | Chiselling |      |          |      | Inclination and Orientation |      |             |             | Drilling Flush |      |      |        |         |         | Installation |        |           |          |
|---------------|----------|-----------------|----------|------------|------|----------|------|-----------------------------|------|-------------|-------------|----------------|------|------|--------|---------|---------|--------------|--------|-----------|----------|
| Base          | Diameter | Base            | Diameter | Top        | Base | Duration | Tool | Top                         | Base | Inclination | Orientation | Top            | Base | Type | Colour | Min (%) | Max (%) | Top          | Base   | Pipe Type | Diameter |
| 10.00m        | 200mm    | 7.50m           | 200mm    |            |      |          |      |                             |      |             |             |                |      |      |        |         |         | 0.00m        | 47.00m | PLAIN     |          |
| 50.00m        | 146mm    | 50.00m          | 146mm    |            |      |          |      |                             |      |             |             |                |      |      |        |         |         | 47.00m       | 50.00m | SLOTTED   |          |

## General Remarks

Inspection pit hand dug to 1.20m bgl.

Coring using 146mm wireline system (Geobore S) using air / mist flush.

Approximate percentage by volume quantifiers as follows; rare (&lt;5%), occasional (5-20%), frequent (20-40%) and abundant (&gt;40%).

Target depth achieved and depth to bedrock proven.

**Log printed on 13/09/2022 at 13:09**

# Rotary Cored Borehole Log

BOREHOLE REFERENCE  
**RH203**  
Sheet 7 of 7

|                              |                                                  |                                        |
|------------------------------|--------------------------------------------------|----------------------------------------|
| Project Name: Ten Acres Lane | Client: NUVU Developments Ltd                    | Date: 22/03/2022 - 12/04/2022          |
| Location: Newton Heath       | Contractor: Geotron Ltd                          | Co-ords: E387696.77 N400389.59         |
| Project No. : LD10385        | Drilling Equipment: Commachio GEO305 +Dando 2500 | Level : 86.17m AoD Final Depth: 50.00m |

|                      |                  |                   |          |             |
|----------------------|------------------|-------------------|----------|-------------|
| Logged By<br>JP & LT | Checked By<br>JC | Approved By<br>MP | Bit Type | Core Barrel |
|----------------------|------------------|-------------------|----------|-------------|

| Instal. / Backfill | Water Strikes | Depth (m)     | Type / FI | Coring |     |     | Diameter Recovery (SPT) | Depth (m)                        | Level (m)                        | Legend | Stratum Description                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Scale                                              |
|--------------------|---------------|---------------|-----------|--------|-----|-----|-------------------------|----------------------------------|----------------------------------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|
|                    |               |               |           | TCR    | SCR | RQD |                         |                                  |                                  |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                    |
|                    |               | 49.00 - 50.00 |           | 100    | 64  | 21  | 109mm                   | 49.15<br>49.35<br>49.85<br>50.00 | 37.02<br>36.82<br>36.32<br>36.17 |        | Extremely weak, reddish brown, medium to coarse grained SANDSTONE.<br>CF<br>Recovered as reddish brown, sandy, angular to subangular, fine to coarse GRAVEL of extremely weak, reddish brown, fine grained sandstone.<br>CF<br>Extremely weak to weak, reddish brown, fine to medium grained SANDSTONE. Discontinuities are subhorizontal (15°), closely spaced, planar smooth, tight to open.<br>CF<br>Recovered as reddish brown, fine SAND.<br>CF<br>End of Borehole at 50.00m | 50<br>51<br>52<br>53<br>54<br>55<br>56<br>57<br>58 |

| Hole Diameter |          | Casing Diameter |          | Chiselling |      |          |      | Inclination and Orientation |      |             |             | Drilling Flush |      |      |        |         |         | Installation |        |           |          |
|---------------|----------|-----------------|----------|------------|------|----------|------|-----------------------------|------|-------------|-------------|----------------|------|------|--------|---------|---------|--------------|--------|-----------|----------|
| Base          | Diameter | Base            | Diameter | Top        | Base | Duration | Tool | Top                         | Base | Inclination | Orientation | Top            | Base | Type | Colour | Min (%) | Max (%) | Top          | Base   | Pipe Type | Diameter |
| 10.00m        | 200mm    | 7.50m           | 200mm    |            |      | 7.50m    |      |                             |      |             |             |                |      |      |        |         |         | 0.00m        | 47.00m | PLAIN     |          |
| 50.00m        | 146mm    | 50.00m          | 146mm    |            |      |          |      |                             |      |             |             |                |      |      |        |         |         | 47.00m       | 50.00m | SLOTTED   |          |

**General Remarks**  
 Inspection pit hand dug to 1.20m bgl.  
 Coring using 146mm wireline system (Geobore S) using air / mist flush.  
 Approximate percentage by volume quantifiers as follows; rare (<5%), occasional (5-20%), frequent (20-40%) and abundant (>40%).  
 Target depth achieved and depth to bedrock proven.  
**Log printed on 13/09/2022 at 13:09**

# Cable Percussive Borehole Log

BOREHOLE REFERENCE

**RH204**

Sheet 1 of 6

|                              |                  |                                                 |                       |                                |  |
|------------------------------|------------------|-------------------------------------------------|-----------------------|--------------------------------|--|
| Project Name: Ten Acres Lane |                  | Client: NUVU Developments Ltd                   |                       | Date: 14/03/2022 - 08/04/2022  |  |
| Location: Newton Heath       |                  | Contractor: Geotron Ltd                         |                       | Co-ords: E387363.50 N400263.09 |  |
| Project No. : LD10385        |                  | Drilling Equipment: Dando 2500+Commachio GEO305 |                       | Level : 79.18m AoD             |  |
| Logged By<br>JP & MS         | Checked By<br>JC | Approved By<br>MP                               | SPT Energy Ratio<br>% | Final Depth<br>46.00m          |  |

| Instal. / Backfill | Sample and In Situ Testing |      |         | Depth (m) | Level (m) | Legend | Stratum Description                                                                                                                                                                                                                                                                                     | Scale |
|--------------------|----------------------------|------|---------|-----------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|                    | Depth (m)                  | Type | Results |           |           |        |                                                                                                                                                                                                                                                                                                         |       |
|                    | 0.00 – 1.00                | B    |         |           |           |        | Recovered as black, very gravelly, slightly clayey SAND / ASH with occasional cobble sized fragments of red brick and concrete. Gravel is angular to subrounded of fine to coarse red brick, concrete, glass, slate and suspected clinker. Hydrocarbon odour. CW                                        | 1     |
|                    | 2.00 – 2.80                | B    |         | 2.00      | 77.18     |        | Recovered as wet, dark greyish brown, very sandy, clayey GRAVEL with occasional cobble sized inclusions of soft, wet, dark greyish brown, slightly sandy, gravelly clay and occasional cobble sized fragments of red brick and concrete. Gravel is angular of fine to coarse red brick and concrete GMG | 2     |
|                    | 2.80 – 3.80                | B    |         | 2.80      | 76.38     |        | Firm, brown, slightly sandy, slightly gravelly CLAY. Gravel is subrounded of fine to coarse mixed natural lithologies. CGT                                                                                                                                                                              | 3     |
|                    | 5.00 – 6.00                | B    |         | 5.00      | 74.18     |        | Firm to stiff, brown, slightly sandy, slightly gravelly CLAY. Gravel is subrounded to rounded of fine to coarse mixed natural lithologies. CGT                                                                                                                                                          | 5     |
|                    |                            |      |         | 7.30      | 71.88     |        | See Next Page for Geological Information                                                                                                                                                                                                                                                                | 9     |
|                    |                            |      |         |           |           |        | See Next Page for Geological Information                                                                                                                                                                                                                                                                |       |
|                    |                            |      |         |           |           |        | See Next Page for Geological Information                                                                                                                                                                                                                                                                |       |

| Hole Diameter |          | Casing Diameter |          | Chiselling |            |          |      | Inclination and Orientation |      |             |             | Installation |        |           |          |
|---------------|----------|-----------------|----------|------------|------------|----------|------|-----------------------------|------|-------------|-------------|--------------|--------|-----------|----------|
| Depth Base    | Diameter | Depth Base      | Diameter | Depth Top  | Depth Base | Duration | Tool | Top                         | Base | Inclination | Orientation | Top          | Base   | Pipe Type | Diameter |
| 7.30m         | 200mm    | 7.30m           | 200mm    | 37.60m     | 38.45m     | 00:15    |      |                             |      |             |             | 0.00m        | 45.00m | PLAIN     |          |
| 46.00m        | 146mm    | 46.00m          | 146mm    | 38.45m     | 40.00m     | 01:30    |      |                             |      |             |             | 45.00m       | 46.00m | SLOTTED   |          |

## Remarks

Inspection pit hand dug to 1.20m bgl.  
Coring using 146mm wireline system (Geobore S) using air / mist flush.  
Approximate percentage by volume quantifiers as follows; rare (<5%), occasional (5-20%), frequent (20-40%) and abundant (>40%).  
Target depth achieved and depth to bedrock proven.

Log printed on 13/09/2022 at 13:09

# Rotary Cored Borehole Log

BOREHOLE REFERENCE

**RH204**

Sheet 2 of 6

|                              |                                                 |                                           |
|------------------------------|-------------------------------------------------|-------------------------------------------|
| Project Name: Ten Acres Lane | Client: NUVU Developments Ltd                   | Date: 14/03/2022 - 08/04/2022             |
| Location: Newton Heath       | Contractor: Geotron Ltd                         | Co-ords: E387363.50 N400263.09            |
| Project No. : LD10385        | Drilling Equipment: Dando 2500+Commachio GEO305 | Level : 79.18m AoD<br>Final Depth: 46.00m |

|                      |                  |                   |          |             |
|----------------------|------------------|-------------------|----------|-------------|
| Logged By<br>JP & MS | Checked By<br>JC | Approved By<br>MP | Bit Type | Core Barrel |
|----------------------|------------------|-------------------|----------|-------------|

| Instal. / Backfill | Water Strikes | Depth (m)   | Type / FI | Coring |     |     | Diameter Recovery (SPT) | Depth (m)            | Level (m)               | Legend | Stratum Description                                                                                                                                                                                                                                                                                                                                                                                                                                   | Scale |
|--------------------|---------------|-------------|-----------|--------|-----|-----|-------------------------|----------------------|-------------------------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|                    |               |             |           | TCR    | SCR | RQD |                         |                      |                         |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       |
|                    |               |             |           |        |     |     |                         |                      |                         |        | See Previous Page for Geological Information                                                                                                                                                                                                                                                                                                                                                                                                          | 1     |
|                    |               |             |           |        |     |     |                         |                      |                         |        | See Previous Page for Geological Information                                                                                                                                                                                                                                                                                                                                                                                                          | 2     |
|                    |               |             |           |        |     |     |                         |                      |                         |        | See Previous Page for Geological Information                                                                                                                                                                                                                                                                                                                                                                                                          | 3     |
|                    |               |             |           |        |     |     |                         |                      |                         |        | See Previous Page for Geological Information                                                                                                                                                                                                                                                                                                                                                                                                          | 4     |
|                    |               |             |           |        |     |     |                         |                      |                         |        | See Previous Page for Geological Information                                                                                                                                                                                                                                                                                                                                                                                                          | 5     |
|                    |               |             |           |        |     |     |                         |                      |                         |        | See Previous Page for Geological Information                                                                                                                                                                                                                                                                                                                                                                                                          | 6     |
|                    |               |             |           |        |     |     |                         |                      |                         |        | See Previous Page for Geological Information                                                                                                                                                                                                                                                                                                                                                                                                          | 7     |
|                    |               | 7.30 - 8.45 |           | 100    | 100 |     | 109mm                   |                      |                         |        | Firm, brown to reddish brown, mottled orangish brown, slightly sandy, slightly gravelly CLAY with occasional cobbles of sandstone and mudstone. Gravel is angular to subrounded of fine to coarse mudstone, sandstone and mixed natural lithologies. CGT                                                                                                                                                                                              | 8     |
|                    |               | 8.45 - 9.85 |           | 90     | 85  |     | 109mm                   | 9.25<br>9.35<br>9.75 | 69.93<br>69.83<br>69.43 |        | Recovered as cobble sized fragment of mudstone. Possible cored boulder of mudstone. CGT<br>Firm, brown to reddish brown, mottled black, grey and orange, slightly sandy, gravelly CLAY with rare cobbles of mudstone. Gravel is angular to subrounded of fine to coarse of mixed natural lithologies. CGT<br>Zone of core loss. Core loss presumed to be softer and / or more granular materials. Driller notes firm, brown, slightly sandy CLAY. CGT | 9     |

| Hole Diameter |          | Casing Diameter |          | Chiselling |        |          |      | Inclination and Orientation |      |             |             | Drilling Flush |      |      |        |         |         | Installation |        |           |          |
|---------------|----------|-----------------|----------|------------|--------|----------|------|-----------------------------|------|-------------|-------------|----------------|------|------|--------|---------|---------|--------------|--------|-----------|----------|
| Base          | Diameter | Base            | Diameter | Top        | Base   | Duration | Tool | Top                         | Base | Inclination | Orientation | Top            | Base | Type | Colour | Min (%) | Max (%) | Top          | Base   | Pipe Type | Diameter |
| 7.30m         | 200mm    | 7.30m           | 200mm    | 37.60m     | 38.45m | 00:15    |      |                             |      |             |             |                |      |      |        |         |         | 0.00m        | 45.00m | PLAIN     |          |
| 46.00m        | 146mm    | 46.00m          | 146mm    | 38.45m     | 38.50m | 00:45    |      |                             |      |             |             |                |      |      |        |         |         | 45.00m       | 46.00m | SLOTTED   |          |
|               |          |                 |          | 38.50m     | 40.00m | 01:30    |      |                             |      |             |             |                |      |      |        |         |         |              |        |           |          |

**General Remarks**  
 Inspection pit hand dug to 1.20m bgl.  
 Coring using 146mm wireline system (Geobore S) using air / mist flush.  
 Approximate percentage by volume quantifiers as follows; rare (<5%), occasional (5-20%), frequent (20-40%) and abundant (>40%).  
 Target depth achieved and depth to bedrock proven.  
**Log printed on 13/09/2022 at 13:09**

# Rotary Cored Borehole Log

BOREHOLE REFERENCE

**RH204**

Sheet 3 of 6

|                              |                                                 |                                           |
|------------------------------|-------------------------------------------------|-------------------------------------------|
| Project Name: Ten Acres Lane | Client: NUVU Developments Ltd                   | Date: 14/03/2022 - 08/04/2022             |
| Location: Newton Heath       | Contractor: Geotron Ltd                         | Co-ords: E387363.50 N400263.09            |
| Project No. : LD10385        | Drilling Equipment: Dando 2500+Commachio GEO305 | Level : 79.18m AoD<br>Final Depth: 46.00m |

|                      |                  |                   |          |             |
|----------------------|------------------|-------------------|----------|-------------|
| Logged By<br>JP & MS | Checked By<br>JC | Approved By<br>MP | Bit Type | Core Barrel |
|----------------------|------------------|-------------------|----------|-------------|

| Instal. / Backfill | Water Strikes | Depth (m)     | Type / FI | Coring |     |     | Diameter Recovery (SPT) | Depth (m)               | Level (m)               | Legend | Stratum Description                                                                                                                                                                                                                                                                                                                                                      | Scale |
|--------------------|---------------|---------------|-----------|--------|-----|-----|-------------------------|-------------------------|-------------------------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|                    |               |               |           | TCR    | SCR | RQD |                         |                         |                         |        |                                                                                                                                                                                                                                                                                                                                                                          |       |
|                    |               |               |           |        |     |     |                         | 9.85<br>10.05<br>10.20  | 69.33<br>69.13<br>68.98 |        | Zone of core loss. Core loss presumed to be softer and / or more granular materials. Driller notes firm, brown, slightly sandy CLAY.<br>CGT                                                                                                                                                                                                                              | 10    |
|                    |               | 9.85 - 11.45  |           | 90     | 65  |     | 109mm                   |                         |                         |        | Firm, brown to reddish brown, mottled orangish brown, slightly sandy, slightly gravelly CLAY. Gravel is angular to subrounded of fine to coarse mudstone, sandstone and mixed natural lithologies.<br>CGT                                                                                                                                                                |       |
|                    |               |               |           |        |     |     |                         | 11.30<br>11.45          | 67.88<br>67.73          |        | Firm, brown to reddish brown, mottled grey and green, slightly sandy, gravelly CLAY with occasional subangular to subrounded cobbles of mudstone and sandstone. Gravel is angular to subrounded of fine to coarse sandstone and mudstone.<br>CGT                                                                                                                         | 11    |
|                    |               | 11.45 - 12.85 |           | 95     | 86  |     | 109mm                   |                         |                         |        | Firm, brown to reddish brown, mottled orangish brown, slightly sandy, slightly gravelly CLAY. Gravel is angular to subrounded of fine to coarse mudstone, sandstone and mixed natural lithologies.<br>CGT                                                                                                                                                                | 12    |
|                    |               |               |           |        |     |     |                         | 12.75<br>12.91<br>13.10 | 66.43<br>66.27<br>66.08 |        | Zone of core loss. Core loss presumed to be softer and / or more granular materials. Driller notes firm, brown, slightly sandy CLAY<br>CGT                                                                                                                                                                                                                               |       |
|                    |               | 12.85 - 14.40 |           | 96     | 55  |     | 109mm                   |                         |                         |        | Firm, brown to reddish brown, mottled orangish brown, slightly sandy, slightly gravelly CLAY with rare subangular to subrounded cobbles of mudstone and sandstone. Gravel is angular to subrounded of fine to coarse mudstone, sandstone and mixed natural lithologies.<br>CGT                                                                                           | 13    |
|                    |               |               |           |        |     |     |                         | 13.50                   | 65.68                   |        | Zone of core loss. Core loss due to core being dropped. Driller notes firm to stiff, brown, slightly sandy, slightly gravelly CLAY<br>CGT                                                                                                                                                                                                                                | 14    |
|                    |               | 14.40 - 15.95 |           | 52     | 40  |     | 109mm                   |                         |                         |        | Firm, reddish brown to brown, slightly sandy CLAY.<br>CGT                                                                                                                                                                                                                                                                                                                |       |
|                    |               |               |           |        |     |     |                         |                         |                         |        | Soft to firm, brown to light reddish brown, slightly sandy, gravelly CLAY. Gravel is angular to subrounded of fine to coarse mixed natural lithologies.<br>CGT                                                                                                                                                                                                           | 15    |
|                    |               |               |           |        |     |     |                         | 15.20                   | 63.98                   |        | Firm, brown to reddish brown, slightly sandy, slightly gravelly CLAY with occasional cobble sized pockets of reddish brown, fine to medium sand and occasional cobbles of mudstone and sandstone. Gravel is angular to subrounded of fine to coarse mixed natural lithologies.<br>CGT                                                                                    |       |
|                    |               |               |           |        |     |     |                         | 16.00                   | 63.18                   |        | Zone of core loss. Core loss presumed due to loss of flush due to bowser running out of water. Possibly reddish brown SAND<br>GGT                                                                                                                                                                                                                                        | 16    |
|                    |               | 15.95 - 17.45 |           | 96     | 90  |     | 109mm                   |                         |                         |        | Firm, brown to reddish brown, slightly sandy, slightly gravelly CLAY with occasional cobble sized pockets of reddish brown, fine to medium sand and occasional cobbles of mudstone and sandstone. Gravel is angular to subrounded of fine to coarse mixed natural lithologies<br>CGT                                                                                     | 17    |
|                    |               |               |           |        |     |     |                         | 17.00                   | 62.18                   |        | Firm, brown, dark grey and reddish brown mottled, slightly sandy, gravelly CLAY with occasional subangular to subrounded cobbles of mudstone. Gravel is angular to subrounded of fine to coarse mixed natural lithologies.<br>CGT                                                                                                                                        |       |
|                    |               |               |           |        |     |     |                         | 17.45                   | 61.73                   |        | Firm, brown to reddish brown, slightly sandy, gravelly CLAY with rare subangular to subrounded cobbles of mudstone. Gravel is angular to subrounded of fine to coarse mixed natural lithologies.<br>CGT                                                                                                                                                                  | 18    |
|                    |               | 17.45 - 19.05 |           | 100    | 100 |     | 109mm                   |                         |                         |        | Firm, brown to reddish brown, slightly sandy, gravelly CLAY with rare subangular to subrounded cobbles of mudstone. Gravel is angular to subrounded of fine to coarse mixed natural lithologies.<br>CGT                                                                                                                                                                  |       |
|                    |               |               |           |        |     |     |                         | 19.05                   | 60.13                   |        | Firm to stiff, reddish brown, mottled orange, grey, black and green, slightly sandy, slightly gravelly CLAY with occasional cobble sized pockets of reddish brown, fine to medium sand and rare subangular to rounded cobbles of mudstone, sandstone and quartzite. Gravel is angular to subrounded of fine to coarse sandstone, mudstone, quartzite and dolerite<br>CGT | 19    |

| Hole Diameter |          | Casing Diameter |          | Chiselling |        |          |      | Inclination and Orientation |      |             |             | Drilling Flush |      |      |        |         |         | Installation |        |           |          |
|---------------|----------|-----------------|----------|------------|--------|----------|------|-----------------------------|------|-------------|-------------|----------------|------|------|--------|---------|---------|--------------|--------|-----------|----------|
| Base          | Diameter | Base            | Diameter | Top        | Base   | Duration | Tool | Top                         | Base | Inclination | Orientation | Top            | Base | Type | Colour | Min (%) | Max (%) | Top          | Base   | Pipe Type | Diameter |
| 7.30m         | 200mm    | 7.30m           | 200mm    | 37.60m     | 38.45m | 00:15    |      |                             |      |             |             |                |      |      |        |         |         | 0.00m        | 45.00m | PLAIN     |          |
| 46.00m        | 146mm    | 46.00m          | 146mm    | 38.45m     | 38.50m | 00:45    |      |                             |      |             |             |                |      |      |        |         |         | 45.00m       | 46.00m | SLOTTED   |          |
|               |          |                 |          | 38.50m     | 40.00m | 01:30    |      |                             |      |             |             |                |      |      |        |         |         |              |        |           |          |

## General Remarks

Inspection pit hand dug to 1.20m bgl.

Coring using 146mm wireline system (Geobore S) using air / mist flush.

Approximate percentage by volume quantifiers as follows; rare (<5%), occasional (5-20%), frequent (20-40%) and abundant (>40%).

Target depth achieved and depth to bedrock proven.

Log printed on 13/09/2022 at 13:09

# Rotary Cored Borehole Log

BOREHOLE REFERENCE

**RH204**

Sheet 4 of 6

|                              |                                                 |                                           |
|------------------------------|-------------------------------------------------|-------------------------------------------|
| Project Name: Ten Acres Lane | Client: NUVU Developments Ltd                   | Date: 14/03/2022 - 08/04/2022             |
| Location: Newton Heath       | Contractor: Geotron Ltd                         | Co-ords: E387363.50 N400263.09            |
| Project No. : LD10385        | Drilling Equipment: Dando 2500+Commachio GEO305 | Level : 79.18m AoD<br>Final Depth: 46.00m |

|                      |                  |                   |          |             |
|----------------------|------------------|-------------------|----------|-------------|
| Logged By<br>JP & MS | Checked By<br>JC | Approved By<br>MP | Bit Type | Core Barrel |
|----------------------|------------------|-------------------|----------|-------------|

| Instal. / Backfill | Water Strikes | Depth (m)     | Type / FI | Coring |     |     | Diameter Recovery (SPT) | Depth (m) | Level (m) | Legend | Stratum Description                                                                                                                                                                                                                                                                                                                                                                               | Scale |
|--------------------|---------------|---------------|-----------|--------|-----|-----|-------------------------|-----------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|                    |               |               |           | TCR    | SCR | RQD |                         |           |           |        |                                                                                                                                                                                                                                                                                                                                                                                                   |       |
|                    |               | 19.05 - 20.45 |           | 100    | 95  |     | 109mm                   |           |           |        | Firm to stiff, reddish brown, mottled orange, grey, black and green, slightly sandy, slightly gravelly CLAY with occasional cobble sized pockets of reddish brown, fine to medium sand and rare subangular to rounded cobbles of mudstone, sandstone and quartzite. Gravel is angular to subrounded of fine to coarse sandstone, mudstone, quartzite and dolerite<br>CGT                          | 20    |
|                    |               | 20.45 - 21.95 |           | 100    | 95  |     | 109mm                   |           |           |        |                                                                                                                                                                                                                                                                                                                                                                                                   | 21    |
|                    |               | 21.95 - 23.40 |           | 100    | 100 |     | 109mm                   | 21.95     | 57.23     |        | Firm to stiff, reddish brown to dark brown, slightly sandy, slightly gravelly CLAY with rare cobble sized pockets of dark grey to black gravel and rare rounded cobble of sandstone. Gravel is angular to subrounded of fine to coarse mixed natural lithologies.<br>CGT                                                                                                                          | 22    |
|                    |               | 23.40 - 25.00 |           | 100    | 100 |     | 109mm                   | 23.45     | 55.73     |        | Soft to firm, brown to reddish brown, slightly gravelly, sandy CLAY. Gravel is subangular to subrounded of fine to coarse mixed natural lithologies<br>CGT                                                                                                                                                                                                                                        | 23    |
|                    |               | 25.00 - 26.40 |           | 100    | 80  |     | 109mm                   | 24.55     | 54.63     |        | Firm to stiff, reddish brown to dark brown, slightly sandy, slightly gravelly CLAY. Gravel is angular to subrounded of fine to coarse mixed natural lithologies.<br>CGT                                                                                                                                                                                                                           | 24    |
|                    |               | 26.40 - 27.95 |           | 100    | 75  |     | 109mm                   | 25.00     | 54.18     |        | Firm to stiff, brown to reddish brown, slightly sandy, slightly gravelly CLAY with occasional cobble sized pockets of orangish brown fine to medium sand<br>CGT<br><i>25.60m - 25.90m : Becoming gravelly between 25.60 and 25.90m</i>                                                                                                                                                            | 25    |
|                    |               | 27.95 - 29.50 |           | 100    | 98  |     | 109mm                   | 26.30     | 52.88     |        | Soft to firm, dark brown, slightly gravelly, sandy CLAY. Gravel is angular to subrounded of fine to coarse mixed natural lithologies<br>CGT                                                                                                                                                                                                                                                       | 26    |
|                    |               |               |           |        |     |     |                         | 26.50     | 52.68     |        | Firm, reddish brown, mottled orangish brown, slightly sandy, slightly gravelly CLAY with rare rounded cobbles of mudstone. Gravel is angular to subrounded of fine to coarse mixed natural lithologies.<br>CGT                                                                                                                                                                                    | 27    |
|                    |               |               |           |        |     |     |                         | 27.95     | 51.23     |        | Firm, laminated, reddish brown to brown, mottled grey, black and orange, slightly sandy, slightly gravelly CLAY with occasional thin laminations of light yellow to orangish brown, fine sand. Occasional cobble sized pockets of light yellow to orangish brown, fine to medium sand. Gravel is angular to subrounded of fine to coarse sandstone, mudstone and mixed natural lithologies<br>CGT | 28    |
|                    |               |               |           |        |     |     |                         | 29.30     | 49.88     |        | Firm, laminated, brown, slightly sandy, slightly gravelly CLAY with occasional thin laminations of yellow to orange, fine to medium sand. Gravel is angular to subrounded of fine to coarse mixed natural lithologies.<br>CGT                                                                                                                                                                     | 29    |

| Hole Diameter |          | Casing Diameter |          | Chiselling |        |          |      | Inclination and Orientation |      |             |             | Drilling Flush |      |      |        |         |         | Installation |        |           |          |
|---------------|----------|-----------------|----------|------------|--------|----------|------|-----------------------------|------|-------------|-------------|----------------|------|------|--------|---------|---------|--------------|--------|-----------|----------|
| Base          | Diameter | Base            | Diameter | Top        | Base   | Duration | Tool | Top                         | Base | Inclination | Orientation | Top            | Base | Type | Colour | Min (%) | Max (%) | Top          | Base   | Pipe Type | Diameter |
| 7.30m         | 200mm    | 7.30m           | 200mm    | 37.60m     | 38.45m | 00:15    |      |                             |      |             |             |                |      |      |        |         |         | 0.00m        | 45.00m | PLAIN     |          |
| 46.00m        | 146mm    | 46.00m          | 146mm    | 38.45m     | 38.50m | 00:45    |      |                             |      |             |             |                |      |      |        |         |         | 45.00m       | 46.00m | SLOTTED   |          |
|               |          |                 |          | 38.50m     | 40.00m | 01:30    |      |                             |      |             |             |                |      |      |        |         |         |              |        |           |          |

**General Remarks**  
 Inspection pit hand dug to 1.20m bgl.  
 Coring using 146mm wireline system (Geobore S) using air / mist flush.  
 Approximate percentage by volume quantifiers as follows; rare (<5%), occasional (5-20%), frequent (20-40%) and abundant (>40%).  
 Target depth achieved and depth to bedrock proven.

**Log printed on 13/09/2022 at 13:09**

# Rotary Cored Borehole Log

BOREHOLE REFERENCE

**RH204**

Sheet 5 of 6

|                              |                                                 |                                           |
|------------------------------|-------------------------------------------------|-------------------------------------------|
| Project Name: Ten Acres Lane | Client: NUVU Developments Ltd                   | Date: 14/03/2022 - 08/04/2022             |
| Location: Newton Heath       | Contractor: Geotron Ltd                         | Co-ords: E387363.50 N400263.09            |
| Project No. : LD10385        | Drilling Equipment: Dando 2500+Commachio GEO305 | Level : 79.18m AoD<br>Final Depth: 46.00m |

| Logged By<br>JP & MS   |                  |               | Checked By<br>JC |        |     |     | Approved By<br>MP             |                |              | Bit Type                                                                                                                                                                                                                   |                                                                                                                                                                                                                            | Core Barrel                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                        |    |
|------------------------|------------------|---------------|------------------|--------|-----|-----|-------------------------------|----------------|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| Instali. /<br>Backfill | Water<br>Strikes | Depth<br>(m)  | Type<br>/ FI     | Coring |     |     | Diameter<br>Recovery<br>(SPT) | Depth<br>(m)   | Level<br>(m) | Legend                                                                                                                                                                                                                     | Stratum Description                                                                                                                                                                                                        | Scale                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                        |    |
|                        |                  |               |                  | TCR    | SCR | RQD |                               |                |              |                                                                                                                                                                                                                            |                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                        |    |
|                        |                  |               |                  |        |     |     |                               | 29.50          | 49.68        |                                                                                                                                                                                                                            | Firm, laminated, brown, slightly sandy, slightly gravelly CLAY with occasional thin laminations of yellow to orange, fine to medium sand. Gravel is angular to subrounded of fine to coarse mixed natural lithologies. CGT | 30                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                        |    |
|                        |                  | 29.50 - 30.50 |                  | 45     | 20  |     | 109mm                         | 30.00          | 49.18        |                                                                                                                                                                                                                            | Partial recovery. Recovered core comprises soft to firm, brown, slightly gravelly, sandy CLAY. Gravel is angular to subrounded of firm to coarse sandstone and mudstone CGT                                                |                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                        |    |
|                        |                  |               |                  |        |     |     | 30.50                         | 48.68          |              | Zone of core loss. Core loss presumed due to granular materials. Driller notes brown, silty SAND GGT                                                                                                                       | 31                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                        |    |
|                        |                  | 30.50 - 32.45 |                  | 12     | 12  |     | 109mm                         |                |              |                                                                                                                                                                                                                            |                                                                                                                                                                                                                            | Minimal recovery. Core loss presumed due to granular materials. Driller notes fine silt and sand with some gravel. Recovered material comprises reddish brown to orangish brown, slightly gravelly, slightly clayey, possibly silty SAND with occasional cobbles of sandstone and mudstone. Gravel is subangular to rounded of fine to coarse sandstone and mudstone. GGT |                                                                                                                                                                                                                                                                                                        |    |
|                        |                  |               |                  |        |     |     | 32.45                         | 46.73          |              | 31.05m - 33.90m : Driller notes majority of sand and silt washed away by flush. Only small recovery plus gravel. High torque on drill string also noted.                                                                   | 32                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                        |    |
|                        |                  | 32.45 - 33.75 |                  | 0      | 0   |     | 109mm                         |                |              |                                                                                                                                                                                                                            |                                                                                                                                                                                                                            | Minimal recovery. Core loss presumed due to granular materials. Driller notes fine silt and sand with some gravel. Recovered material comprises multicolored, subrounded to rounded, medium to coarse GRAVEL of mixed lithologies. GGT                                                                                                                                    |                                                                                                                                                                                                                                                                                                        |    |
|                        |                  |               |                  |        |     |     | 33.75<br>33.90                | 45.43<br>45.28 |              | Zone of core loss. Core loss presumed due to granular materials. Driller notes fine silt and sand with some gravel. GGT                                                                                                    | 34                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                        |    |
|                        |                  | 33.75 - 35.45 |                  | 80     | 80  |     | 109mm                         |                |              |                                                                                                                                                                                                                            |                                                                                                                                                                                                                            | Firm, reddish brown to dark brown, slightly sandy, slightly gravelly CLAY with occasional irregularly distributed cobble sized pockets of yellow to orange fine to medium sand and rare rounded cobbles of sandstone. Gravel is subangular to subrounded of fine to coarse sandstone. CGT                                                                                 |                                                                                                                                                                                                                                                                                                        |    |
|                        |                  |               |                  |        |     |     | 35.45<br>35.45                | 43.73<br>43.73 |              | Soft to firm, laminated, reddish brown, slightly sandy, slightly gravelly CLAY with irregular, fine laminations of reddish brown, fine to medium sand. Gravel is subangular to subrounded of fine to medium sandstone. CGT | 36                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                        |    |
|                        |                  | 35.45 - 37.00 |                  | 100    | 85  |     | 109mm                         |                |              |                                                                                                                                                                                                                            |                                                                                                                                                                                                                            | Recovered as soft to firm, laminated, reddish brown, slightly sandy CLAY with irregular, fine laminations of reddish brown, fine to medium sand. CGT                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                        |    |
|                        |                  |               |                  |        |     |     | 37.00                         | 42.18          |              | Zone of core loss. Core loss presumed due to granular materials. Driller notes blowing sand. Recovered material comprises brown, clayey SAND. GGT                                                                          | 37                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                        |    |
|                        |                  | 37.00 - 38.45 |                  | 60     | 45  |     | 109mm                         | 37.60          | 41.58        |                                                                                                                                                                                                                            |                                                                                                                                                                                                                            | Partial recovery. Core loss presumed due to granular materials and pushing down possible cobble. Recovered material comprises light brown, gravelly SAND with rare rounded cobbles of quartzite and sandstone. Gravel is subrounded to rounded of fine to coarse sandstone, mudstone and quartzite GGT                                                                    |                                                                                                                                                                                                                                                                                                        |    |
|                        |                  |               |                  |        |     |     |                               |                |              | 38.45                                                                                                                                                                                                                      | 40.73                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                           | Partial recovery. Core loss presumed due to granular materials and pushing down possible cobble. Recovered material comprises light brown, gravelly SAND with rare rounded cobbles of quartzite and sandstone. Gravel is subrounded to rounded of fine to coarse sandstone, mudstone and quartzite GGT | 39 |

| Hole Diameter |          | Casing Diameter |          | Chiselling |        |          |      | Inclination and Orientation |      |             |             | Drilling Flush |      |      |        |         |         | Installation |        |           |          |
|---------------|----------|-----------------|----------|------------|--------|----------|------|-----------------------------|------|-------------|-------------|----------------|------|------|--------|---------|---------|--------------|--------|-----------|----------|
| Base          | Diameter | Base            | Diameter | Top        | Base   | Duration | Tool | Top                         | Base | Inclination | Orientation | Top            | Base | Type | Colour | Min (%) | Max (%) | Top          | Base   | Pipe Type | Diameter |
| 7.30m         | 200mm    | 7.30m           | 200mm    | 37.60m     | 38.45m | 00:15    |      |                             |      |             |             |                |      |      |        |         |         | 0.00m        | 45.00m | PLAIN     |          |
| 46.00m        | 146mm    | 46.00m          | 146mm    | 38.45m     | 38.50m | 00:45    |      |                             |      |             |             |                |      |      |        |         |         | 45.00m       | 46.00m | SLOTTED   |          |
|               |          |                 |          | 38.50m     | 40.00m | 01:30    |      |                             |      |             |             |                |      |      |        |         |         |              |        |           |          |

## General Remarks

Inspection pit hand dug to 1.20m bgl.

Coring using 146mm wireline system (Geobore S) using air / mist flush.

Approximate percentage by volume quantifiers as follows; rare (<5%), occasional (5-20%), frequent (20-40%) and abundant (>40%).

Target depth achieved and depth to bedrock proven.

**Log printed on 13/09/2022 at 13:09**

# Rotary Cored Borehole Log

BOREHOLE REFERENCE

**RH204**

Sheet 6 of 6

|                              |                                                 |                                           |
|------------------------------|-------------------------------------------------|-------------------------------------------|
| Project Name: Ten Acres Lane | Client: NUVU Developments Ltd                   | Date: 14/03/2022 - 08/04/2022             |
| Location: Newton Heath       | Contractor: Geotron Ltd                         | Co-ords: E387363.50 N400263.09            |
| Project No. : LD10385        | Drilling Equipment: Dando 2500+Commachio GEO305 | Level : 79.18m AoD<br>Final Depth: 46.00m |

|                      |                  |                   |          |             |
|----------------------|------------------|-------------------|----------|-------------|
| Logged By<br>JP & MS | Checked By<br>JC | Approved By<br>MP | Bit Type | Core Barrel |
|----------------------|------------------|-------------------|----------|-------------|

| Install. / Backfill | Water Strikes | Depth (m)     | Type / FI | Coring |     |     | Diameter Recovery (SPT) | Depth (m) | Level (m) | Legend | Stratum Description                                                                                                                                                                                                                                                                                                                                                                                                       | Scale |
|---------------------|---------------|---------------|-----------|--------|-----|-----|-------------------------|-----------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|                     |               |               |           | TCR    | SCR | RQD |                         |           |           |        |                                                                                                                                                                                                                                                                                                                                                                                                                           |       |
|                     |               | 38.45 - 40.00 |           | 48     | 35  |     | 109mm                   | 40.00     | 39.18     |        | Partial recovery. Core loss presumed due to granular materials and pushing down possible cobble. Recovered material comprises light brown, gravelly SAND with rare rounded cobbles of quartzite and sandstone. Gravel is subrounded to rounded of fine to coarse sandstone, mudstone and quartzite<br>GGT                                                                                                                 | 40    |
|                     |               | 40.00 - 41.45 |           | 21     | 0   |     | 109mm                   | 41.50     | 37.68     |        | Firm, reddish brown to dark brown, slightly sandy, slightly gravelly CLAY with occasional cobble sized pockets of orange to yellow, fine to medium sand and rare rounded cobbles of sandstone. Gravel is angular to subrounded of fine to coarse sandstone<br>CGT                                                                                                                                                         | 41    |
|                     |               | 41.45 - 42.95 |           | 3      | 0   |     | 109mm                   | 42.95     | 36.23     |        | Minimal recovery. Core loss presumed due to granular materials and intermittent flush with sand being washed away by flush. Drillers note dense, brown, sandy gravel with cobbles. Recovered material comprises multicolored, possibly sandy, subangular to rounded, fine to coarse GRAVEL with frequent rounded cobbles. Gravel and cobbles are of mudstone, sandstone, andesite and quartzite.<br>GGT                   | 42    |
|                     |               | 42.95 - 44.40 |           | 41     | 25  |     | 109mm                   | 44.10     | 35.08     |        | Minimal recovery. Core loss presumed due to granular materials and intermittent flush with sand being washed away by flush. Drillers note dense, brown, sandy gravel with cobbles. Recovered material comprises multicolored, possibly sandy, subangular to rounded, fine to coarse GRAVEL of mudstone, sandstone, andesite and quartzite.<br>GGT                                                                         | 43    |
|                     |               | 44.40 - 46.00 |           | 100    | 100 | 0   | 109mm                   | 46.00     | 33.18     |        | Partial recovery. Core loss presumed due to granular materials and intermittent flush with sand being washed away by flush. Drillers note dense, brown, sandy gravel with cobbles. Recovered material comprises multicolored, possibly sandy, subangular to rounded, fine to coarse GRAVEL with frequent rounded cobbles. Gravel and cobbles are of mudstone, sandstone, basalt, granite, gritstone and quartzite.<br>GGT | 44    |
|                     |               |               |           |        |     |     |                         |           |           |        | Recovered as reddish brown, initially silty, fine to coarse SAND with millet seed grains and subhorizontal (20°) laminations. Driller notes weathered, red, silty sandstone. Possibly extremely weak, laminated, reddish brown, fine to coarse grained SANDSTONE with millet seed grains.<br>CF                                                                                                                           | 45    |
|                     |               |               |           |        |     |     |                         |           |           |        | End of Borehole at 46.00m                                                                                                                                                                                                                                                                                                                                                                                                 | 46    |
|                     |               |               |           |        |     |     |                         |           |           |        |                                                                                                                                                                                                                                                                                                                                                                                                                           | 47    |
|                     |               |               |           |        |     |     |                         |           |           |        |                                                                                                                                                                                                                                                                                                                                                                                                                           | 48    |

| Hole Diameter |          | Casing Diameter |          | Chiselling |        |          |      | Inclination and Orientation |      |             | Drilling Flush |     |      |      |        |         | Installation |        |        |           |          |
|---------------|----------|-----------------|----------|------------|--------|----------|------|-----------------------------|------|-------------|----------------|-----|------|------|--------|---------|--------------|--------|--------|-----------|----------|
| Base          | Diameter | Base            | Diameter | Top        | Base   | Duration | Tool | Top                         | Base | Inclination | Orientation    | Top | Base | Type | Colour | Min (%) | Max (%)      | Top    | Base   | Pipe Type | Diameter |
| 7.30m         | 200mm    | 7.30m           | 200mm    | 37.60m     | 38.45m | 00:15    |      |                             |      |             |                |     |      |      |        |         |              | 0.00m  | 45.00m | PLAIN     |          |
| 46.00m        | 146mm    | 46.00m          | 146mm    | 38.45m     | 38.50m | 00:45    |      |                             |      |             |                |     |      |      |        |         |              | 45.00m | 46.00m | SLOTTED   |          |
|               |          |                 |          | 38.50m     | 40.00m | 01:30    |      |                             |      |             |                |     |      |      |        |         |              |        |        |           |          |

**General Remarks**  
 Inspection pit hand dug to 1.20m bgl.  
 Coring using 146mm wireline system (Geobore S) using air / mist flush.  
 Approximate percentage by volume quantifiers as follows; rare (<5%), occasional (5-20%), frequent (20-40%) and abundant (>40%).  
 Target depth achieved and depth to bedrock proven.

**Log printed on 13/09/2022 at 13:09**

# Cable Percussive Borehole Log

BOREHOLE REFERENCE  
**RH205**  
Sheet 1 of 7

|                              |                  |                                                  |                         |                                |                       |
|------------------------------|------------------|--------------------------------------------------|-------------------------|--------------------------------|-----------------------|
| Project Name: Ten Acres Lane |                  | Client: NUVU Developments Ltd                    |                         | Date: 30/03/2022 - 20/04/2022  |                       |
| Location: Newton Heath       |                  | Contractor: Geotron Ltd                          |                         | Co-ords: E387647.28 N400164.42 |                       |
| Project No. : LD10385        |                  | Drilling Equipment: Commachio GEO305 +Dando 2500 |                         | Level : 81.36m AoD             |                       |
| Logged By<br>JP & LT         | Checked By<br>JC | Approved By<br>MP                                | SPT Energy Ratio<br>68% |                                | Final Depth<br>50.30m |

| Instal. / Backfill                                                                 | Water Strikes                                                                     | Sample and In Situ Testing |             |                              | Depth (m) | Level (m) | Legend | Stratum Description                                                                                                                                                                                                                                                                                                             | Scale |
|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------|-------------|------------------------------|-----------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|                                                                                    |                                                                                   | Depth (m)                  | Type        | Results                      |           |           |        |                                                                                                                                                                                                                                                                                                                                 |       |
|  |  | 0.00 – 1.00                | B           |                              |           |           |        | Recovered as dark brown, very sandy GRAVEL with rare cobbles sized fragments of concrete. Gravel is angular to subrounded of fine to coarse red brick, concrete, tiles, coal and mixed natural lithologies. Occasional roots and rootlets.<br>GMG                                                                               |       |
|                                                                                    |                                                                                   | 1.00 – 2.00                | B           |                              | 1.00      | 80.36     |        | Recovered as wet, dark greyish brown, sandy, angular to subangular, fine to coarse GRAVEL of plastic, slate, fabric, plastic buttons and porcelain. Occasional roots, rootlets and metal wire fragments.<br>GMG                                                                                                                 | 1     |
|                                                                                    |                                                                                   | 2.00 – 3.00                | B           |                              | 2.00      | 79.36     |        | Recovered as soft, wet, dark greyish brown, mottled red and orange in places, slightly sandy, slightly gravelly CLAY with rare cobbles sized fragments of yellow sandstone. Gravel is angular to subangular of fine to coarse red brick, concrete, sandstone, timber, ceramic and suspected slag. Occasional metal wire.<br>CMG | 2     |
|                                                                                    |                                                                                   | 3.00 – 4.00<br>3.00        | B<br>SPT(S) | N=49 (5,5/7,18,14,10)        | 3.00      | 78.36     |        | Recovered as wet, greyish brown, sandy GRAVEL with occasional cobble sized fragments of red brick. Gravel is angular to rounded of fine to coarse red brick, glass, coal, plastic, slate and timber. Occasional nails.<br>GMG                                                                                                   | 3     |
|                                                                                    |                                                                                   | 4.00 – 5.00                | B           |                              |           |           |        |                                                                                                                                                                                                                                                                                                                                 |       |
|                                                                                    |                                                                                   | 4.50                       | SPT(S)      | N=36 (13,11/17,7,7,5)        |           |           |        |                                                                                                                                                                                                                                                                                                                                 |       |
|                                                                                    |                                                                                   | 5.00 – 6.00                | B           |                              | 5.00      | 76.36     |        | Recovered as dark grey, sandy GRAVEL with occasional cobble sized fragments of red brick and suspected slag. Gravel is angular to rounded of fine to coarse concrete, suspected slag, plastic, tiles and ceramic. Occasional metals nails, metal rods, metal screws and bundles of threads of fibre.<br>GMG                     | 5     |
|                                                                                    |                                                                                   | 6.00 – 7.00<br>6.00        | B<br>SPT(S) | N=24 (1,0/1,8,7,8)           | 6.00      | 75.36     |        | Recovered as wet dark grey, sandy GRAVEL with occasional cobble sized fragments of red brick and suspected slag. Gravel is angular to rounded of fine to coarse red brick, concrete, slate, metal, plastic and timber. Rare rootlets, coils of metal wire, nails and plastic bag fragments.<br>GMG                              | 6     |
|                                                                                    |                                                                                   | 7.00 – 8.00                | B           |                              | 7.00      | 74.36     |        | Recovered as wet, dark greyish brown, sandy GRAVEL with occasional cobble sized fragments of red brick and timber. Gravel is angular to rounded of fine to coarse of red brick, concrete, timber, metal, slate, flint and mixed lithologies. Occasional metal wire, metal coils and threads of fabric.<br>GMG                   | 7     |
|                                                                                    |                                                                                   | 7.50                       | SPT(S)      | 50 (25 for 30mm/50 for 30mm) |           |           |        |                                                                                                                                                                                                                                                                                                                                 |       |
|                                                                                    |                                                                                   | 8.00 – 9.00                | B           |                              |           |           |        |                                                                                                                                                                                                                                                                                                                                 |       |
|                                                                                    |                                                                                   | 8.00 – 9.00                | B           |                              |           |           |        |                                                                                                                                                                                                                                                                                                                                 |       |
|                                                                                    |                                                                                   | 9.00 – 10.00<br>9.00       | B<br>SPT(S) | N=2 (2,0/0,0,1,1)            | 9.00      | 72.36     |        | Recovered as damp, greyish brown, sandy, angular to rounded, fine to coarse GRAVEL of red brick, slate, sandstone, plastic and mixed lithologies.<br>GMG                                                                                                                                                                        | 9     |

| Hole Diameter    |                | Casing Diameter  |                | Chiselling |            |          |      | Inclination and Orientation |      |             |             | Installation    |                  |                  |          |
|------------------|----------------|------------------|----------------|------------|------------|----------|------|-----------------------------|------|-------------|-------------|-----------------|------------------|------------------|----------|
| Depth Base       | Diameter       | Depth Base       | Diameter       | Depth Top  | Depth Base | Duration | Tool | Top                         | Base | Inclination | Orientation | Top             | Base             | Pipe Type        | Diameter |
| 12.45m<br>50.30m | 200mm<br>146mm | 12.45m<br>50.30m | 200mm<br>146mm |            |            |          |      |                             |      |             |             | 0.00m<br>48.10m | 48.10m<br>50.30m | PLAIN<br>SLOTTED |          |

**Remarks**  
Inspection pit hand dug to 1.20m bgl.  
Coring using 146mm wireline system (Geobore S) using air / mist flush.  
Approximate percentage by volume quantifiers as follows; rare (<5%), occasional (5-20%), frequent (20-40%) and abundant (>40%).  
Target depth achieved and depth to bedrock proven.  
**Log printed on 13/09/2022 at 13:09**

# Cable Percussive Borehole Log

BOREHOLE REFERENCE

**RH205**

Sheet 2 of 7

|                              |                  |                                                     |                         |                                |                       |
|------------------------------|------------------|-----------------------------------------------------|-------------------------|--------------------------------|-----------------------|
| Project Name: Ten Acres Lane |                  | Client: NUVU Developments Ltd                       |                         | Date: 30/03/2022 - 20/04/2022  |                       |
| Location: Newton Heath       |                  | Contractor: Geotron Ltd                             |                         | Co-ords: E387647.28 N400164.42 |                       |
| Project No. : LD10385        |                  | Drilling Equipment: Commachio GEO305<br>+Dando 2500 |                         | Level : 81.36m AoD             |                       |
| Logged By<br>JP & LT         | Checked By<br>JC | Approved By<br>MP                                   | SPT Energy Ratio<br>68% |                                | Final Depth<br>50.30m |

| Install. /<br>Backfill | Water<br>Strikes | Sample and In Situ Testing |        |                    | Depth<br>(m) | Level<br>(m) | Legend | Stratum Description                                                                                                                                                                                             | Scale |
|------------------------|------------------|----------------------------|--------|--------------------|--------------|--------------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|                        |                  | Depth (m)                  | Type   | Results            |              |              |        |                                                                                                                                                                                                                 |       |
|                        |                  | 10.00 – 11.00              | B      |                    | 10.00        | 71.36        |        | Recovered as damp, greyish brown, sandy, angular to rounded, fine to coarse GRAVEL of red brick, slate, sandstone, plastic and mixed lithologies.<br>GMG                                                        | 10    |
|                        |                  | 10.50                      | SPT(S) | N=4 (8,2/0,1,1,2)  | 10.75        | 70.61        |        | Recovered as damp, greyish brown, sandy GRAVEL with occasional cobble sized fragments of red brick. Gravel is angular to rounded of fine to coarse red brick, coal, slate and mixed natural lithologies.<br>GMG |       |
|                        |                  | 11.00 – 12.00              | B      |                    |              |              |        | Soft to firm, brown, slightly sandy, slightly gravelly CLAY. Gravel is subangular to rounded of fine to coarse mixed natural lithologies.<br>CGT                                                                | 11    |
|                        |                  | 12.00                      | SPT(S) | N=21 (2,3/4,5,6,6) | 12.20        | 69.16        |        |                                                                                                                                                                                                                 | 12    |
|                        |                  |                            |        |                    |              |              |        | See Next Page for Geological Information                                                                                                                                                                        | 13    |
|                        |                  |                            |        |                    |              |              |        |                                                                                                                                                                                                                 | 14    |
|                        |                  |                            |        |                    |              |              |        |                                                                                                                                                                                                                 | 15    |
|                        |                  |                            |        |                    |              |              |        | See Next Page for Geological Information<br>See Next Page for Geological Information                                                                                                                            | 16    |
|                        |                  |                            |        |                    |              |              |        |                                                                                                                                                                                                                 | 17    |
|                        |                  |                            |        |                    |              |              |        | See Next Page for Geological Information                                                                                                                                                                        |       |
|                        |                  |                            |        |                    |              |              |        | See Next Page for Geological Information                                                                                                                                                                        | 18    |
|                        |                  |                            |        |                    |              |              |        | See Next Page for Geological Information<br>See Next Page for Geological Information                                                                                                                            |       |
|                        |                  |                            |        |                    |              |              |        | See Next Page for Geological Information                                                                                                                                                                        | 19    |

| Hole Diameter    |                | Casing Diameter  |                | Chiselling |            |          |      | Inclination and Orientation |      |             |             | Installation    |                  |                  |          |
|------------------|----------------|------------------|----------------|------------|------------|----------|------|-----------------------------|------|-------------|-------------|-----------------|------------------|------------------|----------|
| Depth Base       | Diameter       | Depth Base       | Diameter       | Depth Top  | Depth Base | Duration | Tool | Top                         | Base | Inclination | Orientation | Top             | Base             | Pipe Type        | Diameter |
| 12.45m<br>50.30m | 200mm<br>146mm | 12.45m<br>50.30m | 200mm<br>146mm |            |            |          |      |                             |      |             |             | 0.00m<br>48.10m | 48.10m<br>50.30m | PLAIN<br>SLOTTED |          |
|                  |                |                  |                |            |            |          |      |                             |      |             |             |                 |                  |                  |          |

**Remarks**  
 Inspection pit hand dug to 1.20m bgl.  
 Coring using 146mm wireline system (Geobore S) using air / mist flush.  
 Approximate percentage by volume quantifiers as follows; rare (<5%), occasional (5-20%), frequent (20-40%) and abundant (>40%).  
 Target depth achieved and depth to bedrock proven.

Log printed on 13/09/2022 at 13:09

# Rotary Cored Borehole Log

BOREHOLE REFERENCE

**RH205**

Sheet 3 of 7

|                              |                                                  |                                |
|------------------------------|--------------------------------------------------|--------------------------------|
| Project Name: Ten Acres Lane | Client: NUVU Developments Ltd                    | Date: 30/03/2022 - 20/04/2022  |
| Location: Newton Heath       | Contractor: Geotron Ltd                          | Co-ords: E387647.28 N400164.42 |
| Project No. : LD10385        | Drilling Equipment: Commachio GEO305 +Dando 2500 | Level : 81.36m AoD             |
| Logged By<br>JP & LT         | Checked By<br>JC                                 | Approved By<br>MP              |
| Bit Type                     | Core Barrel                                      |                                |

| Instal. / Backfill | Water Strikes | Depth (m)     | Type / FI | Coring |     |     | Diameter Recovery (SPT) | Depth (m) | Level (m) | Legend | Stratum Description                                                                                                                                                                                                | Scale |
|--------------------|---------------|---------------|-----------|--------|-----|-----|-------------------------|-----------|-----------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|                    |               |               |           | TCR    | SCR | RQD |                         |           |           |        |                                                                                                                                                                                                                    |       |
|                    |               |               |           |        |     |     |                         |           |           |        | See Previous Page for Geological Information                                                                                                                                                                       | 10    |
|                    |               |               |           |        |     |     |                         |           |           |        | See Previous Page for Geological Information                                                                                                                                                                       |       |
|                    |               |               |           |        |     |     |                         |           |           |        | See Previous Page for Geological Information                                                                                                                                                                       | 11    |
|                    |               |               |           |        |     |     |                         |           |           |        |                                                                                                                                                                                                                    | 12    |
|                    |               | 12.80 - 12.80 | CS        | 100    | 100 |     | 109mm                   |           |           |        | Stiff, brown, slightly sandy, slightly gravelly CLAY. Gravel is subangular to subrounded of fine to coarse sandstone, mudstone and mixed natural lithologies. Sand is fine to medium. CGT                          |       |
|                    |               | 12.80 - 14.30 |           | 100    | 100 |     | 109mm                   |           |           |        |                                                                                                                                                                                                                    | 13    |
|                    |               |               |           |        |     |     |                         |           |           |        |                                                                                                                                                                                                                    | 14    |
|                    |               | 14.30 - 15.80 |           | 93     | 93  |     | 109mm                   |           |           |        | 14.52m : Single subangular sandstone cobble at 14.52m.                                                                                                                                                             | 15    |
|                    |               |               |           |        |     |     |                         | 15.69     | 65.67     |        |                                                                                                                                                                                                                    |       |
|                    |               | 15.80 - 17.30 |           | 100    | 100 |     | 109mm                   | 15.80     | 65.56     |        | Zone of core loss. Core loss presumed due to core being dropped or scrubbed. Driller notes firm, gravelly, silty CLAY. CGT                                                                                         | 16    |
|                    |               |               |           |        |     |     |                         |           |           |        | Stiff, brown, slightly sandy, slightly gravelly CLAY. Gravel is subangular to subrounded of fine to coarse sandstone, mudstone and mixed natural lithologies. Sand is fine to medium. CGT                          |       |
|                    |               |               |           |        |     |     |                         |           |           |        | Zone of core loss. Core loss presumed due to softer and / more granular materials. Driller notes soft to firm, gravelly, silty CLAY with sand lenses. CGT                                                          | 17    |
|                    |               | 17.30 - 18.80 |           | 61     | 47  |     | 109mm                   | 17.30     | 64.06     |        | Recovered core comprises stiff, brown, slightly sandy, slightly gravelly CLAY. Gravel is subangular to subrounded of fine to coarse sandstone, mudstone and mixed natural lithologies. Sand is fine to medium. CGT |       |
|                    |               |               |           |        |     |     |                         | 17.89     | 63.47     |        | Recovered material comprises brown, silty, clayey, fine to medium SAND. GGT                                                                                                                                        | 18    |
|                    |               |               |           |        |     |     |                         | 18.33     | 63.03     |        | Recovered core comprises stiff, brown, slightly sandy, slightly gravelly CLAY. Gravel is subangular to subrounded of fine to coarse sandstone, mudstone and mixed natural lithologies. Sand is fine to medium. CGT |       |
|                    |               |               |           |        |     |     |                         | 18.54     | 62.82     |        |                                                                                                                                                                                                                    |       |
|                    |               | 18.80 - 20.30 |           | 97     | 97  |     | 109mm                   | 18.80     | 62.56     |        | Stiff, brown, slightly sandy, slightly gravelly CLAY. Gravel is subangular to subrounded of fine to coarse sandstone, mudstone and mixed natural lithologies. Sand is fine to medium. CGT                          | 19    |

| Hole Diameter |          | Casing Diameter |          | Chiselling |      |          |      | Inclination and Orientation |      |             |             | Drilling Flush |      |      |        |         |         | Installation |        |           |          |
|---------------|----------|-----------------|----------|------------|------|----------|------|-----------------------------|------|-------------|-------------|----------------|------|------|--------|---------|---------|--------------|--------|-----------|----------|
| Base          | Diameter | Base            | Diameter | Top        | Base | Duration | Tool | Top                         | Base | Inclination | Orientation | Top            | Base | Type | Colour | Min (%) | Max (%) | Top          | Base   | Pipe Type | Diameter |
| 12.45m        | 200mm    | 12.45m          | 200mm    |            |      |          |      |                             |      |             |             |                |      |      |        |         |         | 0.00m        | 48.10m | PLAIN     |          |
| 50.30m        | 146mm    | 50.30m          | 146mm    |            |      |          |      |                             |      |             |             |                |      |      |        |         |         | 48.10m       | 50.30m | SLOTTED   |          |

## General Remarks

Inspection pit hand dug to 1.20m bgl.

Coring using 146mm wireline system (Geobore S) using air / mist flush.

Approximate percentage by volume quantifiers as follows; rare (&lt;5%), occasional (5-20%), frequent (20-40%) and abundant (&gt;40%).

Target depth achieved and depth to bedrock proven.

Log printed on 13/09/2022 at 13:09

# Rotary Cored Borehole Log

BOREHOLE REFERENCE  
**RH205**  
Sheet 4 of 7

|                              |                                                  |                                           |
|------------------------------|--------------------------------------------------|-------------------------------------------|
| Project Name: Ten Acres Lane | Client: NUVU Developments Ltd                    | Date: 30/03/2022 - 20/04/2022             |
| Location: Newton Heath       | Contractor: Geotron Ltd                          | Co-ords: E387647.28 N400164.42            |
| Project No. : LD10385        | Drilling Equipment: Commachio GEO305 +Dando 2500 | Level : 81.36m AoD<br>Final Depth: 50.30m |

|                      |                  |                   |          |             |
|----------------------|------------------|-------------------|----------|-------------|
| Logged By<br>JP & LT | Checked By<br>JC | Approved By<br>MP | Bit Type | Core Barrel |
|----------------------|------------------|-------------------|----------|-------------|

| Instal. / Backfill | Water Strikes | Depth (m)     | Type / FI | Coring |     |     | Diameter Recovery (SPT) | Depth (m)      | Level (m)      | Legend | Stratum Description                                                                                                                                                                          | Scale |
|--------------------|---------------|---------------|-----------|--------|-----|-----|-------------------------|----------------|----------------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|                    |               |               |           | TCR    | SCR | RQD |                         |                |                |        |                                                                                                                                                                                              |       |
|                    |               |               |           |        |     |     |                         | 20.25<br>20.30 | 61.11<br>61.06 |        | Stiff, brown, slightly sandy, slightly gravelly CLAY. Gravel is subangular to subrounded of fine to coarse sandstone, mudstone and mixed natural lithologies. Sand is fine to medium.<br>CGT | 20    |
|                    |               | 20.30 - 21.80 |           | 100    | 100 |     | 109mm                   |                |                |        | Zone of core loss. Core loss presumed due to core being dropped or scrubbed. Driller notes soft to firm, gravelly, silty CLAY with sand lenses.<br>CGT                                       | 21    |
|                    |               | 21.80 - 23.30 |           | 100    | 100 |     | 109mm                   |                |                |        |                                                                                                                                                                                              | 22    |
|                    |               | 23.30 - 24.80 |           | 100    | 100 |     | 109mm                   |                |                |        |                                                                                                                                                                                              | 23    |
|                    |               | 24.80 - 26.30 |           | 100    | 100 |     | 109mm                   |                |                |        |                                                                                                                                                                                              | 24    |
|                    |               | 26.30 - 27.80 |           | 100    | 100 |     | 109mm                   |                |                |        |                                                                                                                                                                                              | 25    |
|                    |               | 27.80 - 29.30 |           | 100    | 100 |     | 109mm                   |                |                |        |                                                                                                                                                                                              | 26    |
|                    |               |               |           |        |     |     |                         | 29.02          | 52.34          |        |                                                                                                                                                                                              | 27    |
|                    |               |               |           |        |     |     |                         |                |                |        |                                                                                                                                                                                              | 28    |
|                    |               |               |           |        |     |     |                         |                |                |        | Very stiff, laminated, brown, slightly sandy CLAY with occasional thin laminations of brown, silty, fine sand.<br>CGT                                                                        | 29    |

| Hole Diameter    |                | Casing Diameter  |                | Chiselling |      |          |      | Inclination and Orientation |      |             |             | Drilling Flush |      |      |        |         |         | Installation    |                  |                  |          |
|------------------|----------------|------------------|----------------|------------|------|----------|------|-----------------------------|------|-------------|-------------|----------------|------|------|--------|---------|---------|-----------------|------------------|------------------|----------|
| Base             | Diameter       | Base             | Diameter       | Top        | Base | Duration | Tool | Top                         | Base | Inclination | Orientation | Top            | Base | Type | Colour | Min (%) | Max (%) | Top             | Base             | Pipe Type        | Diameter |
| 12.45m<br>50.30m | 200mm<br>146mm | 12.45m<br>50.30m | 200mm<br>146mm |            |      |          |      |                             |      |             |             |                |      |      |        |         |         | 0.00m<br>48.10m | 48.10m<br>50.30m | PLAIN<br>SLOTTED |          |

**General Remarks**  
 Inspection pit hand dug to 1.20m bgl.  
 Coring using 146mm wireline system (Geobore S) using air / mist flush.  
 Approximate percentage by volume quantifiers as follows; rare (<5%), occasional (5-20%), frequent (20-40%) and abundant (>40%).  
 Target depth achieved and depth to bedrock proven.  
**Log printed on 13/09/2022 at 13:09**

# Rotary Cored Borehole Log

BOREHOLE REFERENCE  
**RH205**  
Sheet 5 of 7

|                              |                                                     |                                           |
|------------------------------|-----------------------------------------------------|-------------------------------------------|
| Project Name: Ten Acres Lane | Client: NUVU Developments Ltd                       | Date: 30/03/2022 - 20/04/2022             |
| Location: Newton Heath       | Contractor: Geotron Ltd                             | Co-ords: E387647.28 N400164.42            |
| Project No. : LD10385        | Drilling Equipment: Commachio GEO305<br>+Dando 2500 | Level : 81.36m AoD<br>Final Depth: 50.30m |

|                      |                  |                   |          |             |
|----------------------|------------------|-------------------|----------|-------------|
| Logged By<br>JP & LT | Checked By<br>JC | Approved By<br>MP | Bit Type | Core Barrel |
|----------------------|------------------|-------------------|----------|-------------|

| Install. /<br>Backfill | Water<br>Strikes | Depth<br>(m)  | Type<br>/ FI | Coring |     |     | Diameter<br>Recovery<br>(SPT) | Depth<br>(m) | Level<br>(m) | Legend | Stratum Description                                                                                                                                                  | Scale |
|------------------------|------------------|---------------|--------------|--------|-----|-----|-------------------------------|--------------|--------------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|                        |                  |               |              | TCR    | SCR | RQD |                               |              |              |        |                                                                                                                                                                      |       |
|                        |                  | 29.30 - 30.80 |              | 81     | 81  |     | 109mm                         | 30.52        | 50.84        |        | Very stiff, laminated, brown, slightly sandy CLAY with occasional thin laminations of brown, silty, fine sand. CGT                                                   | 30    |
|                        |                  |               |              |        |     |     |                               | 30.80        | 50.56        |        | Zone of core loss. Core loss presumed due to softer and / more granular materials. Driller notes soft to firm, gravelly, silty CLAY with sand lenses. CGT            | 31    |
|                        |                  | 30.80 - 32.30 |              | 93     | 93  |     | 109mm                         | 31.93        | 49.43        |        | Very stiff, laminated, brown, slightly sandy CLAY with occasional thin laminations of brown, silty, fine sand. CGT                                                   | 32    |
|                        |                  |               |              |        |     |     |                               | 32.20        | 49.16        |        | Very stiff, brown, slightly sandy CLAY. Sand is fine. CGT                                                                                                            | 32    |
|                        |                  | 32.30 - 33.80 |              | 84     | 82  |     | 109mm                         | 32.30        | 49.06        |        | Zone of core loss. Core loss presumed due to softer and / more granular materials. Driller notes soft to firm, gravelly, silty CLAY with sand lenses. CGT            | 33    |
|                        |                  |               |              |        |     |     |                               | 33.16        | 48.20        |        | Very stiff, brown, slightly sandy CLAY. Sand is fine. CGT                                                                                                            | 33    |
|                        |                  |               |              |        |     |     |                               | 33.56        | 47.80        |        | Stiff, brown, slightly sandy, gravelly CLAY. Gravel is subangular to subrounded of fine to coarse sandstone, mudstone and mixed natural lithologies. CGT             | 34    |
|                        |                  | 33.80 - 35.30 |              | 100    | 100 |     | 109mm                         | 33.80        | 47.56        |        | Zone of core loss. Core loss presumed due to softer and / more granular materials. Driller notes soft to firm, gravelly, silty CLAY with sand lenses. CGT            | 34    |
|                        |                  |               |              |        |     |     |                               |              |              |        | Stiff, brown, slightly sandy, gravelly CLAY. Gravel is subangular to subrounded of fine to coarse sandstone, mudstone and mixed natural lithologies. CGT             | 35    |
|                        |                  | 35.30 - 36.80 |              | 99     | 99  |     | 109mm                         |              |              |        |                                                                                                                                                                      | 36    |
|                        |                  |               |              |        |     |     |                               | 36.80        | 44.56        |        | Zone of core loss. Core loss presumed due to softer and / more granular materials. Driller notes firm, gravelly CLAY with sand lenses and cobbles. CGT               | 37    |
|                        |                  | 36.80 - 38.30 |              | 88     | 69  |     | 109mm                         | 36.98        | 44.38        |        | Stiff, brown, slightly sandy, gravelly CLAY. Gravel is subangular to subrounded of fine to coarse sandstone, mudstone and mixed natural lithologies. CGT             | 37    |
|                        |                  |               |              |        |     |     |                               | 38.00        | 43.36        |        | Dark grey, very sandy, clayey subangular to subrounded, fine to coarse GRAVEL of mudstone, sandstone and mixed natural lithologies. GGT                              | 38    |
|                        |                  |               |              |        |     |     |                               | 38.30        | 43.06        |        | Zone of core loss. Core loss presumed due to granular materials. Probably as above and below. GGT                                                                    | 38    |
|                        |                  | 38.30 - 39.80 |              | 75     | 0   |     | 109mm                         | 38.68        | 42.68        |        | Recovered material comprises dark grey, very sandy, clayey subangular to subrounded, fine to coarse GRAVEL of mudstone, sandstone and mixed natural lithologies. GGT | 39    |

| Hole Diameter |          | Casing Diameter |          | Chiselling |      |          |      | Inclination and Orientation |      |             |             | Drilling Flush |      |      |        |         |         | Installation |        |           |          |
|---------------|----------|-----------------|----------|------------|------|----------|------|-----------------------------|------|-------------|-------------|----------------|------|------|--------|---------|---------|--------------|--------|-----------|----------|
| Base          | Diameter | Base            | Diameter | Top        | Base | Duration | Tool | Top                         | Base | Inclination | Orientation | Top            | Base | Type | Colour | Min (%) | Max (%) | Top          | Base   | Pipe Type | Diameter |
| 12.45m        | 200mm    | 12.45m          | 200mm    |            |      |          |      |                             |      |             |             |                |      |      |        |         |         | 0.00m        | 48.10m | PLAIN     |          |
| 50.30m        | 146mm    | 50.30m          | 146mm    |            |      |          |      |                             |      |             |             |                |      |      |        |         |         | 48.10m       | 50.30m | SLOTTED   |          |

**General Remarks**  
 Inspection pit hand dug to 1.20m bgl.  
 Coring using 146mm wireline system (Geobore S) using air / mist flush.  
 Approximate percentage by volume quantifiers as follows; rare (<5%), occasional (5-20%), frequent (20-40%) and abundant (>40%).  
 Target depth achieved and depth to bedrock proven.

Log printed on 13/09/2022 at 13:09

# Rotary Cored Borehole Log

BOREHOLE REFERENCE

**RH205**

Sheet 6 of 7

|                              |                                                  |                                        |
|------------------------------|--------------------------------------------------|----------------------------------------|
| Project Name: Ten Acres Lane | Client: NUVU Developments Ltd                    | Date: 30/03/2022 - 20/04/2022          |
| Location: Newton Heath       | Contractor: Geotron Ltd                          | Co-ords: E387647.28 N400164.42         |
| Project No. : LD10385        | Drilling Equipment: Commachio GEO305 +Dando 2500 | Level : 81.36m AoD Final Depth: 50.30m |

|                      |                  |                   |          |             |
|----------------------|------------------|-------------------|----------|-------------|
| Logged By<br>JP & LT | Checked By<br>JC | Approved By<br>MP | Bit Type | Core Barrel |
|----------------------|------------------|-------------------|----------|-------------|

| Instal. / Backfill | Water Strikes | Depth (m)     | Type / FI | Coring |     |     | Diameter Recovery (SPT) | Depth (m) | Level (m) | Legend | Stratum Description                                                                                                                                                                                                                                                                       | Scale |
|--------------------|---------------|---------------|-----------|--------|-----|-----|-------------------------|-----------|-----------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|                    |               |               |           | TCR    | SCR | RQD |                         |           |           |        |                                                                                                                                                                                                                                                                                           |       |
|                    |               |               |           |        |     |     |                         | 39.80     | 41.56     |        | Recovered material comprises dark grey, very sandy, clayey subangular to subrounded, fine to coarse GRAVEL of mudstone, sandstone and mixed natural lithologies. GGT                                                                                                                      | 40    |
|                    |               | 39.80 - 41.30 |           | 47     | 0   |     | 109mm                   |           |           |        | Partial recovery. Core loss presumed due to granular materials. Recovered material comprises dark grey, very sandy, clayey subangular to subrounded, fine to coarse GRAVEL of mudstone, sandstone and mixed natural lithologies. GGT                                                      | 41    |
|                    |               | 41.30 - 42.80 |           | 47     | 16  |     | 109mm                   |           |           |        |                                                                                                                                                                                                                                                                                           | 42    |
|                    |               | 42.80 - 44.30 |           | 100    | 100 |     | 109mm                   | 42.80     | 38.56     |        | Very stiff, brown, slightly sandy, slightly gravelly CLAY. Gravel is subangular to subrounded of fine to coarse sandstone, mudstone, coal and mixed natural lithologies. CGT                                                                                                              | 43    |
|                    |               | 44.30 - 45.80 |           | 100    | 100 |     | 109mm                   |           |           |        |                                                                                                                                                                                                                                                                                           | 44    |
|                    |               | 45.80 - 47.30 |           | 60     | 60  |     | 109mm                   | 45.80     | 35.56     |        | Recovered core comprises very stiff, brown, slightly sandy, slightly gravelly CLAY. Gravel is subangular to subrounded of fine to coarse sandstone, mudstone, coal and mixed natural lithologies. CGT                                                                                     | 45    |
|                    |               |               |           |        |     |     |                         | 46.80     | 34.56     |        | Zone of core loss. Core loss presumed due to softer and / or more granular materials. Driller notes firm, gravelly CLAY with sand lenses and cobbles. CGT                                                                                                                                 | 46    |
|                    |               |               |           |        |     |     |                         | 47.20     | 34.16     |        | Recovered material comprises light grey, rounded, coarse GRAVEL and COBBLES of sandstone and quartzite. GGT                                                                                                                                                                               | 47    |
|                    |               |               |           |        |     |     |                         | 47.30     | 34.06     |        | Minimal recovery. Core loss presumed due to more granular materials. Drillers notes sand with cobbles. Recovered material comprises reddish brown, possibly sandy, subangular to subrounded, coarse GRAVEL and COBBLES of sandstone, mudstone, diorite and mixed natural lithologies. GGT | 47    |
|                    |               | 47.30 - 48.80 |           | 66     | 47  | 30  | 109mm                   | 48.10     | 33.26     |        | Recovered as damp, reddish brown, slightly gravelly SAND. Gravel is subangular to rounded of fine sandstone and rare mudstone. Drillers note weathered sandstone. Possibly extremely weak, reddish brown, fine to coarse grained sandstone. CF                                            | 48    |
|                    |               |               |           |        |     |     |                         | 48.60     | 32.76     |        | Extremely weak, laminated, reddish brown, fine to coarse grained SANDSTONE with millet seed grains. CF                                                                                                                                                                                    |       |
|                    |               |               |           |        |     |     |                         | 48.80     | 32.56     |        | Weak, thinly laminated, reddish brown, fine to coarse grained SANDSTONE with millet seed grains. CF                                                                                                                                                                                       |       |

| Hole Diameter |          | Casing Diameter |          | Chiselling |      |          |      | Inclination and Orientation |      |             |             | Drilling Flush |      |      |        |         |         | Installation |        |           |          |
|---------------|----------|-----------------|----------|------------|------|----------|------|-----------------------------|------|-------------|-------------|----------------|------|------|--------|---------|---------|--------------|--------|-----------|----------|
| Base          | Diameter | Base            | Diameter | Top        | Base | Duration | Tool | Top                         | Base | Inclination | Orientation | Top            | Base | Type | Colour | Min (%) | Max (%) | Top          | Base   | Pipe Type | Diameter |
| 12.45m        | 200mm    | 12.45m          | 200mm    |            |      |          |      |                             |      |             |             |                |      |      |        |         |         | 0.00m        | 48.10m | PLAIN     |          |
| 50.30m        | 146mm    | 50.30m          | 146mm    |            |      |          |      |                             |      |             |             |                |      |      |        |         |         | 48.10m       | 50.30m | SLOTTED   |          |

## General Remarks

Inspection pit hand dug to 1.20m bgl.

Coring using 146mm wireline system (Geobore S) using air / mist flush.

Approximate percentage by volume quantifiers as follows; rare (<5%), occasional (5-20%), frequent (20-40%) and abundant (>40%).

Target depth achieved and depth to bedrock proven.

Log printed on 13/09/2022 at 13:09

# Rotary Cored Borehole Log

BOREHOLE REFERENCE

**RH205**

Sheet 7 of 7

|                              |                                                  |                                |
|------------------------------|--------------------------------------------------|--------------------------------|
| Project Name: Ten Acres Lane | Client: NUVU Developments Ltd                    | Date: 30/03/2022 - 20/04/2022  |
| Location: Newton Heath       | Contractor: Geotron Ltd                          | Co-ords: E387647.28 N400164.42 |
| Project No. : LD10385        | Drilling Equipment: Commachio GEO305 +Dando 2500 | Level : 81.36m AoD             |
| Logged By<br>JP & LT         | Checked By<br>JC                                 | Approved By<br>MP              |
| Bit Type                     | Core Barrel                                      |                                |

| Install. / Backfill | Water Strikes | Depth (m)     | Type / FI | Coring |     |     | Diameter Recovery (SPT) | Depth (m) | Level (m) | Legend | Stratum Description                                                                                                                                                                       | Scale |
|---------------------|---------------|---------------|-----------|--------|-----|-----|-------------------------|-----------|-----------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|                     |               |               |           | TCR    | SCR | RQD |                         |           |           |        |                                                                                                                                                                                           |       |
|                     |               | 48.80 - 50.30 |           | 93     | 87  | 13  | 109mm                   | 50.30     | 31.06     |        | Weak, thinly laminated, reddish brown, fine to coarse grained SANDSTONE with millet seed grains.<br>CF<br><i>49.50m - 49.60m : Light greyish white in colour between 49.50 and 49.60m</i> | 50    |
|                     |               |               |           |        |     |     |                         |           |           |        | End of Borehole at 50.30m                                                                                                                                                                 | 51    |
|                     |               |               |           |        |     |     |                         |           |           |        |                                                                                                                                                                                           | 52    |
|                     |               |               |           |        |     |     |                         |           |           |        |                                                                                                                                                                                           | 53    |
|                     |               |               |           |        |     |     |                         |           |           |        |                                                                                                                                                                                           | 54    |
|                     |               |               |           |        |     |     |                         |           |           |        |                                                                                                                                                                                           | 55    |
|                     |               |               |           |        |     |     |                         |           |           |        |                                                                                                                                                                                           | 56    |
|                     |               |               |           |        |     |     |                         |           |           |        |                                                                                                                                                                                           | 57    |
|                     |               |               |           |        |     |     |                         |           |           |        |                                                                                                                                                                                           | 58    |

| Hole Diameter |          | Casing Diameter |          | Chiselling |      |          |      | Inclination and Orientation |      |             |             | Drilling Flush |      |      |        |         |         | Installation |        |           |          |
|---------------|----------|-----------------|----------|------------|------|----------|------|-----------------------------|------|-------------|-------------|----------------|------|------|--------|---------|---------|--------------|--------|-----------|----------|
| Base          | Diameter | Base            | Diameter | Top        | Base | Duration | Tool | Top                         | Base | Inclination | Orientation | Top            | Base | Type | Colour | Min (%) | Max (%) | Top          | Base   | Pipe Type | Diameter |
| 12.45m        | 200mm    | 12.45m          | 200mm    |            |      |          |      |                             |      |             |             |                |      |      |        |         |         | 0.00m        | 48.10m | PLAIN     |          |
| 50.30m        | 146mm    | 50.30m          | 146mm    |            |      |          |      |                             |      |             |             |                |      |      |        |         |         | 48.10m       | 50.30m | SLOTTED   |          |

## General Remarks

Inspection pit hand dug to 1.20m bgl.

Coring using 146mm wireline system (Geobore S) using air / mist flush.

Approximate percentage by volume quantifiers as follows; rare (<5%), occasional (5-20%), frequent (20-40%) and abundant (>40%).

Target depth achieved and depth to bedrock proven.

**Log printed on 13/09/2022 at 13:09**

# Cable Percussive Borehole Log

BOREHOLE REFERENCE

**RH206**

Sheet 1 of 6

|                              |                  |                                                  |                       |                                |  |
|------------------------------|------------------|--------------------------------------------------|-----------------------|--------------------------------|--|
| Project Name: Ten Acres Lane |                  | Client: NUVU Developments Ltd                    |                       | Date: 14/03/2022 - 23/03/2022  |  |
| Location: Newton Heath       |                  | Contractor: Geotron Ltd                          |                       | Co-ords: E387215.79 N400186.21 |  |
| Project No. : LD10385        |                  | Drilling Equipment: Commachio GEO305 +Dando 2500 |                       | Level : 76.92m AoD             |  |
| Logged By<br>JP & MS         | Checked By<br>JC | Approved By<br>MP                                | SPT Energy Ratio<br>% | Final Depth<br>48.60m          |  |

| Install. / Backfill                                                                | Sample and In Situ Testing |      |         | Depth (m) | Level (m) | Legend                                                                              | Stratum Description                                      | Scale |
|------------------------------------------------------------------------------------|----------------------------|------|---------|-----------|-----------|-------------------------------------------------------------------------------------|----------------------------------------------------------|-------|
|                                                                                    | Depth (m)                  | Type | Results |           |           |                                                                                     |                                                          |       |
|  |                            |      |         | 0.25      | 76.67     |    | Driller notes TOPSOIL.<br>TF                             | 1     |
|                                                                                    |                            |      |         |           |           |    | Driller notes black ash, bricks, and bits of clay.<br>CW |       |
|                                                                                    |                            |      |         | 1.20      | 75.72     |    | Drillers note ash and brick fill.<br>CW                  | 2     |
|                                                                                    |                            |      |         |           |           |    |                                                          |       |
|                                                                                    |                            |      |         |           |           |    |                                                          | 3     |
|                                                                                    |                            |      |         |           |           |    |                                                          |       |
|                                                                                    |                            |      |         | 4.00      | 72.92     |    | Driller notes firm brown / grey CLAY.<br>CGT             | 4     |
|                                                                                    |                            |      |         |           |           |    |                                                          |       |
|                                                                                    |                            |      |         | 5.00      | 71.92     |   | See Next Page for Geological Information                 | 5     |
|                                                                                    |                            |      |         |           |           |  | See Next Page for Geological Information                 |       |
|  |                            |      |         |           |           |  | See Next Page for Geological Information                 | 6     |
|                                                                                    |                            |      |         |           |           |  | See Next Page for Geological Information                 |       |
|                                                                                    |                            |      |         |           |           |  | See Next Page for Geological Information                 | 7     |
|                                                                                    |                            |      |         |           |           |  | See Next Page for Geological Information                 |       |
|                                                                                    |                            |      |         |           |           |  | See Next Page for Geological Information                 | 8     |
|                                                                                    |                            |      |         |           |           |  | See Next Page for Geological Information                 |       |
|                                                                                    |                            |      |         |           |           |  | See Next Page for Geological Information                 | 9     |
|                                                                                    |                            |      |         |           |           |  | See Next Page for Geological Information                 |       |
|                                                                                    |                            |      |         |           |           |  | See Next Page for Geological Information                 |       |
|                                                                                    |                            |      |         |           |           |  | See Next Page for Geological Information                 |       |

| Hole Diameter   |                | Casing Diameter |                | Chiselling |            |          |      | Inclination and Orientation |      |             |             | Installation    |                  |                  |          |
|-----------------|----------------|-----------------|----------------|------------|------------|----------|------|-----------------------------|------|-------------|-------------|-----------------|------------------|------------------|----------|
| Depth Base      | Diameter       | Depth Base      | Diameter       | Depth Top  | Depth Base | Duration | Tool | Top                         | Base | Inclination | Orientation | Top             | Base             | Pipe Type        | Diameter |
| 8.50m<br>48.60m | 200mm<br>146mm | 8.50m<br>48.60m | 200mm<br>146mm |            |            |          |      |                             |      |             |             | 0.00m<br>45.00m | 45.00m<br>48.00m | PLAIN<br>SLOTTED |          |

## Remarks

Inspection pit hand dug to 1.20m bgl.  
 Coring using 146mm wireline system (Geobore S) using air / mist flush.  
 Approximate percentage by volume quantifiers as follows; rare (<5%), occasional (5-20%), frequent (20-40%) and abundant (>40%).  
 Target depth achieved and depth to bedrock proven.

Log printed on 13/09/2022 at 13:09

# Rotary Cored Borehole Log

BOREHOLE REFERENCE

**RH206**

Sheet 2 of 6

|                              |                                                  |                                |
|------------------------------|--------------------------------------------------|--------------------------------|
| Project Name: Ten Acres Lane | Client: NUVU Developments Ltd                    | Date: 14/03/2022 - 23/03/2022  |
| Location: Newton Heath       | Contractor: Geotron Ltd                          | Co-ords: E387215.79 N400186.21 |
| Project No. : LD10385        | Drilling Equipment: Commachio GEO305 +Dando 2500 | Level : 76.92m AoD             |
| Logged By<br>JP & MS         | Checked By<br>JC                                 | Approved By<br>MP              |
| Bit Type                     | Core Barrel                                      |                                |

| Install. / Backfill | Water Strikes | Depth (m)    | Type / FI | Coring |     |       | Diameter Recovery (SPT) | Depth (m) | Level (m) | Legend | Stratum Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Scale |
|---------------------|---------------|--------------|-----------|--------|-----|-------|-------------------------|-----------|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|                     |               |              |           | TCR    | SCR | RQD   |                         |           |           |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       |
|                     |               |              |           |        |     |       |                         |           |           |        | See Previous Page for Geological Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |
|                     |               |              |           |        |     |       |                         |           |           |        | See Previous Page for Geological Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |
|                     |               |              |           |        |     |       |                         |           |           |        | See Previous Page for Geological Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1     |
|                     |               |              |           |        |     |       |                         |           |           |        | See Previous Page for Geological Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2     |
|                     |               |              |           |        |     |       |                         |           |           |        | See Previous Page for Geological Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 3     |
|                     |               |              |           |        |     |       |                         |           |           |        | See Previous Page for Geological Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 4     |
|                     |               | 5.00 - 6.50  | CS        | 85     | 63  | 109mm |                         | 5.13      | 71.79     |        | Stiff, light brown, mottled yellowish orange, slightly sandy, slightly gravelly CLAY. Gravel is angular to subrounded of fine to coarse mudstone and quartzite.<br>CGT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 5     |
|                     |               | 6.00 - 6.45  |           |        |     |       |                         | 5.25      | 71.67     |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       |
|                     |               |              |           |        |     |       |                         | 5.52      | 71.40     |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       |
|                     |               |              |           |        |     |       |                         | 6.25      | 70.67     |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       |
|                     |               | 6.50 - 8.50  | CS        | 27     | 13  | 109mm |                         | 6.50      | 70.42     |        | Stiff, dark brown to brown, slightly sandy, slightly gravelly CLAY. Gravel is angular to subrounded of fine to coarse mudstone, sandstone and quartzite.<br>CGT<br>Zone of core loss. Core loss presumed due to softer and / or more granular materials. Driller notes very soft to stiff CLAY.<br>CGT<br>Partial recovery. Core loss due to core being dropped down borehole and then scrubbed. Recovered core comprises firm to stiff, light brown to brown, slightly gravelly, sandy CLAY. Gravel is angular to subrounded of fine to coarse mudstone and sandstone.<br>CGT<br>Zone of core loss. Core loss due to core being dropped down borehole and then scrubbed. Driller notes dense CLAY.<br>CGT | 7     |
|                     |               |              |           |        |     |       |                         | 8.50      | 68.42     |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       |
|                     |               |              |           |        |     |       |                         | 8.75      | 68.17     |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       |
|                     |               |              |           |        |     |       |                         | 9.58      | 67.34     |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       |
|                     |               | 8.50 - 10.00 | CS        | 83     | 66  | 109mm |                         |           |           |        | Stiff, brown to reddish brown, slightly sandy, slightly gravelly CLAY. Gravel is angular to subrounded of fine to coarse mudstone and sandstone.<br>CGT<br>Stiff, brown to dark reddish brown, slightly gravelly, sandy CLAY. Gravel is angular to subrounded of fine to coarse mudstone and sandstone.<br>CGT                                                                                                                                                                                                                                                                                                                                                                                             | 9     |
|                     |               |              |           |        |     |       |                         |           |           |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       |
|                     |               |              |           |        |     |       |                         |           |           |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       |
|                     |               |              |           |        |     |       |                         |           |           |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       |

| Hole Diameter |          | Casing Diameter |          | Chiselling |      |          |      | Inclination and Orientation |      |             |             | Drilling Flush |      |      |        |         |         | Installation |        |           |          |
|---------------|----------|-----------------|----------|------------|------|----------|------|-----------------------------|------|-------------|-------------|----------------|------|------|--------|---------|---------|--------------|--------|-----------|----------|
| Base          | Diameter | Base            | Diameter | Top        | Base | Duration | Tool | Top                         | Base | Inclination | Orientation | Top            | Base | Type | Colour | Min (%) | Max (%) | Top          | Base   | Pipe Type | Diameter |
| 8.50m         | 200mm    | 8.50m           | 200mm    |            |      |          |      |                             |      |             |             |                |      |      |        |         |         | 0.00m        | 45.00m | PLAIN     |          |
| 48.60m        | 146mm    | 48.60m          | 146mm    |            |      |          |      |                             |      |             |             |                |      |      |        |         |         | 45.00m       | 48.00m | SLOTTED   |          |

## General Remarks

Inspection pit hand dug to 1.20m bgl.

Coring using 146mm wireline system (Geobore S) using air / mist flush.

Approximate percentage by volume quantifiers as follows; rare (&lt;5%), occasional (5-20%), frequent (20-40%) and abundant (&gt;40%).

Target depth achieved and depth to bedrock proven.

Log printed on 13/09/2022 at 13:09

# Rotary Cored Borehole Log

BOREHOLE REFERENCE  
**RH206**  
Sheet 3 of 6

|                              |                                                     |                                           |
|------------------------------|-----------------------------------------------------|-------------------------------------------|
| Project Name: Ten Acres Lane | Client: NUVU Developments Ltd                       | Date: 14/03/2022 - 23/03/2022             |
| Location: Newton Heath       | Contractor: Geotron Ltd                             | Co-ords: E387215.79 N400186.21            |
| Project No. : LD10385        | Drilling Equipment: Commachio GEO305<br>+Dando 2500 | Level : 76.92m AoD<br>Final Depth: 48.60m |

| Logged By<br>JP & MS                                                               |                                                                                    |               | Checked By<br>JC                                                                   |        |     |                                                                                     | Approved By<br>MP                                                                                                                                                                 |              |                                                                                     | Bit Type                                                                                                                                                                                                                                 |                     | Core Barrel |  |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|---------------|------------------------------------------------------------------------------------|--------|-----|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-------------|--|
| Install. /<br>Backfill                                                             | Water<br>Strikes                                                                   | Depth<br>(m)  | Type<br>/ FI                                                                       | Coring |     |                                                                                     | Diameter<br>Recovery<br>(SPH)                                                                                                                                                     | Depth<br>(m) | Level<br>(m)                                                                        | Legend                                                                                                                                                                                                                                   | Stratum Description | Scale       |  |
|                                                                                    |                                                                                    |               |                                                                                    | TCR    | SCR | RQD                                                                                 |                                                                                                                                                                                   |              |                                                                                     |                                                                                                                                                                                                                                          |                     |             |  |
|  |  | 10.00 - 11.50 |  | 85     | 63  | 109mm                                                                               | 10.00                                                                                                                                                                             | 66.92        |    | Stiff, brown to dark reddish brown, slightly gravelly, sandy CLAY. Gravel is angular to subrounded of fine to coarse mudstone and sandstone.<br>CGT                                                                                      | 10                  |             |  |
|                                                                                    |                                                                                    |               |                                                                                    |        |     |                                                                                     | 10.20                                                                                                                                                                             | 66.72        |                                                                                     |                                                                                                                                                                                                                                          |                     |             |  |
|                                                                                    |                                                                                    | 11.50 - 13.00 |                                                                                    | 90     | 83  | 109mm                                                                               | 11.40                                                                                                                                                                             | 65.52        |    | Firm, brown to dark brown, slightly gravelly, sandy CLAY with occasional coarse gravel sized inclusions of fine to medium sand. Gravel is angular to subrounded of fine to coarse mudstone.<br>CGT                                       | 11                  |             |  |
|                                                                                    |                                                                                    |               |                                                                                    |        |     |                                                                                     | 11.50                                                                                                                                                                             | 65.42        |                                                                                     |                                                                                                                                                                                                                                          |                     |             |  |
|                                                                                    |                                                                                    |               |                                                                                    |        |     |                                                                                     | 11.65                                                                                                                                                                             | 65.27        |                                                                                     |                                                                                                                                                                                                                                          |                     |             |  |
|                                                                                    |                                                                                    |               |                                                                                    |        |     |                                                                                     | 11.70                                                                                                                                                                             | 65.22        |                                                                                     |                                                                                                                                                                                                                                          |                     |             |  |
|                                                                                    |                                                                                    | 13.00 - 14.50 |                                                                                    | 66     | 50  | 109mm                                                                               | 12.60                                                                                                                                                                             | 64.32        |    | Soft to firm, brown to dark brown, slightly sandy, slightly gravelly CLAY. Gravel is angular to subrounded of fine to coarse mudstone and sandstone.<br>CGT                                                                              | 12                  |             |  |
|                                                                                    |                                                                                    |               |                                                                                    |        |     |                                                                                     | 13.00                                                                                                                                                                             | 63.92        |                                                                                     |                                                                                                                                                                                                                                          |                     |             |  |
|                                                                                    |                                                                                    |               |                                                                                    |        |     |                                                                                     | 13.50                                                                                                                                                                             | 63.42        |                                                                                     |                                                                                                                                                                                                                                          |                     |             |  |
|                                                                                    |                                                                                    |               |                                                                                    |        |     |                                                                                     | 14.50                                                                                                                                                                             | 62.42        |                                                                                     |                                                                                                                                                                                                                                          |                     |             |  |
|                                                                                    |                                                                                    | 14.50 - 16.00 |                                                                                    | 95     | 80  | 109mm                                                                               | 14.58                                                                                                                                                                             | 62.34        |    | Firm to stiff, brown to dark brown, mottled orange to reddish brown, slightly sandy, slightly gravelly CLAY. Gravel is angular to subrounded of fine to coarse mudstone and sandstone.<br>CGT                                            | 13                  |             |  |
|                                                                                    |                                                                                    |               |                                                                                    |        |     |                                                                                     | 14.70                                                                                                                                                                             | 62.22        |                                                                                     |                                                                                                                                                                                                                                          |                     |             |  |
|                                                                                    |                                                                                    |               |                                                                                    |        |     |                                                                                     | 16.00                                                                                                                                                                             | 60.92        |                                                                                     |                                                                                                                                                                                                                                          |                     |             |  |
|                                                                                    |                                                                                    | 16.00 - 17.50 |                                                                                    | 35     | 23  | 109mm                                                                               | 17.50                                                                                                                                                                             | 59.42        |  | Recovered core comprises soft to firm, brown to dark brown, mottled cream, reddish brown and orange, slightly sandy, slightly gravelly CLAY. Gravel is angular to subrounded of fine to coarse quartzite, sandstone and mudstone.<br>CGT | 14                  |             |  |
|                                                                                    |                                                                                    |               |                                                                                    |        |     |                                                                                     |                                                                                                                                                                                   |              |                                                                                     |                                                                                                                                                                                                                                          |                     |             |  |
|                                                                                    |                                                                                    | 17.50 - 19.00 |                                                                                    | 100    | 95  | 109mm                                                                               |                                                                                                                                                                                   |              |  | Firm to stiff, brown to dark brown, mottled greyish white, slightly sandy, slightly gravelly CLAY. Gravel is angular to subrounded of fine to coarse mudstone and sandstone.<br>CGT                                                      | 15                  |             |  |
|                                                                                    |                                                                                    |               |                                                                                    |        |     |                                                                                     |                                                                                                                                                                                   |              |                                                                                     |                                                                                                                                                                                                                                          |                     |             |  |
|                                                                                    |                                                                                    |               |                                                                                    |        |     |                                                                                     |                                                                                                                                                                                   |              |                                                                                     |                                                                                                                                                                                                                                          |                     |             |  |
|                                                                                    |                                                                                    |               |                                                                                    |        |     |                                                                                     |                                                                                                                                                                                   |              |                                                                                     |                                                                                                                                                                                                                                          |                     |             |  |
| 18.60m : Cobble of sandstone at 18.60m.                                            |                                                                                    |               |                                                                                    |        |     |  | Partial recovery. Core loss presumed due to softer and / or more granular materials. Driller notes dense CLAY.<br>CGT                                                             | 16           |                                                                                     |                                                                                                                                                                                                                                          |                     |             |  |
|                                                                                    |                                                                                    |               |                                                                                    |        |     |                                                                                     |                                                                                                                                                                                   |              |                                                                                     |                                                                                                                                                                                                                                          |                     |             |  |
|                                                                                    |                                                                                    |               |                                                                                    |        |     |                                                                                     |                                                                                                                                                                                   |              |                                                                                     |                                                                                                                                                                                                                                          |                     |             |  |
|                                                                                    |                                                                                    |               |                                                                                    |        |     |                                                                                     |                                                                                                                                                                                   |              |                                                                                     |                                                                                                                                                                                                                                          |                     |             |  |
| 18.60m : Cobble of sandstone at 18.60m.                                            |                                                                                    |               |                                                                                    |        |     |  | Soft, wet, brown to dark brown, slightly sandy, slightly gravelly CLAY. Gravel is angular to subrounded of fine to coarse mudstone and sandstone.<br>CGT                          | 17           |                                                                                     |                                                                                                                                                                                                                                          |                     |             |  |
|                                                                                    |                                                                                    |               |                                                                                    |        |     |                                                                                     |                                                                                                                                                                                   |              |                                                                                     |                                                                                                                                                                                                                                          |                     |             |  |
|                                                                                    |                                                                                    |               |                                                                                    |        |     |                                                                                     |                                                                                                                                                                                   |              |                                                                                     |                                                                                                                                                                                                                                          |                     |             |  |
|                                                                                    |                                                                                    |               |                                                                                    |        |     |                                                                                     |                                                                                                                                                                                   |              |                                                                                     |                                                                                                                                                                                                                                          |                     |             |  |
| 18.60m : Cobble of sandstone at 18.60m.                                            |                                                                                    |               |                                                                                    |        |     |  | Firm to stiff, brown, mottled orangish brown, slightly sandy, slightly gravelly CLAY. Gravel is angular to subrounded of fine to coarse mudstone, sandstone and quartzite.<br>CGT | 18           |                                                                                     |                                                                                                                                                                                                                                          |                     |             |  |
|                                                                                    |                                                                                    |               |                                                                                    |        |     |                                                                                     |                                                                                                                                                                                   |              |                                                                                     |                                                                                                                                                                                                                                          |                     |             |  |
|                                                                                    |                                                                                    |               |                                                                                    |        |     |                                                                                     |                                                                                                                                                                                   |              |                                                                                     |                                                                                                                                                                                                                                          |                     |             |  |
|                                                                                    |                                                                                    |               |                                                                                    |        |     |                                                                                     |                                                                                                                                                                                   |              |                                                                                     |                                                                                                                                                                                                                                          |                     |             |  |
| 18.60m : Cobble of sandstone at 18.60m.                                            |                                                                                    |               |                                                                                    |        |     |  | 18.60m : Cobble of sandstone at 18.60m.                                                                                                                                           | 19           |                                                                                     |                                                                                                                                                                                                                                          |                     |             |  |
|                                                                                    |                                                                                    |               |                                                                                    |        |     |                                                                                     |                                                                                                                                                                                   |              |                                                                                     |                                                                                                                                                                                                                                          |                     |             |  |
|                                                                                    |                                                                                    |               |                                                                                    |        |     |                                                                                     |                                                                                                                                                                                   |              |                                                                                     |                                                                                                                                                                                                                                          |                     |             |  |
|                                                                                    |                                                                                    |               |                                                                                    |        |     |                                                                                     |                                                                                                                                                                                   |              |                                                                                     |                                                                                                                                                                                                                                          |                     |             |  |

| Hole Diameter |          | Casing Diameter |          | Chiselling |      |          |      | Inclination and Orientation |      |             |             | Drilling Flush |      |      |        |         |         | Installation |        |           |          |
|---------------|----------|-----------------|----------|------------|------|----------|------|-----------------------------|------|-------------|-------------|----------------|------|------|--------|---------|---------|--------------|--------|-----------|----------|
| Base          | Diameter | Base            | Diameter | Top        | Base | Duration | Tool | Top                         | Base | Inclination | Orientation | Top            | Base | Type | Colour | Min (%) | Max (%) | Top          | Base   | Pipe Type | Diameter |
| 8.50m         | 200mm    | 8.50m           | 200mm    |            |      |          |      |                             |      |             |             |                |      |      |        |         |         | 0.00m        | 45.00m | PLAIN     |          |
| 48.60m        | 146mm    | 48.60m          | 146mm    |            |      |          |      |                             |      |             |             |                |      |      |        |         |         | 45.00m       | 48.00m | SLOTTED   |          |

**General Remarks**  
 Inspection pit hand dug to 1.20m bgl.  
 Coring using 146mm wireline system (Geobore S) using air / mist flush.  
 Approximate percentage by volume quantifiers as follows; rare (<5%), occasional (5-20%), frequent (20-40%) and abundant (>40%).  
 Target depth achieved and depth to bedrock proven.

Log printed on 13/09/2022 at 13:09

# Rotary Cored Borehole Log

BOREHOLE REFERENCE  
**RH206**  
Sheet 4 of 6

|                              |                                                     |                                           |
|------------------------------|-----------------------------------------------------|-------------------------------------------|
| Project Name: Ten Acres Lane | Client: NUVU Developments Ltd                       | Date: 14/03/2022 - 23/03/2022             |
| Location: Newton Heath       | Contractor: Geotron Ltd                             | Co-ords: E387215.79 N400186.21            |
| Project No. : LD10385        | Drilling Equipment: Commachio GEO305<br>+Dando 2500 | Level : 76.92m AoD<br>Final Depth: 48.60m |

|                      |                  |                   |          |             |
|----------------------|------------------|-------------------|----------|-------------|
| Logged By<br>JP & MS | Checked By<br>JC | Approved By<br>MP | Bit Type | Core Barrel |
|----------------------|------------------|-------------------|----------|-------------|

| Instal. / Backfill | Water Strikes | Depth (m)     | Type / FI | Coring |     |     | Diameter Recovery (SPT) | Depth (m)               | Level (m)               | Legend | Stratum Description                                                                                                                                                                                                                                                                                                                                                                                      | Scale |
|--------------------|---------------|---------------|-----------|--------|-----|-----|-------------------------|-------------------------|-------------------------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|                    |               |               |           | TCR    | SCR | RQD |                         |                         |                         |        |                                                                                                                                                                                                                                                                                                                                                                                                          |       |
|                    |               | 19.00 - 20.50 |           | 100    | 95  |     | 109mm                   |                         |                         |        | Firm to stiff, brown, mottled cream and grey, slightly sandy, slightly gravelly CLAY. Gravel is angular to subrounded of medium to coarse mudstone, sandstone and quartzite. CGT                                                                                                                                                                                                                         | 20    |
|                    |               | 20.50 - 22.00 |           | 100    | 100 |     | 109mm                   | 20.70<br>21.25<br>21.35 | 56.22<br>55.67<br>55.57 |        | Stiff, brown to reddish brown, mottled red to orange, slightly gravelly, sandy CLAY. Gravel is angular to subrounded of fine to coarse mudstone and sandstone. CGT<br><br>Reddish brown, medium to coarse SAND. GGT<br>Stiff, brown to reddish brown, mottled red to orange, slightly gravelly, sandy CLAY. Gravel is angular to subrounded of fine to coarse mudstone and sandstone. CGT                | 21    |
|                    |               | 22.00 - 23.50 |           | 80     | 66  |     | 109mm                   |                         |                         |        | Stiff, brown to reddish brown, slightly sandy, slightly gravelly CLAY. Gravel is angular to subrounded of fine to coarse mudstone and sandstone. CGT                                                                                                                                                                                                                                                     | 22    |
|                    |               | 23.50 - 25.00 |           | 98     | 98  |     | 109mm                   | 23.50<br>24.50<br>24.55 | 53.42<br>52.42<br>52.37 |        | Firm to stiff, brown to dark brown, slightly sandy, slightly gravelly CLAY. Gravel is angular to subangular of fine to coarse mudstone, sandstone and quartzite. CGT<br><br>Zone of core loss. Core loss presumed due to granular materials. Reddish brown SAND noted on outer edge of core liner. GGT                                                                                                   | 24    |
|                    |               | 25.00 - 26.50 |           | 100    | 66  |     | 109mm                   | 25.00                   | 51.92                   |        | Firm to stiff, brown to dark brown, slightly sandy, slightly gravelly CLAY. Gravel is angular to subangular of fine to coarse mudstone, sandstone and quartzite. CGT<br><br>Firm to stiff, brown to dark brown, slightly sandy, slightly gravelly CLAY with rare cobbles of mudstone. Gravel is angular to subangular of fine to coarse mudstone. CGT                                                    | 25    |
|                    |               | 26.50 - 28.00 |           | 98     | 80  |     | 109mm                   | 26.70<br>26.90          | 50.22<br>50.02          |        | Soft to firm, brown to dark brown, mottled orangish brown, slightly gravelly, sandy CLAY. Gravel is angular to subangular of fine to coarse mudstone. CGT<br><br>Firm to stiff, brown to dark brown, slightly sandy, slightly gravelly CLAY with rare cobbles of mudstone. Gravel is angular to subangular of fine to coarse mudstone. CGT                                                               | 26    |
|                    |               | 28.00 - 29.50 |           | 83     | 66  |     | 109mm                   | 28.00<br>28.25<br>28.30 | 48.92<br>48.67<br>48.62 |        | Firm to stiff, brown, slightly sandy, slightly gravelly CLAY. Gravel is angular to subangular of fine to coarse mudstone and sandstone. CGT<br>Soft to firm, brown, slightly gravelly, sandy CLAY. Gravel is angular to subangular of fine sandstone. CGT<br>Firm to stiff, brown, slightly sandy, slightly gravelly CLAY. Gravel is angular to subangular of fine to coarse mudstone and sandstone. CGT | 27    |
|                    |               |               |           |        |     |     |                         | 28.00<br>28.25<br>28.30 | 48.92<br>48.67<br>48.62 |        | Firm to stiff, laminated, brown, slightly sandy, slightly gravelly CLAY with horizontal fractures infilled with sand. Gravel is angular to subangular of fine to coarse mudstone and sandstone. CGT                                                                                                                                                                                                      | 28    |
|                    |               |               |           |        |     |     |                         | 29.10<br>29.25          | 47.82<br>47.67          |        | Zone of core loss. Core loss presumed due to granular materials. Possibly SAND. GGT                                                                                                                                                                                                                                                                                                                      | 29    |

| Hole Diameter |          | Casing Diameter |          | Chiselling |      |          |      | Inclination and Orientation |      |             |             | Drilling Flush |      |      |        |         |         | Installation |        |           |          |
|---------------|----------|-----------------|----------|------------|------|----------|------|-----------------------------|------|-------------|-------------|----------------|------|------|--------|---------|---------|--------------|--------|-----------|----------|
| Base          | Diameter | Base            | Diameter | Top        | Base | Duration | Tool | Top                         | Base | Inclination | Orientation | Top            | Base | Type | Colour | Min (%) | Max (%) | Top          | Base   | Pipe Type | Diameter |
| 8.50m         | 200mm    | 8.50m           | 200mm    |            |      |          |      |                             |      |             |             |                |      |      |        |         |         | 0.00m        | 45.00m | PLAIN     |          |
| 48.60m        | 146mm    | 48.60m          | 146mm    |            |      |          |      |                             |      |             |             |                |      |      |        |         |         | 45.00m       | 48.00m | SLOTTED   |          |

**General Remarks**  
Inspection pit hand dug to 1.20m bgl.  
Coring using 146mm wireline system (Geobore S) using air / mist flush.  
Approximate percentage by volume quantifiers as follows; rare (<5%), occasional (5-20%), frequent (20-40%) and abundant (>40%).  
Target depth achieved and depth to bedrock proven.

Log printed on 13/09/2022 at 13:09

# Rotary Cored Borehole Log

BOREHOLE REFERENCE  
**RH206**  
Sheet 5 of 6

|                              |                                                  |                                           |
|------------------------------|--------------------------------------------------|-------------------------------------------|
| Project Name: Ten Acres Lane | Client: NUVU Developments Ltd                    | Date: 14/03/2022 - 23/03/2022             |
| Location: Newton Heath       | Contractor: Geotron Ltd                          | Co-ords: E387215.79 N400186.21            |
| Project No. : LD10385        | Drilling Equipment: Commachio GEO305 +Dando 2500 | Level : 76.92m AoD<br>Final Depth: 48.60m |

|                      |                  |                   |          |             |
|----------------------|------------------|-------------------|----------|-------------|
| Logged By<br>JP & MS | Checked By<br>JC | Approved By<br>MP | Bit Type | Core Barrel |
|----------------------|------------------|-------------------|----------|-------------|

| Install. / Backfill | Water Strikes | Depth (m)     | Type / FI | Coring |     |     | Diameter Recovery (SPT) | Depth (m)               | Level (m)               | Legend | Stratum Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Scale |
|---------------------|---------------|---------------|-----------|--------|-----|-----|-------------------------|-------------------------|-------------------------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|                     |               |               |           | TCR    | SCR | RQD |                         |                         |                         |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |
|                     |               | 29.50 - 31.00 |           | 53     | 43  |     | 109mm                   | 29.95<br>30.35<br>30.55 | 46.97<br>46.57<br>46.37 |        | Zone of core loss. Core loss presumed due to granular materials. Possibly SAND.<br>GGT<br><br>Recovered core comprises firm to stiff, laminated, brown, slightly sandy CLAY with frequent thin laminations of brown fine to medium sand.<br>CGT<br><br>Recovered core comprises soft to firm, wet, brown, slightly sandy, slightly gravelly CLAY with occasional cobble sized pockets of brown, fine to medium sand. Gravel is angular to subrounded of fine to medium mixed natural lithologies.<br>CGT                                             | 30    |
|                     |               | 31.00 - 32.50 |           | 40     | 0   |     | 109mm                   | 31.00                   | 45.92                   |        | Zone of no recovery. Core loss due to casing being pushed down to combat sub-artesian conditions.<br>Recovered material from flush returns comprises reddish brown, slightly gravelly SAND. Gravel is subangular to subrounded of fine to coarse mixed lithologies.<br>GGT<br><br>Partial recovery. Core loss due to casing being pushed down to combat sub-artesian conditions. Recovered material from flush returns comprises light brown, slightly gravelly SAND. Gravel is subangular to subrounded of fine to coarse mixed lithologies.<br>GGT | 31    |
|                     |               | 32.50 - 34.00 |           | 0      |     |     | 109mm                   | 32.50                   | 44.42                   |        | No recovery. Core loss due to casing being pushed down to combat sub-artesian conditions. Recovered material from flush returns comprises reddish brown, slightly gravelly SAND. Gravel is subrounded to rounded of fine to coarse mixed lithologies.<br>GGT                                                                                                                                                                                                                                                                                         | 32    |
|                     |               | 34.00 - 35.50 |           | 0      |     |     | 109mm                   | 34.00                   | 42.92                   |        | No recovery. Core loss due to casing being pushed down to combat sub-artesian conditions. Drillers note SAND to soft clay.<br>GGT                                                                                                                                                                                                                                                                                                                                                                                                                    | 33    |
|                     |               | 35.50 - 37.00 |           | 0      |     |     | 109mm                   | 35.50                   | 41.42                   |        | No recovery. Core loss due to casing being pushed down to combat sub-artesian conditions. Recovered material from flush returns comprises reddish brown, slightly gravelly SAND with occasional cobble sized inclusions of soft to firm, laminated, sandy clay. Gravel is subrounded to rounded of fine to coarse mixed lithologies.<br>GGT                                                                                                                                                                                                          | 34    |
|                     |               | 37.00 - 38.50 |           | 66     | 43  |     | 109mm                   | 37.00<br>37.50<br>37.80 | 39.92<br>39.42<br>39.12 |        | Recovered as soft to firm, brown, slightly sandy CLAY. Sand is fine to medium.<br>CGT<br><br>Recovered as firm to stiff, interlaminated, brown CLAY and brown, fine to medium SAND.<br>CGT<br><br>Zone of core loss. Core loss due to casing being pushed down to combat sub-artesian conditions. Drillers note SAND to soft clay.<br>GGT                                                                                                                                                                                                            | 35    |
|                     |               |               |           |        |     |     |                         | 38.50                   | 38.42                   |        | No recovery. Core loss due to casing being pushed down to combat sub-artesian conditions. Drillers note light brown SAND.<br>GGT                                                                                                                                                                                                                                                                                                                                                                                                                     | 36    |
|                     |               |               |           |        |     |     |                         |                         |                         |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 37    |
|                     |               |               |           |        |     |     |                         |                         |                         |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 38    |
|                     |               |               |           |        |     |     |                         |                         |                         |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 39    |

| Hole Diameter |          | Casing Diameter |          | Chiselling |      |          |      | Inclination and Orientation |      |             | Drilling Flush |     |      |      |        |         | Installation |        |        |           |          |
|---------------|----------|-----------------|----------|------------|------|----------|------|-----------------------------|------|-------------|----------------|-----|------|------|--------|---------|--------------|--------|--------|-----------|----------|
| Base          | Diameter | Base            | Diameter | Top        | Base | Duration | Tool | Top                         | Base | Inclination | Orientation    | Top | Base | Type | Colour | Min (%) | Max (%)      | Top    | Base   | Pipe Type | Diameter |
| 8.50m         | 200mm    | 8.50m           | 200mm    |            |      |          |      |                             |      |             |                |     |      |      |        |         |              | 0.00m  | 45.00m | PLAIN     |          |
| 48.60m        | 146mm    | 48.60m          | 146mm    |            |      |          |      |                             |      |             |                |     |      |      |        |         |              | 45.00m | 48.00m | SLOTTED   |          |

**General Remarks**  
 Inspection pit hand dug to 1.20m bgl.  
 Coring using 146mm wireline system (Geobore S) using air / mist flush.  
 Approximate percentage by volume quantifiers as follows; rare (<5%), occasional (5-20%), frequent (20-40%) and abundant (>40%).  
 Target depth achieved and depth to bedrock proven.

Log printed on 13/09/2022 at 13:09

# Rotary Cored Borehole Log

BOREHOLE REFERENCE  
**RH206**  
Sheet 6 of 6

|                              |                  |                                                  |          |                                |                     |
|------------------------------|------------------|--------------------------------------------------|----------|--------------------------------|---------------------|
| Project Name: Ten Acres Lane |                  | Client: NUVU Developments Ltd                    |          | Date: 14/03/2022 - 23/03/2022  |                     |
| Location: Newton Heath       |                  | Contractor: Geotron Ltd                          |          | Co-ords: E387215.79 N400186.21 |                     |
| Project No. : LD10385        |                  | Drilling Equipment: Commachio GEO305 +Dando 2500 |          | Level : 76.92m AoD             | Final Depth: 48.60m |
| Logged By<br>JP & MS         | Checked By<br>JC | Approved By<br>MP                                | Bit Type |                                | Core Barrel         |

| Instal. / Backfill                                                                 | Water Strikes | Depth (m)     | Type / FI | Coring |     |     | Diameter Recovery (SPT) | Depth (m) | Level (m) | Legend | Stratum Description                                                                                                                                                                                                                                                                                                                                                                                     | Scale |
|------------------------------------------------------------------------------------|---------------|---------------|-----------|--------|-----|-----|-------------------------|-----------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|                                                                                    |               |               |           | TCR    | SCR | RQD |                         |           |           |        |                                                                                                                                                                                                                                                                                                                                                                                                         |       |
|  |               | 38.50 - 40.00 |           | 0      |     |     | 109mm                   |           |           |        | No recovery. Core loss due to casing being pushed down to combat sub-artesian conditions. Drillers note light brown SAND. GGT                                                                                                                                                                                                                                                                           | 40    |
|                                                                                    |               | 40.00 - 41.50 |           | 0      |     |     | 109mm                   |           |           |        |                                                                                                                                                                                                                                                                                                                                                                                                         | 41    |
|                                                                                    |               | 41.50 - 43.00 |           | 0      |     |     | 109mm                   | 42.00     | 34.92     |        | No recovery. Core loss due to casing being pushed down to combat sub-artesian conditions. Drillers note dark brown SAND. GGT                                                                                                                                                                                                                                                                            | 42    |
|                                                                                    |               | 43.00 - 44.50 |           | 0      |     |     | 109mm                   |           |           |        |                                                                                                                                                                                                                                                                                                                                                                                                         | 43    |
|                                                                                    |               | 44.50 - 46.00 |           | 0      |     |     | 109mm                   | 45.00     | 31.92     |        | No recovery. Core loss presumed due to weaker and / more weathered materials. Recovered material from flush comprises reddish brown, fine to medium SAND with black, red, white and green grains and rare angular, fine, black gravel. Drillers note significant increase in resistance during drilling. Possibly extremely weak, poorly cemented, reddish brown, fine to medium grained sandstone. CSF | 45    |
|                                                                                    |               | 46.00 - 47.00 |           | 0      |     |     | 109mm                   |           |           |        |                                                                                                                                                                                                                                                                                                                                                                                                         | 46    |
|                                                                                    |               | 47.00 - 48.00 |           | 0      |     |     | 109mm                   |           |           |        |                                                                                                                                                                                                                                                                                                                                                                                                         | 47    |
|                                                                                    |               | 48.00 - 48.60 |           | 0      |     |     | 109mm                   | 48.60     | 28.32     |        |                                                                                                                                                                                                                                                                                                                                                                                                         | 48    |
|                                                                                    |               |               |           |        |     |     |                         |           |           |        | End of Borehole at 48.60m                                                                                                                                                                                                                                                                                                                                                                               |       |

| Hole Diameter |          | Casing Diameter |          | Chiselling |      |          |      | Inclination and Orientation |      |             |             | Drilling Flush |      |      |        |         |         | Installation |        |           |          |
|---------------|----------|-----------------|----------|------------|------|----------|------|-----------------------------|------|-------------|-------------|----------------|------|------|--------|---------|---------|--------------|--------|-----------|----------|
| Base          | Diameter | Base            | Diameter | Top        | Base | Duration | Tool | Top                         | Base | Inclination | Orientation | Top            | Base | Type | Colour | Min (%) | Max (%) | Top          | Base   | Pipe Type | Diameter |
| 8.50m         | 200mm    | 8.50m           | 200mm    |            |      |          |      |                             |      |             |             |                |      |      |        |         |         | 0.00m        | 45.00m | PLAIN     |          |
| 48.60m        | 146mm    | 48.60m          | 146mm    |            |      |          |      |                             |      |             |             |                |      |      |        |         |         | 45.00m       | 48.00m | SLOTTED   |          |

**General Remarks**  
 Inspection pit hand dug to 1.20m bgl.  
 Coring using 146mm wireline system (Geobore S) using air / mist flush.  
 Approximate percentage by volume quantifiers as follows; rare (<5%), occasional (5-20%), frequent (20-40%) and abundant (>40%).  
 Target depth achieved and depth to bedrock proven.  
**Log printed on 13/09/2022 at 13:09**

# Cable Percussive Borehole Log

BOREHOLE REFERENCE  
**CP101/RH109**  
Sheet 1 of 5

|                              |                  |                                                |                         |                                |                       |
|------------------------------|------------------|------------------------------------------------|-------------------------|--------------------------------|-----------------------|
| Project Name: Ten Acres Lane |                  | Client: NUVU Developments Ltd                  |                         | Date: 27/10/2020 - 29/10/2020  |                       |
| Location: Newton Heath       |                  | Contractor: Geotron                            |                         | Co-ords: E387806.00 N400346.00 |                       |
| Project No. : LD10385        |                  | Drilling Equipment: Dando 2500 & Comacchio 205 |                         | Level : 85.78m AoD             |                       |
| Logged By<br>ZH              | Checked By<br>JC | Approved By<br>MP                              | SPT Energy Ratio<br>67% |                                | Final Depth<br>43.00m |

| Install. / Backfill | Sample and In Situ Testing |        |                    | Depth (m) | Level (m) | Legend | Stratum Description                                                                                                                                                                                                                                                                                                                                                                                                 | Scale |
|---------------------|----------------------------|--------|--------------------|-----------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|                     | Depth (m)                  | Type   | Results            |           |           |        |                                                                                                                                                                                                                                                                                                                                                                                                                     |       |
|                     | 0.00 – 1.00                | B      |                    | 0.40      | 85.38     |        | Recovered as very loose, dark grey, slightly clayey to clayey GRAVEL with occasional roots and rootlets. Gravel is subangular to subrounded of fine to coarse mudstone (40%), siltstone (30%), red brick (15%), slate (10%) and mixed lithologies (5%).<br>TF                                                                                                                                                       |       |
|                     | 1.00 – 2.00                | B      |                    |           |           |        | Recovered as 70% loose, dark grey, slightly clayey to clayey GRAVEL; 15% cobble sized fragments of mudstone and siltstone; 10% cobble sized red brick fragments; and 5% cobble sized coal fragments. Gravel is subangular to subrounded of fine to coarse mudstone (40%), siltstone (30%), red brick (15%), slate (10%) and mixed lithologies (5%).<br>CS                                                           | 1     |
|                     | 1.00                       | SPT(S) | N=3 (1,1/0,1,1,1)  | 1.40      | 84.38     |        |                                                                                                                                                                                                                                                                                                                                                                                                                     |       |
|                     | 1.50                       |        | 0.30ppmv           |           |           |        |                                                                                                                                                                                                                                                                                                                                                                                                                     |       |
|                     | 2.20                       | SPT(S) | N=8 (1,2/3,2,1,2)  | 2.45      | 83.33     |        | Recovered as stiff, friable, dark grey and black in places, very gravelly CLAY. Gravel is subangular to subrounded of fine to coarse mudstone, siltstone, red brick, and coal.<br>CS                                                                                                                                                                                                                                | 2     |
|                     | 3.00                       | SPT(S) | N=20 (2,8/4,5,5,6) |           |           |        | Recovered as 90% cobble sized inclusions of very soft to stiff, light grey, gravelly CLAY; and 10% boulder sized concrete fragments. Gravel is angular to subangular of fine to coarse mudstone, siltstone, sandstone, and coal.<br>CS                                                                                                                                                                              | 3     |
|                     | 4.00 – 5.00                | ES     |                    |           |           |        |                                                                                                                                                                                                                                                                                                                                                                                                                     | 4     |
|                     | 4.00                       | SPT(S) | N=12 (3,3/4,3,2,3) | 4.45      | 81.33     |        |                                                                                                                                                                                                                                                                                                                                                                                                                     |       |
|                     | 4.50                       |        | 0.70ppmv           |           |           |        | Recovered as 60% cobble to boulder size inclusions of very stiff, greyish brown to black, slightly gravelly CLAY; 25% cobble sized mudstone and siltstone fragments; and 15% cobble to boulder sized pockets of weathered reddish brown, subangular to subrounded fine to coarse GRAVEL of mudstone, siltstone and occasional coal. Gravel within clay is subangular to subrounded of fine mixed lithologies.<br>CS | 5     |
|                     | 5.00 – 6.00                | B      |                    | 5.20      | 80.58     |        |                                                                                                                                                                                                                                                                                                                                                                                                                     |       |
|                     | 5.00 – 6.00                | ES     |                    |           |           |        |                                                                                                                                                                                                                                                                                                                                                                                                                     |       |
|                     | 5.20                       | SPT(S) | N=14 (1,2/3,3,3,5) |           |           |        | Stiff to very stiff, brown, slightly gravelly CLAY. Gravel is subangular to rounded of fine to coarse gritstone, sandstone, mudstone, crystalline rocks, pebbles, slate, marl, shale, coal and mixed natural lithologies.<br>CGT                                                                                                                                                                                    | 6     |
|                     | 6.50                       | SPT(S) | N=13 (0,2/2,2,4,5) |           |           |        |                                                                                                                                                                                                                                                                                                                                                                                                                     | 7     |
|                     | 6.50                       |        | 0.20ppmv           |           |           |        |                                                                                                                                                                                                                                                                                                                                                                                                                     |       |
|                     | 8.00 – 8.45                | UT     |                    | 8.00      | 77.78     |        | Firm to stiff, wet, brown, slightly gravelly, clayey SAND. Gravel is subangular to rounded of fine to coarse quartz, shale, mudstone, rounded pebbles and mixed natural lithologies. Sand is fine to medium.<br>GGT                                                                                                                                                                                                 | 8     |
|                     | 9.50                       | SPT(S) | N=8 (1,1/1,2,2,3)  |           |           |        |                                                                                                                                                                                                                                                                                                                                                                                                                     | 9     |

| Hole Diameter |          | Casing Diameter |          | Chiselling |            |          |      | Inclination and Orientation |      |             |             | Installation |        |           |          |
|---------------|----------|-----------------|----------|------------|------------|----------|------|-----------------------------|------|-------------|-------------|--------------|--------|-----------|----------|
| Depth Base    | Diameter | Depth Base      | Diameter | Depth Top  | Depth Base | Duration | Tool | Top                         | Base | Inclination | Orientation | Top          | Base   | Pipe Type | Diameter |
| 7.00m         | 200mm    | 7.00m           | 200mm    |            |            |          |      |                             |      |             |             | 0.00m        | 18.00m | PLAIN     |          |
| 14.45m        | 150mm    | 12.00m          | 150mm    |            |            |          |      |                             |      |             |             | 18.00m       | 22.00m | SLOTTED   |          |
|               |          |                 |          |            |            |          |      |                             |      |             |             | 0.00m        | 40.00m | PLAIN     |          |
|               |          |                 |          |            |            |          |      |                             |      |             |             | 40.00m       | 42.50m | SLOTTED   |          |

**Remarks**  
Dimensions given in length x width x depth. Logging has been undertaken to provide an approximate volumetric percentage of the various constituents present. Cable percussion method utilised until 14.45m and then rotary open hole follow on through a bentonite seal from 14.45m to 43m.

# Cable Percussive Borehole Log

BOREHOLE REFERENCE  
**CP101/RH109**  
Sheet 2 of 5

|                              |                  |                                                |                         |                                |  |
|------------------------------|------------------|------------------------------------------------|-------------------------|--------------------------------|--|
| Project Name: Ten Acres Lane |                  | Client: NUVU Developments Ltd                  |                         | Date: 27/10/2020 - 29/10/2020  |  |
| Location: Newton Heath       |                  | Contractor: Geotron                            |                         | Co-ords: E387806.00 N400346.00 |  |
| Project No. : LD10385        |                  | Drilling Equipment: Dando 2500 & Comacchio 205 |                         | Level : 85.78m AoD             |  |
| Logged By<br>ZH              | Checked By<br>JC | Approved By<br>MP                              | SPT Energy Ratio<br>67% | Final Depth<br>43.00m          |  |

| Install. / Backfill | Sample and In Situ Testing |        |                     | Depth (m) | Level (m) | Legend | Stratum Description                                                                                                                                                                                                 | Scale |
|---------------------|----------------------------|--------|---------------------|-----------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|                     | Depth (m)                  | Type   | Results             |           |           |        |                                                                                                                                                                                                                     |       |
|                     | 10.00 – 11.00              | ES     |                     |           |           |        | Firm to stiff, wet, brown, slightly gravelly, clayey SAND. Gravel is subangular to rounded of fine to coarse quartz, shale, mudstone, rounded pebbles and mixed natural lithologies. Sand is fine to medium.<br>GGT | 10    |
|                     | 10.50                      |        | 0.00ppmv            |           |           |        |                                                                                                                                                                                                                     |       |
|                     | 11.00 – 12.00              | B      |                     |           |           |        |                                                                                                                                                                                                                     | 11    |
|                     | 11.00                      | SPT(S) | N=15 (1,2/3,3,4,5)  |           |           |        |                                                                                                                                                                                                                     |       |
|                     | 12.50                      | SPT(S) | N=29 (4,2/3,7,9,10) |           |           |        |                                                                                                                                                                                                                     | 12    |
|                     | 14.00                      | SPT(S) | N=37 (4,4/8,8,9,12) |           |           |        |                                                                                                                                                                                                                     | 13    |
|                     |                            |        |                     | 14.45     | 71.33     |        |                                                                                                                                                                                                                     | 14    |
|                     |                            |        |                     |           |           |        | Driller notes SAND.<br>GGT                                                                                                                                                                                          | 15    |
|                     |                            |        |                     |           |           |        |                                                                                                                                                                                                                     | 16    |
|                     |                            |        |                     |           |           |        |                                                                                                                                                                                                                     | 17    |
|                     |                            |        |                     |           |           |        |                                                                                                                                                                                                                     | 18    |
|                     |                            |        |                     |           |           |        |                                                                                                                                                                                                                     | 19    |

| Hole Diameter   |                | Casing Diameter |                | Chiselling |            |          |      | Inclination and Orientation |      |             |             | Installation                       |                                      |                                      |          |
|-----------------|----------------|-----------------|----------------|------------|------------|----------|------|-----------------------------|------|-------------|-------------|------------------------------------|--------------------------------------|--------------------------------------|----------|
| Depth Base      | Diameter       | Depth Base      | Diameter       | Depth Top  | Depth Base | Duration | Tool | Top                         | Base | Inclination | Orientation | Top                                | Base                                 | Pipe Type                            | Diameter |
| 7.00m<br>14.45m | 200mm<br>150mm | 7.00m<br>12.00m | 200mm<br>150mm |            |            |          |      |                             |      |             |             | 0.00m<br>18.00m<br>0.00m<br>40.00m | 18.00m<br>22.00m<br>40.00m<br>42.50m | PLAIN<br>SLOTTED<br>PLAIN<br>SLOTTED |          |

**Remarks**  
Dimensions given in length x width x depth. Logging has been undertaken to provide an approximate volumetric percentage of the various constituents present. Cable percussion method utilised until 14.45m and then rotary open hole follow on through a bentonite seal from 14.45m to 43m.

# Cable Percussive Borehole Log

BOREHOLE REFERENCE  
**CP101/RH109**  
Sheet 3 of 5

|                              |                  |                                                |                         |                                |  |
|------------------------------|------------------|------------------------------------------------|-------------------------|--------------------------------|--|
| Project Name: Ten Acres Lane |                  | Client: NUVU Developments Ltd                  |                         | Date: 27/10/2020 - 29/10/2020  |  |
| Location: Newton Heath       |                  | Contractor: Geotron                            |                         | Co-ords: E387806.00 N400346.00 |  |
| Project No. : LD10385        |                  | Drilling Equipment: Dando 2500 & Comacchio 205 |                         | Level : 85.78m AoD             |  |
| Logged By<br>ZH              | Checked By<br>JC | Approved By<br>MP                              | SPT Energy Ratio<br>67% | Final Depth<br>43.00m          |  |

| Instal. / Backfill | Sample and In Situ Testing |      |         | Depth (m) | Level (m) | Legend | Stratum Description                | Scale |
|--------------------|----------------------------|------|---------|-----------|-----------|--------|------------------------------------|-------|
|                    | Depth (m)                  | Type | Results |           |           |        |                                    |       |
|                    |                            |      |         | 20.00     | 65.78     |        | Driller notes SAND.<br>GGT         | 20    |
|                    |                            |      |         |           |           |        | Driller notes CLAY.<br>CGT         | 21    |
|                    |                            |      |         |           |           |        |                                    | 22    |
|                    |                            |      |         |           |           |        |                                    | 23    |
|                    |                            |      |         | 24.00     | 61.78     |        | Driller notes boulder CLAY.<br>CGT | 24    |
|                    |                            |      |         |           |           |        |                                    | 25    |
|                    |                            |      |         |           |           |        |                                    | 26    |
|                    |                            |      |         |           |           |        |                                    | 27    |
|                    |                            |      |         |           |           |        |                                    | 28    |
|                    |                            |      |         |           |           |        |                                    | 29    |

| Hole Diameter   |                | Casing Diameter |                | Chiselling |            |          |      | Inclination and Orientation |      |             |             | Installation                       |                                      |                                      |          |
|-----------------|----------------|-----------------|----------------|------------|------------|----------|------|-----------------------------|------|-------------|-------------|------------------------------------|--------------------------------------|--------------------------------------|----------|
| Depth Base      | Diameter       | Depth Base      | Diameter       | Depth Top  | Depth Base | Duration | Tool | Top                         | Base | Inclination | Orientation | Top                                | Base                                 | Pipe Type                            | Diameter |
| 7.00m<br>14.45m | 200mm<br>150mm | 7.00m<br>12.00m | 200mm<br>150mm |            |            |          |      |                             |      |             |             | 0.00m<br>18.00m<br>0.00m<br>40.00m | 18.00m<br>22.00m<br>40.00m<br>42.50m | PLAIN<br>SLOTTED<br>PLAIN<br>SLOTTED |          |

**Remarks**  
Dimensions given in length x width x depth. Logging has been undertaken to provide an approximate volumetric percentage of the various constituents present. Cable percussion method utilised until 14.45m and then rotary open hole follow on through a bentonite seal from 14.45m to 43m.

# Cable Percussive Borehole Log

BOREHOLE REFERENCE  
**CP101/RH109**  
Sheet 4 of 5

|                              |                  |                                                |                         |                                |  |
|------------------------------|------------------|------------------------------------------------|-------------------------|--------------------------------|--|
| Project Name: Ten Acres Lane |                  | Client: NUVU Developments Ltd                  |                         | Date: 27/10/2020 - 29/10/2020  |  |
| Location: Newton Heath       |                  | Contractor: Geotron                            |                         | Co-ords: E387806.00 N400346.00 |  |
| Project No. : LD10385        |                  | Drilling Equipment: Dando 2500 & Comacchio 205 |                         | Level : 85.78m AoD             |  |
| Logged By<br>ZH              | Checked By<br>JC | Approved By<br>MP                              | SPT Energy Ratio<br>67% | Final Depth<br>43.00m          |  |

| Instal. / Backfill | Sample and In Situ Testing |      |         | Depth (m) | Level (m) | Legend | Stratum Description                | Scale |
|--------------------|----------------------------|------|---------|-----------|-----------|--------|------------------------------------|-------|
|                    | Depth (m)                  | Type | Results |           |           |        |                                    |       |
|                    |                            |      |         | 30.00     | 55.78     |        | Driller notes boulder CLAY.<br>CGT | 30    |
|                    |                            |      |         |           |           |        | Driller notes soft CLAY.<br>CGT    | 31    |
|                    |                            |      |         |           |           |        |                                    | 32    |
|                    |                            |      |         |           |           |        |                                    | 33    |
|                    |                            |      |         |           |           |        |                                    | 34    |
|                    |                            |      |         |           |           |        |                                    | 35    |
|                    |                            |      |         |           |           |        |                                    | 36    |
|                    |                            |      |         |           |           |        |                                    | 37    |
|                    |                            |      |         | 38.00     | 47.78     |        | Driller notes boulder CLAY.<br>CGT | 38    |
|                    |                            |      |         |           |           |        |                                    | 39    |

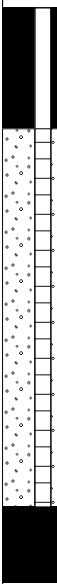
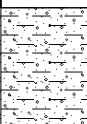
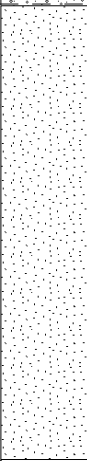
| Hole Diameter   |                | Casing Diameter |                | Chiselling |            |          |      | Inclination and Orientation |      |             |             | Installation              |                                      |                                      |          |
|-----------------|----------------|-----------------|----------------|------------|------------|----------|------|-----------------------------|------|-------------|-------------|---------------------------|--------------------------------------|--------------------------------------|----------|
| Depth Base      | Diameter       | Depth Base      | Diameter       | Depth Top  | Depth Base | Duration | Tool | Top                         | Base | Inclination | Orientation | Top                       | Base                                 | Pipe Type                            | Diameter |
| 7.00m<br>14.45m | 200mm<br>150mm | 7.00m<br>12.00m | 200mm<br>150mm |            |            |          |      |                             |      |             |             | 0.00m<br>18.00m<br>40.00m | 18.00m<br>22.00m<br>40.00m<br>42.50m | PLAIN<br>SLOTTED<br>PLAIN<br>SLOTTED |          |

**Remarks**  
Dimensions given in length x width x depth. Logging has been undertaken to provide an approximate volumetric percentage of the various constituents present. Cable percussion method utilised until 14.45m and then rotary open hole follow on through a bentonite seal from 14.45m to 43m.

# Cable Percussive Borehole Log

BOREHOLE REFERENCE  
**CP101/RH109**  
Sheet 5 of 5

|                              |                  |                                                |                         |                                |  |
|------------------------------|------------------|------------------------------------------------|-------------------------|--------------------------------|--|
| Project Name: Ten Acres Lane |                  | Client: NUVU Developments Ltd                  |                         | Date: 27/10/2020 - 29/10/2020  |  |
| Location: Newton Heath       |                  | Contractor: Geotron                            |                         | Co-ords: E387806.00 N400346.00 |  |
| Project No. : LD10385        |                  | Drilling Equipment: Dando 2500 & Comacchio 205 |                         | Level : 85.78m AoD             |  |
| Logged By<br>ZH              | Checked By<br>JC | Approved By<br>MP                              | SPT Energy Ratio<br>67% | Final Depth<br>43.00m          |  |

| Install. / Backfill                                                               | Sample and In Situ Testing |      |         | Depth (m) | Level (m) | Legend                                                                            | Stratum Description                | Scale |
|-----------------------------------------------------------------------------------|----------------------------|------|---------|-----------|-----------|-----------------------------------------------------------------------------------|------------------------------------|-------|
|                                                                                   | Depth (m)                  | Type | Results |           |           |                                                                                   |                                    |       |
|  |                            |      |         | 40.00     | 45.78     |  | Driller notes boulder CLAY.<br>CGT | 40    |
|                                                                                   |                            |      |         |           |           |  | Driller notes SAND.<br>CSF         | 41    |
|                                                                                   |                            |      |         | 43.00     | 42.78     |                                                                                   | End of Borehole at 43.00m          | 43    |
|                                                                                   |                            |      |         |           |           |                                                                                   |                                    | 44    |
|                                                                                   |                            |      |         |           |           |                                                                                   |                                    | 45    |
|                                                                                   |                            |      |         |           |           |                                                                                   |                                    | 46    |
|                                                                                   |                            |      |         |           |           |                                                                                   |                                    | 47    |
|                                                                                   |                            |      |         |           |           |                                                                                   |                                    | 48    |

| Hole Diameter   |                | Casing Diameter |                | Chiselling |            |          |      | Inclination and Orientation |      |             |             | Installation                       |                                      |                                      |          |
|-----------------|----------------|-----------------|----------------|------------|------------|----------|------|-----------------------------|------|-------------|-------------|------------------------------------|--------------------------------------|--------------------------------------|----------|
| Depth Base      | Diameter       | Depth Base      | Diameter       | Depth Top  | Depth Base | Duration | Tool | Top                         | Base | Inclination | Orientation | Top                                | Base                                 | Pipe Type                            | Diameter |
| 7.00m<br>14.45m | 200mm<br>150mm | 7.00m<br>12.00m | 200mm<br>150mm |            |            |          |      |                             |      |             |             | 0.00m<br>18.00m<br>0.00m<br>40.00m | 18.00m<br>22.00m<br>40.00m<br>42.50m | PLAIN<br>SLOTTED<br>PLAIN<br>SLOTTED |          |

**Remarks**  
Dimensions given in length x width x depth. Logging has been undertaken to provide an approximate volumetric percentage of the various constituents present. Cable percussion method utilised until 14.45m and then rotary open hole follow on through a bentonite seal from 14.45m to 43m.

# Cable Percussive Borehole Log

BOREHOLE REFERENCE  
**CP102/RH110**  
Sheet 1 of 5

|                              |                  |                                                |                         |                                |                       |
|------------------------------|------------------|------------------------------------------------|-------------------------|--------------------------------|-----------------------|
| Project Name: Ten Acres Lane |                  | Client: NUVU Developments Ltd                  |                         | Date: 27/10/2020 - 02/11/2020  |                       |
| Location: Newton Heath       |                  | Contractor: Geotron                            |                         | Co-ords: E387560.73 N400386.17 |                       |
| Project No. : LD10385        |                  | Drilling Equipment: Dando 2500 & Comacchio 205 |                         | Level : 84.00m AoD             |                       |
| Logged By<br>EG & ZH         | Checked By<br>JC | Approved By<br>MP                              | SPT Energy Ratio<br>67% |                                | Final Depth<br>41.00m |

| Instal. / Backfill | Water Strikes | Sample and In Situ Testing         |                  |                    | Depth (m) | Level (m) | Legend | Stratum Description                                                                                                                                                                                                                                                                                                                                                                                                  | Scale |
|--------------------|---------------|------------------------------------|------------------|--------------------|-----------|-----------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|                    |               | Depth (m)                          | Type             | Results            |           |           |        |                                                                                                                                                                                                                                                                                                                                                                                                                      |       |
|                    |               | 0.10                               |                  |                    | 83.90     |           |        | Driller notes TOPSOIL.<br>TF<br>Recovered as 70% loose, greyish brown, very sandy, clayey GRAVEL; 10% cobble sized inclusions of soft, brown and grey mottled, slightly sandy CLAY; 10% cobble sized red brick and concrete fragments; 5% twigs; and 5% plastic sheeting. Gravel is subangular to subrounded of fine to coarse red brick (35%); concrete (25%); coal (20%); sandstone (10%); and glass (10%).<br>GMG | 1     |
|                    |               | 1.00 – 2.00<br>1.00 – 2.00<br>1.00 | B<br>B<br>SPT(S) | N=8 (1,1/2,2,2,2)  |           |           |        |                                                                                                                                                                                                                                                                                                                                                                                                                      |       |
|                    |               | 2.00                               | SPT(S)           | N=1 (1,1/0,0,0,1)  |           |           |        |                                                                                                                                                                                                                                                                                                                                                                                                                      | 2     |
|                    |               | 2.50                               | ES               |                    | 2.50      | 81.50     |        |                                                                                                                                                                                                                                                                                                                                                                                                                      |       |
|                    |               | 3.00                               | SPT(S)           | N=13 (2,4/0,0,8,5) | 3.00      | 81.00     |        | Recovered as firm, brown, slightly sandy, gravelly CLAY. Gravel is angular to subrounded of fine to coarse red brick, concrete, sandstone and suspected clinker.<br>CMG                                                                                                                                                                                                                                              | 3     |
|                    |               | 3.40                               |                  |                    | 3.40      | 80.60     |        | Medium dense, light pink, gravelly, slightly clayey, fine to coarse SAND. Gravel is subangular to subrounded of fine to medium mudstone, siltstone, sandstone and quartz.<br>GGT                                                                                                                                                                                                                                     |       |
|                    |               | 4.00                               | SPT(S)           | N=0 (0,0/0,0,0,0)  |           |           |        | Very soft to soft, slightly sandy, slightly gravelly CLAY with occasional plant remains and rootlets. Gravel is subangular to subrounded of fine to medium mudstone, sandstone, siltstone, coal and crystalline rocks. Sand is fine to medium.<br>CGT<br>4.00m - 5.00m : Becoming stiff. Sand becoming fine. Gravel becoming subrounded to wellrounded.                                                              | 4     |
|                    |               | 5.00 – 6.00<br>5.00 – 6.00<br>5.00 | B<br>B<br>SPT(S) | N=5 (0,1/1,1,2,1)  |           |           |        | 5.00m - 5.45m : Becoming soft. No sand. Silty laminations.                                                                                                                                                                                                                                                                                                                                                           | 5     |
|                    |               | 6.00 – 7.00<br>6.00 – 7.00         | B<br>B           |                    |           |           |        | 6.00m - 7.30m : Becoming very soft.                                                                                                                                                                                                                                                                                                                                                                                  | 6     |
|                    |               | 6.50                               | SPT(S)           | N=17 (2,2/3,3,5,6) |           |           |        |                                                                                                                                                                                                                                                                                                                                                                                                                      | 7     |
|                    |               | 7.30                               |                  |                    | 7.30      | 76.70     |        | Medium dense, brown sandy, slightly clayey, subangular to well rounded, fine to coarse GRAVEL of mixed natural lithologies.<br>GGT                                                                                                                                                                                                                                                                                   |       |
|                    |               | 7.90                               |                  |                    | 7.90      | 76.10     |        | Driller notes firm, reddish brown, sandy, gravelly CLAY.<br>CGT                                                                                                                                                                                                                                                                                                                                                      | 8     |
|                    |               | 8.20                               | SPT(S)           | N=21 (2,4/6,5,5,5) |           |           |        |                                                                                                                                                                                                                                                                                                                                                                                                                      |       |
|                    |               | 9.20                               | SPT(C)           | N=18 (1,2/3,3,6,6) | 9.10      | 74.90     |        | Driller notes medium dense, reddish brown, coarse SAND with occasional laminations of clay and occasional gravels.<br>GGT                                                                                                                                                                                                                                                                                            | 9     |

| Hole Diameter    |                | Casing Diameter |                | Chiselling |            |          |      | Inclination and Orientation |      |             |             | Installation    |                  |                  |          |
|------------------|----------------|-----------------|----------------|------------|------------|----------|------|-----------------------------|------|-------------|-------------|-----------------|------------------|------------------|----------|
| Depth Base       | Diameter       | Depth Base      | Diameter       | Depth Top  | Depth Base | Duration | Tool | Top                         | Base | Inclination | Orientation | Top             | Base             | Pipe Type        | Diameter |
| 13.50m<br>41.00m | 200mm<br>150mm | 3.00m<br>41.00m | 200mm<br>150mm |            |            |          |      |                             |      |             |             | 0.00m<br>35.00m | 35.00m<br>39.00m | PLAIN<br>SLOTTED |          |

**Remarks**  
Logging has been undertaken to provide an approximate volumetric percentage of the various constituents present. Cable percussion clean drilling method utilised until 7.9m (8 inch until 3m 6 inch until 7.9) and then rotary open hole follow on through a bentonite seal from 7.9 to 41m.

# Cable Percussive Borehole Log

BOREHOLE REFERENCE  
**CP102/RH110**  
Sheet 2 of 5

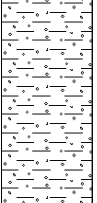
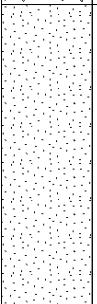
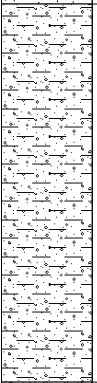
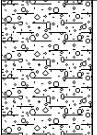
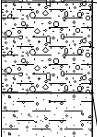
|                              |                  |                                                |                         |                                |  |
|------------------------------|------------------|------------------------------------------------|-------------------------|--------------------------------|--|
| Project Name: Ten Acres Lane |                  | Client: NUVU Developments Ltd                  |                         | Date: 27/10/2020 - 02/11/2020  |  |
| Location: Newton Heath       |                  | Contractor: Geotron                            |                         | Co-ords: E387560.73 N400386.17 |  |
| Project No. : LD10385        |                  | Drilling Equipment: Dando 2500 & Comacchio 205 |                         | Level : 84.00m AoD             |  |
| Logged By<br>EG & ZH         | Checked By<br>JC | Approved By<br>MP                              | SPT Energy Ratio<br>67% | Final Depth<br>41.00m          |  |

| Install. / Backfill | Water Strikes | Sample and In Situ Testing |        |                    | Depth (m) | Level (m) | Legend | Stratum Description                                                                                                       | Scale |
|---------------------|---------------|----------------------------|--------|--------------------|-----------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------|-------|
|                     |               | Depth (m)                  | Type   | Results            |           |           |        |                                                                                                                           |       |
|                     |               |                            |        |                    |           |           |        | Driller notes medium dense, reddish brown, coarse SAND with occasional laminations of clay and occasional gravels.<br>GGT | 10    |
|                     |               | 11.00                      | SPT(C) | N=17 (3,4/4,4,4,5) |           |           |        |                                                                                                                           | 11    |
|                     |               | 12.20                      | SPT(S) | N=20 (3,3/4,5,6,5) |           |           |        |                                                                                                                           | 12    |
|                     |               | 13.30                      | SPT(C) | N=22 (1,2/4,6,6,6) |           |           |        |                                                                                                                           | 13    |
|                     |               |                            |        |                    | 13.75     | 70.25     |        | Driller notes brown CLAY.<br>CGT                                                                                          | 14    |
|                     |               |                            |        |                    |           |           |        |                                                                                                                           | 15    |
|                     |               |                            |        |                    |           |           |        |                                                                                                                           | 16    |
|                     |               |                            |        |                    |           |           |        |                                                                                                                           | 17    |
|                     |               |                            |        |                    | 18.00     | 66.00     |        | Driller notes GRAVELS.<br>GGT                                                                                             | 18    |
|                     |               |                            |        |                    |           |           |        |                                                                                                                           | 19    |
|                     |               |                            |        |                    | 19.50     | 64.50     |        | Driller notes gravelly CLAY.<br>CGT                                                                                       |       |

| Hole Diameter    |                | Casing Diameter |                | Chiselling |            |          |      | Inclination and Orientation |      |             |             | Installation    |                  |                  |          |
|------------------|----------------|-----------------|----------------|------------|------------|----------|------|-----------------------------|------|-------------|-------------|-----------------|------------------|------------------|----------|
| Depth Base       | Diameter       | Depth Base      | Diameter       | Depth Top  | Depth Base | Duration | Tool | Top                         | Base | Inclination | Orientation | Top             | Base             | Pipe Type        | Diameter |
| 13.50m<br>41.00m | 200mm<br>150mm | 3.00m<br>41.00m | 200mm<br>150mm |            |            |          |      |                             |      |             |             | 0.00m<br>35.00m | 35.00m<br>39.00m | PLAIN<br>SLOTTED |          |

**Remarks**  
Logging has been undertaken to provide an approximate volumetric percentage of the various constituents present. Cable percussion clean drilling method utilised until 7.9m (8 inch until 3m 6 inch until 7.9) and then rotary open hole follow on through a bentonite seal from 7.9 to 41m.

|                              |                  |                                                |                         |                                |  |
|------------------------------|------------------|------------------------------------------------|-------------------------|--------------------------------|--|
| Project Name: Ten Acres Lane |                  | Client: NUVU Developments Ltd                  |                         | Date: 27/10/2020 - 02/11/2020  |  |
| Location: Newton Heath       |                  | Contractor: Geotron                            |                         | Co-ords: E387560.73 N400386.17 |  |
| Project No. : LD10385        |                  | Drilling Equipment: Dando 2500 & Comacchio 205 |                         | Level : 84.00m AoD             |  |
| Logged By<br>EG & ZH         | Checked By<br>JC | Approved By<br>MP                              | SPT Energy Ratio<br>67% | Final Depth<br>41.00m          |  |

| Instal. / Backfill | Water Strikes | Sample and In Situ Testing |      |         | Depth (m) | Level (m) | Legend                                                                              | Stratum Description                                                                                                                                                                                                                                                                                          | Scale |
|--------------------|---------------|----------------------------|------|---------|-----------|-----------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|                    |               | Depth (m)                  | Type | Results |           |           |                                                                                     |                                                                                                                                                                                                                                                                                                              |       |
|                    |               |                            |      |         | 21.00     | 63.00     |    | Driller notes gravelly CLAY.<br>CGT                                                                                                                                                                                                                                                                          | 20    |
|                    |               |                            |      |         |           |           |    | Driller notes SAND.<br>GGT                                                                                                                                                                                                                                                                                   | 21    |
|                    |               |                            |      |         | 23.00     | 61.00     |   | Driller notes boulder CLAY.<br>CGT                                                                                                                                                                                                                                                                           | 23    |
|                    |               | 24.00 – 25.50              | C    |         |           |           |                                                                                     |                                                                                                                                                                                                                                                                                                              | 24    |
|                    |               | 25.50 – 27.00              | C    |         | 25.50     | 58.50     |  | Stiff to very stiff, brown, slightly gravelly, slightly sandy CLAY with possible medium cobble content. Cobbles are subrounded mixed natural lithologies. Gravel is fine to coarse, subangular to subrounded of gritstone, sandstone, crystalline rocks, and mixed natural lithologies. Sand is fine.<br>CGT | 26    |
|                    |               |                            |      |         | 26.40     | 57.60     |  | Soft, wet, brown, slightly sandy, slightly gravelly CLAY with possible medium cobble content. Cobbles are subrounded mixed natural lithologies. Gravel is fine to coarse, subangular to subrounded of gritstone, sandstone, crystalline rocks, and mixed natural lithologies. Sand is fine.<br>CGT           | 27    |
|                    |               |                            |      |         | 27.00     | 57.00     |  | 26.70m - 27.00m : No core recovery.<br>Driller notes boulder CLAY.<br>CGT                                                                                                                                                                                                                                    | 28    |
|                    |               |                            |      |         |           |           |                                                                                     |                                                                                                                                                                                                                                                                                                              | 29    |

| Hole Diameter    |                | Casing Diameter |                | Chiselling |            |          |      | Inclination and Orientation |      |             |             | Installation    |                  |                  |          |
|------------------|----------------|-----------------|----------------|------------|------------|----------|------|-----------------------------|------|-------------|-------------|-----------------|------------------|------------------|----------|
| Depth Base       | Diameter       | Depth Base      | Diameter       | Depth Top  | Depth Base | Duration | Tool | Top                         | Base | Inclination | Orientation | Top             | Base             | Pipe Type        | Diameter |
| 13.50m<br>41.00m | 200mm<br>150mm | 3.00m<br>41.00m | 200mm<br>150mm |            |            |          |      |                             |      |             |             | 0.00m<br>35.00m | 35.00m<br>39.00m | PLAIN<br>SLOTTED |          |

**Remarks**  
Logging has been undertaken to provide an approximate volumetric percentage of the various constituents present. Cable percussion clean drilling method utilised until 7.9m (8 inch until 3m 6 inch until 7.9) and then rotary open hole follow on through a bentonite seal from 7.9 to 41m.

# Cable Percussive Borehole Log

BOREHOLE REFERENCE  
**CP102/RH110**  
Sheet 4 of 5

|                              |                  |                                                |                         |                                |  |
|------------------------------|------------------|------------------------------------------------|-------------------------|--------------------------------|--|
| Project Name: Ten Acres Lane |                  | Client: NUVU Developments Ltd                  |                         | Date: 27/10/2020 - 02/11/2020  |  |
| Location: Newton Heath       |                  | Contractor: Geotron                            |                         | Co-ords: E387560.73 N400386.17 |  |
| Project No. : LD10385        |                  | Drilling Equipment: Dando 2500 & Comacchio 205 |                         | Level : 84.00m AoD             |  |
| Logged By<br>EG & ZH         | Checked By<br>JC | Approved By<br>MP                              | SPT Energy Ratio<br>67% | Final Depth<br>41.00m          |  |

| Instal. / Backfill | Water Strikes | Sample and In Situ Testing |      |         | Depth (m) | Level (m) | Legend | Stratum Description                                                                                                                                                                                                                        | Scale |
|--------------------|---------------|----------------------------|------|---------|-----------|-----------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|                    |               | Depth (m)                  | Type | Results |           |           |        |                                                                                                                                                                                                                                            |       |
|                    |               |                            |      |         |           |           |        | Driller notes boulder CLAY.<br>CGT                                                                                                                                                                                                         | 30    |
|                    |               |                            |      |         |           |           |        |                                                                                                                                                                                                                                            | 31    |
|                    |               |                            |      |         |           |           |        |                                                                                                                                                                                                                                            | 32    |
|                    |               |                            |      |         |           |           |        |                                                                                                                                                                                                                                            | 33    |
|                    |               |                            |      |         |           |           |        |                                                                                                                                                                                                                                            | 34    |
|                    |               |                            |      |         |           |           |        |                                                                                                                                                                                                                                            | 35    |
|                    |               | 36.00 – 38.00              | D    |         | 36.00     | 48.00     |        | Recovered as damp, brown, slightly gravelly SAND. Gravel is subangular to subrounded of fine to coarse quartz, crystalline rocks and red sandstone.<br>GGT<br>36.00m - 38.00m : Driller notes soft clay lamination. Drillers' description. | 36    |
|                    |               |                            |      |         |           |           |        |                                                                                                                                                                                                                                            | 37    |
|                    |               |                            |      |         |           |           |        |                                                                                                                                                                                                                                            | 38    |
|                    |               |                            |      |         |           |           |        |                                                                                                                                                                                                                                            | 39    |

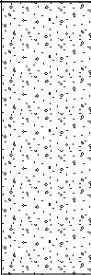
| Hole Diameter    |                | Casing Diameter |                | Chiselling |            |          |      | Inclination and Orientation |      |             |             | Installation    |                  |                  |          |
|------------------|----------------|-----------------|----------------|------------|------------|----------|------|-----------------------------|------|-------------|-------------|-----------------|------------------|------------------|----------|
| Depth Base       | Diameter       | Depth Base      | Diameter       | Depth Top  | Depth Base | Duration | Tool | Top                         | Base | Inclination | Orientation | Top             | Base             | Pipe Type        | Diameter |
| 13.50m<br>41.00m | 200mm<br>150mm | 3.00m<br>41.00m | 200mm<br>150mm |            |            |          |      |                             |      |             |             | 0.00m<br>35.00m | 35.00m<br>39.00m | PLAIN<br>SLOTTED |          |

**Remarks**  
Logging has been undertaken to provide an approximate volumetric percentage of the various constituents present. Cable percussion clean drilling method utilised until 7.9m (8 inch until 3m 6 inch until 7.9) and then rotary open hole follow on through a bentonite seal from 7.9 to 41m.

# Cable Percussive Borehole Log

BOREHOLE REFERENCE  
**CP102/RH110**  
Sheet 5 of 5

|                              |                  |                                                |                         |                                |  |
|------------------------------|------------------|------------------------------------------------|-------------------------|--------------------------------|--|
| Project Name: Ten Acres Lane |                  | Client: NUVU Developments Ltd                  |                         | Date: 27/10/2020 - 02/11/2020  |  |
| Location: Newton Heath       |                  | Contractor: Geotron                            |                         | Co-ords: E387560.73 N400386.17 |  |
| Project No. : LD10385        |                  | Drilling Equipment: Dando 2500 & Comacchio 205 |                         | Level : 84.00m AoD             |  |
| Logged By<br>EG & ZH         | Checked By<br>JC | Approved By<br>MP                              | SPT Energy Ratio<br>67% | Final Depth<br>41.00m          |  |

| Instal. /<br>Backfill | Water<br>Strikes | Sample and In Situ Testing |      |         | Depth<br>(m) | Level<br>(m) | Legend                                                                            | Stratum Description                                                                                                                                     | Scale |
|-----------------------|------------------|----------------------------|------|---------|--------------|--------------|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|                       |                  | Depth (m)                  | Type | Results |              |              |                                                                                   |                                                                                                                                                         |       |
|                       |                  |                            |      |         | 41.00        | 43.00        |  | Recovered as damp, brown, slightly gravelly SAND. Gravel is subangular to subrounded of fine to coarse quartz, crystalline rocks and red sandstone. GGT | 40    |
|                       |                  |                            |      |         |              |              |                                                                                   | End of Borehole at 41.00m                                                                                                                               | 41    |
|                       |                  |                            |      |         |              |              |                                                                                   |                                                                                                                                                         | 42    |
|                       |                  |                            |      |         |              |              |                                                                                   |                                                                                                                                                         | 43    |
|                       |                  |                            |      |         |              |              |                                                                                   |                                                                                                                                                         | 44    |
|                       |                  |                            |      |         |              |              |                                                                                   |                                                                                                                                                         | 45    |
|                       |                  |                            |      |         |              |              |                                                                                   |                                                                                                                                                         | 46    |
|                       |                  |                            |      |         |              |              |                                                                                   |                                                                                                                                                         | 47    |
|                       |                  |                            |      |         |              |              |                                                                                   |                                                                                                                                                         | 48    |

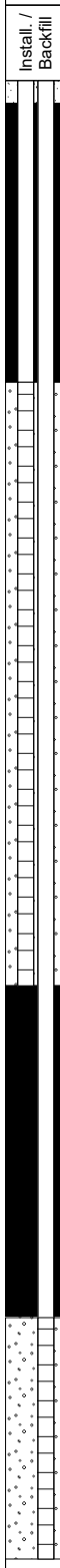
| Hole Diameter    |                | Casing Diameter |                | Chiselling |            |          |      | Inclination and Orientation |      |             |             | Installation    |                  |                  |          |
|------------------|----------------|-----------------|----------------|------------|------------|----------|------|-----------------------------|------|-------------|-------------|-----------------|------------------|------------------|----------|
| Depth Base       | Diameter       | Depth Base      | Diameter       | Depth Top  | Depth Base | Duration | Tool | Top                         | Base | Inclination | Orientation | Top             | Base             | Pipe Type        | Diameter |
| 13.50m<br>41.00m | 200mm<br>150mm | 3.00m<br>41.00m | 200mm<br>150mm |            |            |          |      |                             |      |             |             | 0.00m<br>35.00m | 35.00m<br>39.00m | PLAIN<br>SLOTTED |          |

**Remarks**  
Logging has been undertaken to provide an approximate volumetric percentage of the various constituents present. Cable percussion clean drilling method utilised until 7.9m (8 inch until 3m 6 inch until 7.9) and then rotary open hole follow on through a bentonite seal from 7.9 to 41m.

# Cable Percussive Borehole Log

BOREHOLE REFERENCE  
**CP103**  
Sheet 1 of 4

|                              |                  |                                                |                         |                                |                       |
|------------------------------|------------------|------------------------------------------------|-------------------------|--------------------------------|-----------------------|
| Project Name: Ten Acres Lane |                  | Client: NUVU Developments Ltd                  |                         | Date: 22/10/2020 - 27/10/2020  |                       |
| Location: Newton Heath       |                  | Contractor: Geotron                            |                         | Co-ords: E387694.00 N400344.00 |                       |
| Project No. : LD10385        |                  | Drilling Equipment: Dando 2500 & Comacchio 205 |                         | Level : 85.85m AoD             |                       |
| Logged By<br>ZH              | Checked By<br>JC | Approved By<br>MP                              | SPT Energy Ratio<br>67% |                                | Final Depth<br>15.00m |

| Install. / Backfill                                                                | Sample and In Situ Testing |          |                      | Depth (m) | Level (m) | Legend | Stratum Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Scale |
|------------------------------------------------------------------------------------|----------------------------|----------|----------------------|-----------|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|                                                                                    | Depth (m)                  | Type     | Results              |           |           |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       |
|  | 0.50                       |          | 0.50ppmv             | 0.40      | 85.45     |        | Recovered as 70% loose, brown, slightly clayey, sandy GRAVEL; 15% whole and half red brick; 10% cobble sized wood fragments; and 5% roots and rootlets. Gravel is angular to subangular of fine to coarse red brick (70%), suspected clinker (15%), slate (5%) and mixed lithologies (10%). Slight hydrocarbon odour.<br>GMG                                                                                                                                                                                                                               | 1     |
|                                                                                    | 1.20                       | SPT(C)   | N=4 (1,0/0,1,1,2)    |           |           |        | Recovered as 35% loose, dark brown, slightly clayey, sandy GRAVEL; 25% whole and half red brick; 20% cobble sized timber fragments; 10% plastic sheeting; and 10% cobble sized metal fragments. Gravel is subangular to subrounded of fine to coarse red brick (60%), suspected clinker (15%), wood (10%), glass (5%) and mixed lithologies (10%).<br>DW                                                                                                                                                                                                   |       |
|                                                                                    | 1.50                       |          | 3.50ppmv             |           |           |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       |
|                                                                                    | 2.00 – 3.00                | ES       |                      |           |           |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2     |
|                                                                                    | 2.20                       | SPT(S)   | N=8 (1,1/1,1,2,4)    | 2.20      | 83.65     |        | Recovered as 95% medium dense, brown, stained black in places, sandy, slightly clayey GRAVEL; and 5% cobble sized timber fragments. Gravel is subangular to subrounded of fine to coarse medium grained sandstone (40%), red brick (30%), green crystalline rock (10%) and gravel sized inclusions of soft, dark brown, slightly sandy CLAY (10%), concrete (5%) and glass (5%).<br>CMG                                                                                                                                                                    |       |
|                                                                                    | 2.50                       |          | 1.70ppmv             |           |           |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       |
|                                                                                    | 3.00                       | SPT(S)   | N=17 (2,2/2,4,5,6)   |           |           |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 3     |
|                                                                                    | 3.50                       |          | 1.00ppmv             | 3.45      | 82.40     |        | Recovered as 45% medium dense, brown, slightly sandy, slightly clayey GRAVEL; 20% cobble sized red brick; fragments; 20% cobble sized timber fragments; and 15% cobble sized inclusions of soft, brown, stained black, slightly sandy, slightly gravelly CLAY. Gravel is subangular to subrounded of fine to medium red brick (20%), sandstone (10%), concrete (10%), glass (5%), plastic (5%), wood fragments (5%) and mixed lithologies (45%). Sand is fine to medium.<br>GMG                                                                            |       |
|                                                                                    | 4.00 – 5.00                | ES       |                      | 4.20      | 81.65     |        | Recovered as 80% cobble sized inclusions of soft, friable, black, slightly gravelly CLAY; 5% fabric; 5% metal, 5% plastic sheeting; and 5% wood fragments. Gravel is subangular to subrounded of fine to medium concrete, wood fragments, mudstone, sandstone, and mixed lithologies.<br>CMG                                                                                                                                                                                                                                                               |       |
|                                                                                    | 5.00                       | SPT(S)   | N=4 (2,2/1,1,1,1)    | 4.65      | 81.20     |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 5     |
|                                                                                    | 5.50                       |          | 4.30ppmv             | 5.80      | 80.05     |        | Recovered as 45% loose, brown, stained black, slightly sandy, slightly clayey GRAVEL; 10% cobble sized fragments of light brown, medium grained sandstone and concrete; 10% plastic (bottles); 10% cobble sized timber fragments; 15% cobble sized red brick fragments; 5% cobble sized inclusions of very soft, brown, stained black, slightly sandy CLAY; and 5% fabric. Gravel is angular to subrounded of fine to coarse red brick (20%), wood (15%), ceramic (5%), glass (5%), plastic (5%), and mixed lithologies (50%).<br>Hydrocarbon odour.<br>DW |       |
|                                                                                    | 6.50                       | SPT(S)   | N=5 (1,0/0,1,2,2)    |           |           |        | 5.60m - 7.00m : Hydrocarbon odour.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |
|                                                                                    | 8.00 – 9.00                | B SPT(S) | N=32 (1,2/3,6,10,13) | 8.20      | 77.65     |        | Recovered as 35% medium dense, multicoloured, slightly sandy GRAVEL; 30% cobble sized red brick fragments; 15% cobble sized timber fragments; 10% cobble sized inclusions of soft, brown, stained black, slightly gravelly CLAY; 5% fabric; 2.5% plastic; and 2.5% cobble sized crystalline rock fragments. Gravel is subangular to subrounded of fine to coarse red brick (30%), crystalline rocks (30%), ceramic (5%), glass (5%) and mixed lithologies (30%).<br>DW                                                                                     | 7     |
|                                                                                    | 8.50                       |          | 0.50ppmv             |           |           |        | 6.50m - 6.95m : No recovery from SPT.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |
|                                                                                    | 9.00 – 10.00               | ES       |                      |           |           |        | Recovered as medium dense, damp, brown, fine to medium, slightly gravelly, slightly clayey SAND. Gravel is subangular to subrounded of fine to coarse red mudstone, crystalline rocks, sandstone, and hard, black glassy rock.<br>GGT                                                                                                                                                                                                                                                                                                                      |       |
|                                                                                    | 9.50                       | SPT(S)   | N=8 (1,1/1,2,2,3)    | 9.70      | 76.15     |        | 8.20m : Driller notes sandstone boulder. Drillers' description.<br>8.45m - 9.00m : Moderate cobble content. Cobbles are subangular to subrounded of brown, medium grained sandstone.<br>Firm, soft where wet, brown, slightly gravelly, sandy CLAY with possible medium cobble content. Cobbles are subrounded of sandstone. Gravel is subangular to subrounded of fine to coarse mixed natural lithologies. Sand is fine to medium.<br>CGT                                                                                                                | 9     |
|                                                                                    | 9.50                       |          | 0.20ppmv             |           |           |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       |

| Hole Diameter |          | Casing Diameter |                | Chiselling |            |          |      | Inclination and Orientation |      |             |             | Installation                     |                                   |                                      |          |
|---------------|----------|-----------------|----------------|------------|------------|----------|------|-----------------------------|------|-------------|-------------|----------------------------------|-----------------------------------|--------------------------------------|----------|
| Depth Base    | Diameter | Depth Base      | Diameter       | Depth Top  | Depth Base | Duration | Tool | Top                         | Base | Inclination | Orientation | Top                              | Base                              | Pipe Type                            | Diameter |
| 15.00m        | 200mm    | 8.20m<br>15.00m | 200mm<br>150mm | 8.00m      | 9.00m      | 01:20    |      |                             |      |             |             | 0.00m<br>2.00m<br>0.00m<br>8.20m | 2.00m<br>6.00m<br>8.20m<br>10.00m | PLAIN<br>SLOTTED<br>PLAIN<br>SLOTTED |          |

**Remarks**  
Logging has been undertaken to provide an approximate volumetric percentage of the various constituents present. Cable percussion clean drilling method utilised. 8 inch casing used until 8.2m, where a bentonite seal was placed then 6 inch casing until 15m.

# Cable Percussive Borehole Log

BOREHOLE REFERENCE

**CP103**

Sheet 2 of 4

|                              |                  |                                                |                         |                                |                       |
|------------------------------|------------------|------------------------------------------------|-------------------------|--------------------------------|-----------------------|
| Project Name: Ten Acres Lane |                  | Client: NUVU Developments Ltd                  |                         | Date: 22/10/2020 - 27/10/2020  |                       |
| Location: Newton Heath       |                  | Contractor: Geotron                            |                         | Co-ords: E387694.00 N400344.00 |                       |
| Project No. : LD10385        |                  | Drilling Equipment: Dando 2500 & Comacchio 205 |                         | Level : 85.85m AoD             |                       |
| Logged By<br>ZH              | Checked By<br>JC | Approved By<br>MP                              | SPT Energy Ratio<br>67% |                                | Final Depth<br>15.00m |

| Instal. / Backfill                                                                 | Sample and In Situ Testing |        |                     | Depth (m) | Level (m) | Legend                                                                              | Stratum Description                                                                                                                                                                                                                              | Scale |
|------------------------------------------------------------------------------------|----------------------------|--------|---------------------|-----------|-----------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|                                                                                    | Depth (m)                  | Type   | Results             |           |           |                                                                                     |                                                                                                                                                                                                                                                  |       |
|  | 11.00 – 12.00              | B      | N=15 (1,2/3,3,4,5)  | 10.50     | 75.35     |   | Firm, soft where wet, brown, slightly gravelly, sandy CLAY with possible medium cobble content. Cobbles are subrounded of sandstone. Gravel is subangular to subrounded of fine to coarse mixed natural lithologies. Sand is fine to medium. CGT | 10    |
|                                                                                    | 11.00 – 12.00              | B      |                     |           |           |                                                                                     | Soft, wet, brown, slightly sandy, slightly gravelly CLAY with possible medium cobble content. Cobbles are subrounded of sandstone. Gravel is subangular to subrounded of fine to coarse mixed natural lithologies. Sand is fine. CGT             | 11    |
|                                                                                    | 11.00                      | SPT(S) |                     |           |           |                                                                                     | 11.00m - 12.00m : Becomes firm.                                                                                                                                                                                                                  |       |
|                                                                                    | 12.50                      | SPT(S) | N=29 (4,2/3,7,9,10) | 15.00     | 70.85     |  | 12.00m - 14.00m : Wet and very soft.                                                                                                                                                                                                             | 12    |
|                                                                                    | 14.00                      | SPT(S) | N=37 (4,4/8,8,9,12) |           |           |                                                                                     |                                                                                                                                                                                                                                                  | 13    |
|                                                                                    | 14.50                      |        | 0.20ppmv            |           |           |                                                                                     |                                                                                                                                                                                                                                                  | 14    |
|                                                                                    |                            |        |                     |           |           |                                                                                     | End of Borehole at 15.00m                                                                                                                                                                                                                        | 15    |
|                                                                                    |                            |        |                     |           |           |                                                                                     |                                                                                                                                                                                                                                                  | 16    |
|                                                                                    |                            |        |                     |           |           |                                                                                     |                                                                                                                                                                                                                                                  | 17    |
|                                                                                    |                            |        |                     |           |           |                                                                                     |                                                                                                                                                                                                                                                  | 18    |
|                                                                                    |                            |        |                     |           |           |                                                                                     |                                                                                                                                                                                                                                                  | 19    |

| Hole Diameter |          | Casing Diameter |                | Chiselling |            |          |      | Inclination and Orientation |      |             |             | Installation                     |                                   |                                      |          |
|---------------|----------|-----------------|----------------|------------|------------|----------|------|-----------------------------|------|-------------|-------------|----------------------------------|-----------------------------------|--------------------------------------|----------|
| Depth Base    | Diameter | Depth Base      | Diameter       | Depth Top  | Depth Base | Duration | Tool | Top                         | Base | Inclination | Orientation | Top                              | Base                              | Pipe Type                            | Diameter |
| 15.00m        | 200mm    | 8.20m<br>15.00m | 200mm<br>150mm | 8.00m      | 9.00m      | 01:20    |      |                             |      |             |             | 0.00m<br>2.00m<br>0.00m<br>8.20m | 2.00m<br>6.00m<br>8.20m<br>10.00m | PLAIN<br>SLOTTED<br>PLAIN<br>SLOTTED |          |

## Remarks

Logging has been undertaken to provide an approximate volumetric percentage of the various constituents present. Cable percussion clean drilling method utilised. 8 inch casing used until 8.2m, where a bentonite seal was placed then 6 inch casing until 15m.



# Cable Percussive Borehole Log

BOREHOLE REFERENCE

**CP103**

Sheet 3 of 4

|                              |  |                                                |  |                                |  |
|------------------------------|--|------------------------------------------------|--|--------------------------------|--|
| Project Name: Ten Acres Lane |  | Client: NUVU Developments Ltd                  |  | Date: 22/10/2020 - 27/10/2020  |  |
| Location: Newton Heath       |  | Contractor: Geotron                            |  | Co-ords: E387694.00 N400344.00 |  |
| Project No. : LD10385        |  | Drilling Equipment: Dando 2500 & Comacchio 205 |  | Level : 85.85m AoD             |  |
| Logged By<br>ZH              |  | Checked By<br>JC                               |  | Approved By<br>MP              |  |
|                              |  | SPT Energy Ratio<br>67%                        |  | Final Depth<br>15.00m          |  |

| Instal. /<br>Backfill | Sample and In Situ Testing |      |         | Depth<br>(m) | Level<br>(m) | Legend | Stratum Description | Scale |
|-----------------------|----------------------------|------|---------|--------------|--------------|--------|---------------------|-------|
|                       | Depth (m)                  | Type | Results |              |              |        |                     |       |
|                       |                            |      |         |              |              |        |                     | 20    |
|                       |                            |      |         |              |              |        |                     | 21    |
|                       |                            |      |         |              |              |        |                     | 22    |
|                       |                            |      |         |              |              |        |                     | 23    |
|                       |                            |      |         |              |              |        |                     | 24    |
|                       |                            |      |         |              |              |        |                     | 25    |
|                       |                            |      |         |              |              |        |                     | 26    |
|                       |                            |      |         |              |              |        |                     | 27    |
|                       |                            |      |         |              |              |        |                     | 28    |
|                       |                            |      |         |              |              |        |                     | 29    |

| Hole Diameter |          | Casing Diameter |                | Chiselling |            |          |      | Inclination and Orientation |      |             |             | Installation                     |                                   |                                      |          |
|---------------|----------|-----------------|----------------|------------|------------|----------|------|-----------------------------|------|-------------|-------------|----------------------------------|-----------------------------------|--------------------------------------|----------|
| Depth Base    | Diameter | Depth Base      | Diameter       | Depth Top  | Depth Base | Duration | Tool | Top                         | Base | Inclination | Orientation | Top                              | Base                              | Pipe Type                            | Diameter |
| 15.00m        | 200mm    | 8.20m<br>15.00m | 200mm<br>150mm | 8.00m      | 9.00m      | 01:20    |      |                             |      |             |             | 0.00m<br>2.00m<br>0.00m<br>8.20m | 2.00m<br>6.00m<br>8.20m<br>10.00m | PLAIN<br>SLOTTED<br>PLAIN<br>SLOTTED |          |

## Remarks

Logging has been undertaken to provide an approximate volumetric percentage of the various constituents present. Cable percussion clean drilling method utilised. 8 inch casing used until 8.2m, where a bentonite seal was placed then 6 inch casing until 15m.



# Cable Percussive Borehole Log

BOREHOLE REFERENCE  
**CP103**  
Sheet 4 of 4

|                              |  |                                                |  |                                |  |
|------------------------------|--|------------------------------------------------|--|--------------------------------|--|
| Project Name: Ten Acres Lane |  | Client: NUVU Developments Ltd                  |  | Date: 22/10/2020 - 27/10/2020  |  |
| Location: Newton Heath       |  | Contractor: Geotron                            |  | Co-ords: E387694.00 N400344.00 |  |
| Project No. : LD10385        |  | Drilling Equipment: Dando 2500 & Comacchio 205 |  | Level : 85.85m AoD             |  |
| Logged By<br>ZH              |  | Checked By<br>JC                               |  | Approved By<br>MP              |  |
|                              |  |                                                |  | SPT Energy Ratio<br>67%        |  |
|                              |  |                                                |  | Final Depth<br>15.00m          |  |

| Instal. /<br>Backfill | Sample and In Situ Testing |      |         | Depth<br>(m) | Level<br>(m) | Legend | Stratum Description | Scale |
|-----------------------|----------------------------|------|---------|--------------|--------------|--------|---------------------|-------|
|                       | Depth (m)                  | Type | Results |              |              |        |                     |       |
|                       |                            |      |         |              |              |        |                     | 30    |
|                       |                            |      |         |              |              |        |                     | 31    |
|                       |                            |      |         |              |              |        |                     | 32    |
|                       |                            |      |         |              |              |        |                     | 33    |
|                       |                            |      |         |              |              |        |                     | 34    |
|                       |                            |      |         |              |              |        |                     | 35    |
|                       |                            |      |         |              |              |        |                     | 36    |
|                       |                            |      |         |              |              |        |                     | 37    |
|                       |                            |      |         |              |              |        |                     | 38    |
|                       |                            |      |         |              |              |        |                     | 39    |

| Hole Diameter |          | Casing Diameter |                | Chiselling |            |          |      | Inclination and Orientation |      |             |             | Installation                     |                                   |                                      |          |
|---------------|----------|-----------------|----------------|------------|------------|----------|------|-----------------------------|------|-------------|-------------|----------------------------------|-----------------------------------|--------------------------------------|----------|
| Depth Base    | Diameter | Depth Base      | Diameter       | Depth Top  | Depth Base | Duration | Tool | Top                         | Base | Inclination | Orientation | Top                              | Base                              | Pipe Type                            | Diameter |
| 15.00m        | 200mm    | 8.20m<br>15.00m | 200mm<br>150mm | 8.00m      | 9.00m      | 01:20    |      |                             |      |             |             | 0.00m<br>2.00m<br>0.00m<br>8.20m | 2.00m<br>6.00m<br>8.20m<br>10.00m | PLAIN<br>SLOTTED<br>PLAIN<br>SLOTTED |          |

## Remarks

Logging has been undertaken to provide an approximate volumetric percentage of the various constituents present. Cable percussion clean drilling method utilised. 8 inch casing used until 8.2m, where a bentonite seal was placed then 6 inch casing until 15m.

# Cable Percussive Borehole Log

BOREHOLE REFERENCE  
**CP104**  
Sheet 1 of 2

|                              |                                |                                |
|------------------------------|--------------------------------|--------------------------------|
| Project Name: Ten Acres Lane | Client: NUVU Developments Ltd  | Date: 12/10/2020 - 13/10/2020  |
| Location: Newton Heath       | Contractor: Geotron            | Co-ords: E387561.89 N400245.14 |
| Project No. : LD10385        | Drilling Equipment: Dando 2500 | Level : 83.40m AoD             |

|                 |                  |                   |                         |                       |
|-----------------|------------------|-------------------|-------------------------|-----------------------|
| Logged By<br>EG | Checked By<br>JC | Approved By<br>MP | SPT Energy Ratio<br>67% | Final Depth<br>13.30m |
|-----------------|------------------|-------------------|-------------------------|-----------------------|

| Instal. / Backfill                                                                 | Water Strikes | Sample and In Situ Testing |        |                       | Depth (m) | Level (m) | Legend | Stratum Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Scale |
|------------------------------------------------------------------------------------|---------------|----------------------------|--------|-----------------------|-----------|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|                                                                                    |               | Depth (m)                  | Type   | Results               |           |           |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |
|  |               | 0.50                       | ES     |                       |           |           |        | Recovered as 70% loose, brown, very clayey, very sandy/ashy GRAVEL; 20% cobble sized red brick and concrete fragments; and 5% cobble sized inclusions of firm, greenish grey and brown mottled CLAY with rootlets; 5% cobble sized slate fragments. Gravel is angular to subangular of fine to coarse brick (70%), suspected slag (20%), and concrete (10%). Strong chemical odour. GMG                                                                                                  | 1     |
|                                                                                    |               | 1.20                       | SPT(S) | N=9 (3,4/4,3,1,1)     | 1.60      | 81.80     |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |
|                                                                                    |               | 2.00                       | SPT(S) | N=30 (2,3/5,1,10,14)  | 2.05      | 81.35     |        | Recovered as dark grey, mottled light brown, slightly sandy, slightly gravelly CLAY with occasional rootlets. Gravel is angular to subrounded of fine to coarse brick (40%), sandstone (20%), timber (20%), mudstone (10%), and concrete (10%). Slight odour. CMG                                                                                                                                                                                                                        | 2     |
|                                                                                    |               | 2.70                       | ES     |                       |           |           |        | Recovered as loose, light pink, gravelly, fine to medium SAND. Gravel is subangular to subrounded of fine to coarse sandstone, red brick and mudstone. GMG                                                                                                                                                                                                                                                                                                                               |       |
|                                                                                    |               | 3.00                       | SPT(S) | N=4 (4,2/1,1,1,1)     | 3.00      | 80.40     |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 3     |
|                                                                                    |               | 4.00                       | SPT(S) | N=39 (4,6/8,11,7,13)  | 4.60      | 78.80     |        | Recovered as 80% dense, dark grey, stained black, very gravelly, clayey SAND; and 20% carpet fragments. Gravel is angular to subangular of fine to coarse sandstone (60%), brick (20%), and glass (20%). Strong odour. HW<br>3.50m : Rare plastic sheeting and timber fragments (15cm), and occasional metal (35cm).                                                                                                                                                                     | 4     |
|                                                                                    |               | 5.00                       | SPT(S) | N=50 (4,5/5,11,13,21) |           |           |        | Recovered as 65% very dense, dark grey, sandy/ashy, slightly clayey GRAVEL; 25% whole and half red brick; 5% plastic (sheets and bags); and 5% cobble sized metal fragments. Gravel is angular to subangular of fine to coarse brick (60%), concrete (15%), glass (15%), suspected slag (5%) and mudstone (5%). Odour. GMG<br>5.00m : A single concrete cobble (25cm).<br>5.00m - 6.00m : Rare cobble sized inclusions of firm, brown, black and grey mottled, silty CLAY with rootlets. | 5     |
|                                                                                    |               | 6.00                       | SPT(S) | N=28 (1,4/6,5,9,8)    | 6.00      | 77.40     |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 6     |
|                                                                                    |               |                            |        |                       | 6.45      | 76.95     |        | Recovered as dense, black, gravelly, slightly clayey, fine to medium SAND. Gravel is angular to subangular of red brick. Slight odour. GMG                                                                                                                                                                                                                                                                                                                                               |       |
|                                                                                    |               | 7.00                       | SPT(C) | N=10 (1,1/1,3,3,3)    | 7.00      | 76.40     |        | Recovered as 65% cobble sized red brick fragments; 20% medium dense, reddish brown, gravelly, slightly clayey SAND; 10% cobble sized metal fragments; and 5% cobble sized timber fragments. Gravel is angular to subangular of red brick (80%) and concrete (20%). Odour. DW                                                                                                                                                                                                             | 7     |
|                                                                                    |               | 7.30                       | ES     |                       |           |           |        | Recovered as 55% medium dense, dark grey to black, very sandy, clayey GRAVEL; 15% cobble sized suspected slag fragments; 15% whole and half red brick; 5% cobble sized timber fragments; 5% cobble sized metal fragments; and 5% plastic cup fragments. Gravel is angular to subangular of fine to coarse red brick, concrete, suspected slag and glass. Strong odour. DW                                                                                                                | 8     |
|                                                                                    |               | 8.65                       | SPT(C) | N=16 (2,7/5,5,2,4)    |           |           |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |
|                                                                                    |               | 9.10                       | SPT(C) | N=13 (7,4/2,2,7,2)    |           |           |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 9     |
|                                                                                    |               |                            |        |                       | 9.60      | 73.80     |        | 9.40m : Metal obstruction<br>Firm, light brown, slightly gravelly CLAY possibly with occasional silt laminations. Gravel is subangular to subrounded of fine mixed natural lithologies. CGT                                                                                                                                                                                                                                                                                              |       |

| Hole Diameter |          | Casing Diameter |          | Chiselling              |                         |                         |      | Inclination and Orientation |      |             |             | Installation |      |           |          |
|---------------|----------|-----------------|----------|-------------------------|-------------------------|-------------------------|------|-----------------------------|------|-------------|-------------|--------------|------|-----------|----------|
| Depth Base    | Diameter | Depth Base      | Diameter | Depth Top               | Depth Base              | Duration                | Tool | Top                         | Base | Inclination | Orientation | Top          | Base | Pipe Type | Diameter |
| 13.30m        | 200mm    | 11.00m          | 200mm    | 4.45m<br>5.40m<br>9.50m | 4.60m<br>5.70m<br>9.80m | 01:00<br>01:00<br>01:00 |      |                             |      |             |             |              |      |           |          |

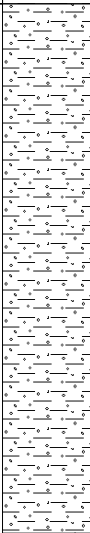
Remarks  
Logging has been undertaken to provide an approximate volumetric percentage of the various constituents present.

# Cable Percussive Borehole Log

BOREHOLE REFERENCE  
**CP104**  
Sheet 2 of 2

|                              |                                |                                |
|------------------------------|--------------------------------|--------------------------------|
| Project Name: Ten Acres Lane | Client: NUVU Developments Ltd  | Date: 12/10/2020 - 13/10/2020  |
| Location: Newton Heath       | Contractor: Geotron            | Co-ords: E387561.89 N400245.14 |
| Project No. : LD10385        | Drilling Equipment: Dando 2500 | Level : 83.40m AoD             |

|                 |                  |                   |                         |                       |
|-----------------|------------------|-------------------|-------------------------|-----------------------|
| Logged By<br>EG | Checked By<br>JC | Approved By<br>MP | SPT Energy Ratio<br>67% | Final Depth<br>13.30m |
|-----------------|------------------|-------------------|-------------------------|-----------------------|

| Install. /<br>Backfill                                                            | Water<br>Strikes | Sample and In Situ Testing |                    |                    | Depth<br>(m) | Level<br>(m) | Legend                                                                            | Stratum Description                                                                                                                                                                                                                                                            | Scale<br>S |  |  |
|-----------------------------------------------------------------------------------|------------------|----------------------------|--------------------|--------------------|--------------|--------------|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--|--|
|                                                                                   |                  | Depth (m)                  | Type               | Results            |              |              |                                                                                   |                                                                                                                                                                                                                                                                                |            |  |  |
|  |                  | 10.00                      | SPT(S)             | N=25 (3,4/4,6,6,9) | 13.30        | 70.10        |  | Firm, light brown, slightly gravelly CLAY possibly with occasional silt laminations. Gravel is subangular to subrounded of fine mixed natural lithologies. CGT                                                                                                                 | 10         |  |  |
|                                                                                   |                  | 11.00 – 11.45              | UT                 |                    |              |              |                                                                                   |                                                                                                                                                                                                                                                                                | 11         |  |  |
|                                                                                   |                  | 11.45 – 11.65              | UT                 |                    |              |              |                                                                                   |                                                                                                                                                                                                                                                                                | 12         |  |  |
|                                                                                   |                  |                            |                    |                    |              |              |                                                                                   | 11.45m - 11.50m : Becoming stiff and thinly laminated with occasional silty partings.<br>11.50m : A single subrounded cobble of sandstone (15cm).<br>11.50m - 12.45m : Becoming slightly sandy with cobble sized pockets of soft, brown, sandy CLAY. Gravel is fine to coarse. | 12         |  |  |
| 12.85                                                                             |                  | SPT(S)                     | N=16 (2,3/2,4,4,6) |                    |              |              | 13                                                                                |                                                                                                                                                                                                                                                                                |            |  |  |
| End of Borehole at 13.30m                                                         |                  |                            |                    |                    |              |              |                                                                                   | 14                                                                                                                                                                                                                                                                             |            |  |  |
|                                                                                   |                  |                            |                    |                    |              |              |                                                                                   | 15                                                                                                                                                                                                                                                                             |            |  |  |
|                                                                                   |                  |                            |                    |                    |              |              |                                                                                   | 16                                                                                                                                                                                                                                                                             |            |  |  |
|                                                                                   |                  |                            |                    |                    |              |              |                                                                                   | 17                                                                                                                                                                                                                                                                             |            |  |  |
|                                                                                   |                  |                            |                    |                    |              |              |                                                                                   | 18                                                                                                                                                                                                                                                                             |            |  |  |
|                                                                                   |                  |                            |                    |                    |              |              |                                                                                   | 19                                                                                                                                                                                                                                                                             |            |  |  |

| Hole Diameter |          | Casing Diameter |          | Chiselling              |                         |                         |      | Inclination and Orientation |      |             |             | Installation |      |           |          |
|---------------|----------|-----------------|----------|-------------------------|-------------------------|-------------------------|------|-----------------------------|------|-------------|-------------|--------------|------|-----------|----------|
| Depth Base    | Diameter | Depth Base      | Diameter | Depth Top               | Depth Base              | Duration                | Tool | Top                         | Base | Inclination | Orientation | Top          | Base | Pipe Type | Diameter |
| 13.30m        | 200mm    | 11.00m          | 200mm    | 4.45m<br>5.40m<br>9.50m | 4.60m<br>5.70m<br>9.80m | 01:00<br>01:00<br>01:00 |      |                             |      |             |             |              |      |           |          |

Remarks  
Logging has been undertaken to provide an approximate volumetric percentage of the various constituents present.

# Cable Percussive Borehole Log

BOREHOLE REFERENCE

**CP105**

Sheet 1 of 2

|                              |                                |                                |
|------------------------------|--------------------------------|--------------------------------|
| Project Name: Ten Acres Lane | Client: NUVU Developments Ltd  | Date: 05/10/2020 - 06/10/2020  |
| Location: Newton Heath       | Contractor: Geotron            | Co-ords: E387418.00 N400264.00 |
| Project No. : LD10385        | Drilling Equipment: Dando 2500 | Level : 80.36m AoD             |

|                 |                  |                   |                         |                       |
|-----------------|------------------|-------------------|-------------------------|-----------------------|
| Logged By<br>ZH | Checked By<br>JC | Approved By<br>MP | SPT Energy Ratio<br>67% | Final Depth<br>10.65m |
|-----------------|------------------|-------------------|-------------------------|-----------------------|

| Install. / Backfill                                                                | Water Strikes                                                                     | Sample and In Situ Testing         |                  |                    | Depth (m) | Level (m) | Legend | Stratum Description                                                                                                                                                                                                                                                                                                                                                                                                | Scale |
|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------|------------------|--------------------|-----------|-----------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|                                                                                    |                                                                                   | Depth (m)                          | Type             | Results            |           |           |        |                                                                                                                                                                                                                                                                                                                                                                                                                    |       |
|  |  | 0.05                               |                  |                    | 0.05      | 80.31     |        | Recovered as firm, dark brown, slightly sandy, slightly gravelly CLAY with abundant roots and rootlets. Gravel is subangular to subrounded of fine to coarse mixed lithologies.<br>TF                                                                                                                                                                                                                              | 1     |
|                                                                                    |                                                                                   | 0.50<br>0.50                       | ES               | 0.10ppmv           |           |           |        | Recovered as 60% loose, damp, gravelly, clayey SAND/ASH; 30% cobble sized red brick and sandstone fragments; 5% cobble sized glass and plastic fragments; and 5% cobble sized timber fragments. Gravel is angular to subrounded of fine to coarse red brick, glass, mudstone and suspected clinker.<br>CW                                                                                                          |       |
|                                                                                    |                                                                                   | 1.20                               | SPT(S)           | N=3 (1,1/1,1,1,0)  | 1.20      | 79.16     |        |                                                                                                                                                                                                                                                                                                                                                                                                                    | 2     |
|                                                                                    |                                                                                   | 1.50<br>1.50                       | ES               | 0.80ppmv           | 1.65      | 78.71     |        |                                                                                                                                                                                                                                                                                                                                                                                                                    |       |
|                                                                                    |                                                                                   | 1.65 – 2.00                        | B                |                    |           |           |        |                                                                                                                                                                                                                                                                                                                                                                                                                    | 3     |
|                                                                                    |                                                                                   | 2.00 – 3.00<br>2.00                | B<br>SPT(S)      | N=4 (1,1/1,1,1,1)  | 2.00      | 78.36     |        | Recovered as 60% cobble sized inclusions of firm to stiff, brown, slightly sandy, slightly gravelly CLAY; and 40% loose, angular to subrounded fine to coarse GRAVEL of red brick and mixed lithologies.<br>CMG                                                                                                                                                                                                    |       |
|                                                                                    |                                                                                   | 2.50<br>2.50                       | ES               | 0.20ppmv           |           |           |        | Recovered as 35% loose, dark brown and black stained, slightly gravelly, very clayey GRAVEL; 30% gravel to cobble sized inclusions of soft to firm, brown, slightly sandy, slightly gravelly CLAY; 20% cobble sized timber fragments; 10% cobble sized suspected slag fragments; and 5% cobble sized glass fragments. Gravel is subangular to subrounded of fine to coarse red brick, timber and chalk/lime.<br>DW | 4     |
|                                                                                    |                                                                                   | 3.00                               | SPT(S)           | N=6 (1,1/1,1,2,2)  | 3.15      | 77.21     |        | Recovered as 60% hard, friable, whitish grey possible CHALK; and 40% loose, white and black, slightly sandy, slightly clayey, subangular to subrounded, fine to coarse GRAVEL of mixed lithologies.<br>CMG                                                                                                                                                                                                         |       |
|                                                                                    |                                                                                   | 3.45 – 4.00                        | B                |                    |           |           |        | Soft to firm, brown, slightly sandy, slightly gravelly CLAY possibly with occasional silt lenses. Sand is fine. Gravel is angular to subrounded of fine to medium mudstone, red sandstone and red marl.<br>CGT                                                                                                                                                                                                     | 5     |
|                                                                                    |                                                                                   | 4.00 – 4.45<br>4.00 – 5.00         | UT<br>B          |                    |           |           |        |                                                                                                                                                                                                                                                                                                                                                                                                                    |       |
|                                                                                    |                                                                                   | 4.45 – 4.65<br>4.50<br>4.50        | UT<br>ES         | 0.10ppmv           |           |           |        |                                                                                                                                                                                                                                                                                                                                                                                                                    | 6     |
|                                                                                    |                                                                                   | 5.00 – 5.45<br>5.00 – 6.00<br>5.00 | D<br>B<br>SPT(S) | N=13 (2,2/3,3,3,4) |           |           |        |                                                                                                                                                                                                                                                                                                                                                                                                                    |       |
|                                                                                    |                                                                                   | 6.00 – 6.45<br>6.00 – 7.00         | UT<br>B          |                    |           |           |        |                                                                                                                                                                                                                                                                                                                                                                                                                    | 7     |
|                                                                                    |                                                                                   | 6.45 – 6.65                        | UT               |                    |           |           |        |                                                                                                                                                                                                                                                                                                                                                                                                                    |       |
|                                                                                    |                                                                                   | 7.00                               | SPT(S)           | N=14 (1,2/2,4,4,4) |           |           |        |                                                                                                                                                                                                                                                                                                                                                                                                                    | 8     |
|                                                                                    |                                                                                   | 7.45 – 7.90                        | D                |                    | 7.50      | 72.86     |        | Soft, grey, slightly sandy, silty CLAY.<br>CGT                                                                                                                                                                                                                                                                                                                                                                     |       |
|                                                                                    |                                                                                   | 8.00 – 8.45                        | UT               |                    |           |           |        |                                                                                                                                                                                                                                                                                                                                                                                                                    | 9     |
|                                                                                    |                                                                                   | 9.00                               | SPT(S)           | N=18 (2,2/3,4,5,6) |           |           |        |                                                                                                                                                                                                                                                                                                                                                                                                                    |       |
|                                                                                    |                                                                                   |                                    |                  |                    | 9.30      | 71.06     |        | Firm to stiff, brown, slightly sandy, slightly gravelly CLAY possibly with thin laminations of SILT. Gravel is angular to rounded of fine to medium mudstone, red sandstone, crystalline rocks, limestone and gritstone.<br>CGT                                                                                                                                                                                    |       |

| Hole Diameter |          | Casing Diameter |          | Chiselling |            |          |      | Inclination and Orientation |      |             |             | Installation |      |           |          |
|---------------|----------|-----------------|----------|------------|------------|----------|------|-----------------------------|------|-------------|-------------|--------------|------|-----------|----------|
| Depth Base    | Diameter | Depth Base      | Diameter | Depth Top  | Depth Base | Duration | Tool | Top                         | Base | Inclination | Orientation | Top          | Base | Pipe Type | Diameter |
| 10.65m        | 200mm    | 5.85m           | 200mm    | 3.80m      | 4.00m      | 01:00    |      |                             |      |             |             |              |      |           |          |

**Remarks**

Dimensions given in length x width. Logging has been undertaken to provide an approximate volumetric percentage of the various constituents present.

Log printed on 13/09/2022 at 13:09

# Cable Percussive Borehole Log

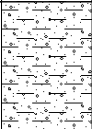
BOREHOLE REFERENCE

**CP105**

Sheet 2 of 2

|                              |                                |                                |
|------------------------------|--------------------------------|--------------------------------|
| Project Name: Ten Acres Lane | Client: NUVU Developments Ltd  | Date: 05/10/2020 - 06/10/2020  |
| Location: Newton Heath       | Contractor: Geotron            | Co-ords: E387418.00 N400264.00 |
| Project No. : LD10385        | Drilling Equipment: Dando 2500 | Level : 80.36m AoD             |

|                 |                  |                   |                         |                       |
|-----------------|------------------|-------------------|-------------------------|-----------------------|
| Logged By<br>ZH | Checked By<br>JC | Approved By<br>MP | SPT Energy Ratio<br>67% | Final Depth<br>10.65m |
|-----------------|------------------|-------------------|-------------------------|-----------------------|

| Instal. /<br>Backfill                                                             | Water<br>Strikes | Sample and In Situ Testing |      |         | Depth<br>(m) | Level<br>(m) | Legend                                                                            | Stratum Description                                                                                                                                                                                                          | Scale |
|-----------------------------------------------------------------------------------|------------------|----------------------------|------|---------|--------------|--------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|                                                                                   |                  | Depth (m)                  | Type | Results |              |              |                                                                                   |                                                                                                                                                                                                                              |       |
|  |                  | 10.00 – 10.45              | UT   |         | 10.65        | 69.71        |  | Firm to stiff, brown, slightly sandy, slightly gravelly CLAY possibly with thin laminations of SILT. Gravel is angular to rounded of fine to medium mudstone, red sandstone, crystalline rocks, limestone and gritstone. CGT | 10    |
|                                                                                   |                  | 10.45 – 10.65              | UT   |         |              |              |                                                                                   | End of Borehole at 10.65m                                                                                                                                                                                                    | 11    |
|                                                                                   |                  |                            |      |         |              |              |                                                                                   |                                                                                                                                                                                                                              | 12    |
|                                                                                   |                  |                            |      |         |              |              |                                                                                   |                                                                                                                                                                                                                              | 13    |
|                                                                                   |                  |                            |      |         |              |              |                                                                                   |                                                                                                                                                                                                                              | 14    |
|                                                                                   |                  |                            |      |         |              |              |                                                                                   |                                                                                                                                                                                                                              | 15    |
|                                                                                   |                  |                            |      |         |              |              |                                                                                   |                                                                                                                                                                                                                              | 16    |
|                                                                                   |                  |                            |      |         |              |              |                                                                                   |                                                                                                                                                                                                                              | 17    |
|                                                                                   |                  |                            |      |         |              |              |                                                                                   |                                                                                                                                                                                                                              | 18    |
|                                                                                   |                  |                            |      |         |              |              |                                                                                   |                                                                                                                                                                                                                              | 19    |

| Hole Diameter |          | Casing Diameter |          | Chiselling |            |          |      | Inclination and Orientation |      |             |             | Installation |      |           |          |
|---------------|----------|-----------------|----------|------------|------------|----------|------|-----------------------------|------|-------------|-------------|--------------|------|-----------|----------|
| Depth Base    | Diameter | Depth Base      | Diameter | Depth Top  | Depth Base | Duration | Tool | Top                         | Base | Inclination | Orientation | Top          | Base | Pipe Type | Diameter |
| 10.65m        | 200mm    | 5.85m           | 200mm    | 3.80m      | 4.00m      | 01:00    |      |                             |      |             |             |              |      |           |          |

**Remarks**  
 Dimensions given in length x width. Logging has been undertaken to provide an approximate volumetric percentage of the various constituents present.

# Cable Percussive Borehole Log

BOREHOLE REFERENCE  
**CP106**  
Sheet 1 of 2

|                              |                                |                                |
|------------------------------|--------------------------------|--------------------------------|
| Project Name: Ten Acres Lane | Client: NUVU Developments Ltd  | Date: 06/10/2020 - 07/10/2020  |
| Location: Newton Heath       | Contractor: Geotron            | Co-ords: E387366.52 N400246.25 |
| Project No. : LD10385        | Drilling Equipment: Dando 2500 | Level : 78.79m AoD             |

|                 |                  |                   |                         |                       |
|-----------------|------------------|-------------------|-------------------------|-----------------------|
| Logged By<br>ZH | Checked By<br>JC | Approved By<br>MP | SPT Energy Ratio<br>67% | Final Depth<br>11.50m |
|-----------------|------------------|-------------------|-------------------------|-----------------------|

| Instal. /<br>Backfill | Water<br>Strikes | Sample and In Situ Testing |        |                    | Depth<br>(m) | Level<br>(m) | Legend | Stratum Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Scale |
|-----------------------|------------------|----------------------------|--------|--------------------|--------------|--------------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|                       |                  | Depth (m)                  | Type   | Results            |              |              |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |
|                       |                  | 0.20                       |        |                    | 0.20         | 78.59        |        | Recovered as very soft, black, silty CLAY with frequent roots and rootlets.<br>TF                                                                                                                                                                                                                                                                                                                                                                                                                        |       |
|                       |                  | 0.50                       | ES     |                    |              |              |        | Recovered as 80% very soft, white and black, slightly sandy, very gravelly CLAY; and 20% cobble sized suspected slag and clinker fragments. Gravel is subangular to subrounded of fine to coarse suspected slag and clinker, chalk and mixed lithologies. Slight sweet odour.<br>CMG                                                                                                                                                                                                                     | 1     |
|                       |                  | 1.20                       | SPT(S) | N=7 (1,1/1,1,1,4)  | 1.40         | 77.39        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |
|                       |                  | 1.65 – 2.00                | B      |                    |              |              |        | Recovered as 70% very loose, black, subangular to subrounded GRAVEL of suspected clinker (95%) and chalk (5%); 10% cobbles sized fragments of suspected clinker and slag; 10% cobble sized inclusions of very soft, white, slightly gravelly CLAY; 5% cobble sized inclusions of very soft, light orangish brown, slightly sandy, gravelly CLAY; 2.5% cobble sized timber fragments; and 2.5% cobble sized plastic fragments. Gravel is subangular to angular of fine to medium clinker and chalk.<br>CW | 2     |
|                       |                  | 1.80                       | ES     |                    |              |              |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |
|                       |                  | 2.00 – 3.00                | B      |                    |              |              |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |
|                       |                  | 2.00                       | SPT(S) | N=3 (1,1/1,1,1,0)  |              |              |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |
|                       |                  | 3.00 – 4.00                | B      |                    | 3.00         | 75.79        |        | Recovered as 70% soft, light brown, stained black, slightly sandy, gravelly CLAY; and 30% timber planks and fragments. Gravel is subangular to subrounded of fine to coarse timber fragments, suspected clinker and plastic. Hydrocarbon odour.<br>CMG                                                                                                                                                                                                                                                   | 3     |
|                       |                  | 3.00                       | SPT(S) | N=4 (1,1/1,1,1,1)  |              |              |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |
|                       |                  | 3.50                       | ES     |                    |              |              |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |
|                       |                  | 4.00                       | SPT(S) | N=5 (1,2/1,1,1,2)  | 4.00         | 74.79        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 4     |
|                       |                  |                            |        |                    |              |              |        | Recovered as 40% loose, wet, brown, clayey GRAVEL; 30% cobble sized timber fragments, 10% cobbles sized suspected clinker and slag fragments; 10% fabrics; and 10% cobble sized plastic fragments. Gravel is subangular to subrounded of fine to coarse mixed lithologies. Hydrocarbon odour.<br>DW                                                                                                                                                                                                      |       |
|                       |                  | 5.00 – 6.00                | B      |                    | 4.65         | 74.14        |        | Soft, grey, slightly sandy, silty CLAY.<br>CGT                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 5     |
|                       |                  | 5.00                       | SPT(S) | N=10 (1,1/1,1,2,6) |              |              |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |
|                       |                  | 6.00 – 6.45                | UT     |                    | 5.65         | 73.14        |        | Soft to firm, slightly sandy, slightly gravelly CLAY. Sand is fine. Gravel is angular to subrounded of fine to medium black mudstone, quartz, shale, red coarse grained sandstone and crystalline rocks.<br>CGT                                                                                                                                                                                                                                                                                          | 6     |
|                       |                  | 6.00 – 7.00                | B      |                    |              |              |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |
|                       |                  | 7.00                       | SPT(S) | N=15 (2,2/3,3,4,5) |              |              |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 7     |
|                       |                  | 8.00 – 8.45                | UT     |                    |              |              |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |
|                       |                  | 8.00 – 9.00                | B      |                    |              |              |        | 8.00m : Becomes stiff.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 8     |
|                       |                  | 8.45 – 8.65                | UT     |                    |              |              |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |
|                       |                  | 9.00                       | SPT(C) | N=28 (2,3/5,6,8,9) |              |              |        | 9.00m - 10.00m : Silty.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 9     |

| Hole Diameter |          | Casing Diameter |          | Chiselling |            |          |      | Inclination and Orientation |      |             |             | Installation |      |           |          |
|---------------|----------|-----------------|----------|------------|------------|----------|------|-----------------------------|------|-------------|-------------|--------------|------|-----------|----------|
| Depth Base    | Diameter | Depth Base      | Diameter | Depth Top  | Depth Base | Duration | Tool | Top                         | Base | Inclination | Orientation | Top          | Base | Pipe Type | Diameter |
| 11.50m        | 200mm    | 5.40m           | 200mm    | 3.80m      | 4.00m      | 01:00    |      |                             |      |             |             |              |      |           |          |

Remarks  
Dimensions given in length x width. Logging has been undertaken to provide an approximate volumetric percentage of the various constituents present.

# Cable Percussive Borehole Log

BOREHOLE REFERENCE

**CP106**

Sheet 2 of 2

|                              |                                |                                |
|------------------------------|--------------------------------|--------------------------------|
| Project Name: Ten Acres Lane | Client: NUVU Developments Ltd  | Date: 06/10/2020 - 07/10/2020  |
| Location: Newton Heath       | Contractor: Geotron            | Co-ords: E387366.52 N400246.25 |
| Project No. : LD10385        | Drilling Equipment: Dando 2500 | Level : 78.79m AoD             |

|                 |                  |                   |                         |                       |
|-----------------|------------------|-------------------|-------------------------|-----------------------|
| Logged By<br>ZH | Checked By<br>JC | Approved By<br>MP | SPT Energy Ratio<br>67% | Final Depth<br>11.50m |
|-----------------|------------------|-------------------|-------------------------|-----------------------|

| Instal. /<br>Backfill | Water<br>Strikes | Sample and In Situ Testing |        |                      | Depth<br>(m) | Level<br>(m) | Legend | Stratum Description                                                                                                                                                                                                                             | Scale |
|-----------------------|------------------|----------------------------|--------|----------------------|--------------|--------------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|                       |                  | Depth (m)                  | Type   | Results              |              |              |        |                                                                                                                                                                                                                                                 |       |
|                       |                  | 10.00 – 10.45              | UT     |                      |              |              |        | Soft to firm, slightly sandy, slightly gravelly CLAY. Sand is fine. Gravel is angular to subrounded of fine to medium black mudstone, quartz, shale, red coarse grained sandstone and crystalline rocks.<br>CGT<br>10.45m : Becomes very stiff. | 10    |
|                       |                  | 10.45 – 10.65              | UT     |                      |              |              |        |                                                                                                                                                                                                                                                 |       |
|                       |                  | 11.00                      | SPT(S) | N=35 (3,5/6,8,10,11) |              |              |        |                                                                                                                                                                                                                                                 | 11    |
|                       |                  |                            |        |                      | 11.50        | 67.29        |        | End of Borehole at 11.50m                                                                                                                                                                                                                       | 12    |
|                       |                  |                            |        |                      |              |              |        |                                                                                                                                                                                                                                                 | 13    |
|                       |                  |                            |        |                      |              |              |        |                                                                                                                                                                                                                                                 | 14    |
|                       |                  |                            |        |                      |              |              |        |                                                                                                                                                                                                                                                 | 15    |
|                       |                  |                            |        |                      |              |              |        |                                                                                                                                                                                                                                                 | 16    |
|                       |                  |                            |        |                      |              |              |        |                                                                                                                                                                                                                                                 | 17    |
|                       |                  |                            |        |                      |              |              |        |                                                                                                                                                                                                                                                 | 18    |
|                       |                  |                            |        |                      |              |              |        |                                                                                                                                                                                                                                                 | 19    |

| Hole Diameter |          | Casing Diameter |          | Chiselling |            |          |      | Inclination and Orientation |      |             |             | Installation |      |           |          |
|---------------|----------|-----------------|----------|------------|------------|----------|------|-----------------------------|------|-------------|-------------|--------------|------|-----------|----------|
| Depth Base    | Diameter | Depth Base      | Diameter | Depth Top  | Depth Base | Duration | Tool | Top                         | Base | Inclination | Orientation | Top          | Base | Pipe Type | Diameter |
| 11.50m        | 200mm    | 5.40m           | 200mm    | 3.80m      | 4.00m      | 01:00    |      |                             |      |             |             |              |      |           |          |

**Remarks**  
Dimensions given in length x width. Logging has been undertaken to provide an approximate volumetric percentage of the various constituents present.

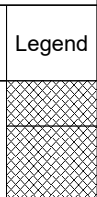
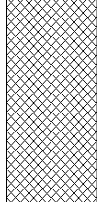
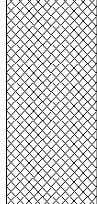
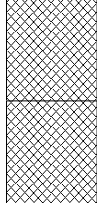
Log printed on 13/09/2022 at 13:09

# Cable Percussive Borehole Log

BOREHOLE REFERENCE  
**CP107**  
Sheet 1 of 2

|                              |                                |                                |
|------------------------------|--------------------------------|--------------------------------|
| Project Name: Ten Acres Lane | Client: NUVU Developments Ltd  | Date: 12/10/2020 - 13/10/2020  |
| Location: Newton Heath       | Contractor: Geotron            | Co-ords: E387529.06 N400306.76 |
| Project No. : LD10385        | Drilling Equipment: Dando 2500 | Level : 83.70m AoD             |

|                 |                  |                   |                         |                       |
|-----------------|------------------|-------------------|-------------------------|-----------------------|
| Logged By<br>EG | Checked By<br>JC | Approved By<br>MP | SPT Energy Ratio<br>67% | Final Depth<br>12.45m |
|-----------------|------------------|-------------------|-------------------------|-----------------------|

| Instal. / Backfill                                                                 | Water Strikes                                                                     | Sample and In Situ Testing |             |                       | Depth (m) | Level (m) | Legend                                                                             | Stratum Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Scale |
|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------|-------------|-----------------------|-----------|-----------|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|                                                                                    |                                                                                   | Depth (m)                  | Type        | Results               |           |           |                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       |
|  |  | 0.00 – 1.00<br>0.00 – 1.00 | B<br>B      |                       | 0.30      | 83.40     |   | Firm, dark brown, slightly sandy, slightly gravelly CLAY with frequent roots and rootlets. Gravel is angular to well rounded of fine to coarse red brick (60%), concrete (20%), ceramic (5%), quartz (5%), and suspected clinker (5%). Sand is fine to medium. TF                                                                                                                                                                                                                                                                      | 1     |
|                                                                                    |                                                                                   | 0.50                       | ES          |                       |           |           |                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       |
|                                                                                    |                                                                                   | 1.00                       | SPT(S)      | N=1 (1,1/0,0,0,1)     |           |           |                                                                                    | Recovered as 45% loose, dark brown, very sandy, very clayey GRAVEL; 15% whole and half bricks; 10% cobble sized inclusions of soft, organic, grey and brown mottled, sandy CLAY; 10% carpet; 10% cobble sized plastic fragments; 5% tinfoil; and 5% cobble sized tarmacadam fragments. Gravel is subangular of fine to coarse brick (50%), concrete (15%), wood chips (15%), suspected clinker (7.5%), glass (7.5%), slate (2.5%), quartz (2.5%), suspected slag (2.5%) and sandstone (2.5%). Organic odour. HW<br>2.00m : Rare carpet |       |
|                                                                                    |                                                                                   | 2.00 – 3.00<br>2.00        | B<br>SPT(S) | N=3 (2,2/2,0,0,1)     | 4.10      | 79.60     |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 2     |
|                                                                                    |                                                                                   | 3.00<br>3.00               | ES<br>D     |                       |           |           |                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       |
|                                                                                    |                                                                                   | 3.00 – 3.45<br>3.00        | SPT(S)      | N=9 (2,1/2,2,3,2)     |           |           |                                                                                    | 3.20m - 3.30m : Black, slight gravelly, silty CLAY. Gravel is subangular to angular of coal and brick.<br>3.30m - 4.10m : Occasional subangular cobbles of concrete and brick, fine gravel to cobble sized timber fragments, plastic sheeting. Rare metal fragments, hardboard, and carpet fragments.                                                                                                                                                                                                                                  |       |
|                                                                                    |                                                                                   | 4.00                       | SPT(S)      | N=12 (4,3/6,2,2,2)    | 5.00      | 78.70     |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 3     |
|                                                                                    |                                                                                   | 4.50<br>4.50               | ES          |                       |           |           |                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       |
|                                                                                    |                                                                                   | 5.00 – 5.45<br>5.00        | D<br>SPT(S) | N=17 (2,1/6,6,2,3)    |           |           |                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       |
|                                                                                    |                                                                                   | 6.50                       | SPT(S)      | N=17 (7,14/7,4,3,3)   | 9.30      | 74.40     |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 4     |
|                                                                                    |                                                                                   | 8.00                       | SPT(S)      | N=50 (13,7/20,30,0,0) |           |           |                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       |
|                                                                                    |                                                                                   | 9.30                       | SPT(S)      | N=13 (3,3/3,3,3,4)    |           |           |                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       |

| Hole Diameter |          | Casing Diameter |          | Chiselling |            |          |      | Inclination and Orientation |      |             |             | Installation   |                |                  |          |
|---------------|----------|-----------------|----------|------------|------------|----------|------|-----------------------------|------|-------------|-------------|----------------|----------------|------------------|----------|
| Depth Base    | Diameter | Depth Base      | Diameter | Depth Top  | Depth Base | Duration | Tool | Top                         | Base | Inclination | Orientation | Top            | Base           | Pipe Type        | Diameter |
| 12.45m        | 200mm    | 9.00m           | 200mm    |            |            |          |      |                             |      |             |             | 0.00m<br>5.00m | 5.00m<br>9.00m | PLAIN<br>SLOTTED |          |

Remarks  
Logging has been undertaken to provide an approximate volumetric percentage of the various constituents present.

# Cable Percussive Borehole Log

BOREHOLE REFERENCE

**CP107**

Sheet 2 of 2

|                              |                                |                                |
|------------------------------|--------------------------------|--------------------------------|
| Project Name: Ten Acres Lane | Client: NUVU Developments Ltd  | Date: 12/10/2020 - 13/10/2020  |
| Location: Newton Heath       | Contractor: Geotron            | Co-ords: E387529.06 N400306.76 |
| Project No. : LD10385        | Drilling Equipment: Dando 2500 | Level : 83.70m AoD             |

|                 |                  |                   |                         |                       |
|-----------------|------------------|-------------------|-------------------------|-----------------------|
| Logged By<br>EG | Checked By<br>JC | Approved By<br>MP | SPT Energy Ratio<br>67% | Final Depth<br>12.45m |
|-----------------|------------------|-------------------|-------------------------|-----------------------|

| Instal. /<br>Back fill | Water<br>Strikes | Sample and In Situ Testing |        |                      | Depth<br>(m) | Level<br>(m) | Legend | Stratum Description                                                                                                                                                                     | Scale |
|------------------------|------------------|----------------------------|--------|----------------------|--------------|--------------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|                        |                  | Depth (m)                  | Type   | Results              |              |              |        |                                                                                                                                                                                         |       |
|                        |                  | 11.00 – 11.45              | UT     |                      |              |              |        | Firm, laminated, light brown, slightly gravelly CLAY with occasional rootlets. Gravel is subangular of fine siltstone. Lamination are thin, closely spaced and of firm, brown silt. CGT | 10    |
|                        |                  |                            |        |                      |              |              |        | 11.00m - 12.45m : Becoming stiff and gravel is subangular to wellrounded of fine to medium mixed natural lithologies.                                                                   | 11    |
|                        |                  | 12.00                      | SPT(S) | N=28 (2,4/4,4,10,10) |              |              |        |                                                                                                                                                                                         | 12    |
|                        |                  |                            |        |                      | 12.45        | 71.25        |        | End of Borehole at 12.45m                                                                                                                                                               | 13    |
|                        |                  |                            |        |                      |              |              |        |                                                                                                                                                                                         | 14    |
|                        |                  |                            |        |                      |              |              |        |                                                                                                                                                                                         | 15    |
|                        |                  |                            |        |                      |              |              |        |                                                                                                                                                                                         | 16    |
|                        |                  |                            |        |                      |              |              |        |                                                                                                                                                                                         | 17    |
|                        |                  |                            |        |                      |              |              |        |                                                                                                                                                                                         | 18    |
|                        |                  |                            |        |                      |              |              |        |                                                                                                                                                                                         | 19    |

| Hole Diameter |          | Casing Diameter |          | Chiselling |            |          |      | Inclination and Orientation |      |             |             | Installation   |                |                  |          |
|---------------|----------|-----------------|----------|------------|------------|----------|------|-----------------------------|------|-------------|-------------|----------------|----------------|------------------|----------|
| Depth Base    | Diameter | Depth Base      | Diameter | Depth Top  | Depth Base | Duration | Tool | Top                         | Base | Inclination | Orientation | Top            | Base           | Pipe Type        | Diameter |
| 12.45m        | 200mm    | 9.00m           | 200mm    |            |            |          |      |                             |      |             |             | 0.00m<br>5.00m | 5.00m<br>9.00m | PLAIN<br>SLOTTED |          |

Remarks

Logging has been undertaken to provide an approximate volumetric percentage of the various constituents present.

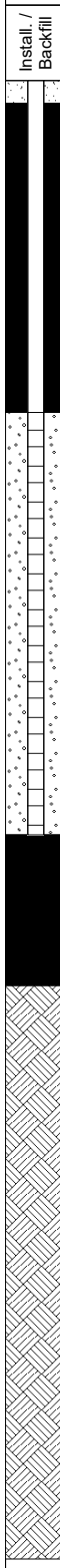
Log printed on 13/09/2022 at 13:09

# Cable Percussive Borehole Log

BOREHOLE REFERENCE  
**CP108**  
Sheet 1 of 3

|                              |                                |                                |
|------------------------------|--------------------------------|--------------------------------|
| Project Name: Ten Acres Lane | Client: NUVU Developments Ltd  | Date: 05/10/2020 - 07/10/2020  |
| Location: Newton Heath       | Contractor: Geotron            | Co-ords: E387309.99 N400245.27 |
| Project No. : LD10385        | Drilling Equipment: Dando 2500 | Level : 77.93m AoD             |

|                 |                  |                   |                         |                       |
|-----------------|------------------|-------------------|-------------------------|-----------------------|
| Logged By<br>ZH | Checked By<br>JC | Approved By<br>MP | SPT Energy Ratio<br>67% | Final Depth<br>20.40m |
|-----------------|------------------|-------------------|-------------------------|-----------------------|

| Install. / Backfill                                                                | Water Strikes                                                                      | Sample and In Situ Testing |        |                      | Depth (m) | Level (m) | Legend | Stratum Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Scale |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|----------------------------|--------|----------------------|-----------|-----------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|                                                                                    |                                                                                    | Depth (m)                  | Type   | Results              |           |           |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       |
|  |  | 0.10                       |        |                      | 0.10      | 77.83     |        | Recovered as very loose, soft, brown, slightly gravelly, sandy CLAY with frequent rootlets. Gravel is subangular to rounded of fine to coarse mixed lithologies.<br>TF                                                                                                                                                                                                                                                                                                                                                                                                                    | 1     |
|                                                                                    |                                                                                    | 0.50                       | ES     | 0.10ppmv             |           |           |        | Recovered as 70% wet, black, sandy, slightly clayey GRAVEL; 10% cobble sized inclusions of soft, light brown, slightly gravelly CLAY; 10% cobbles sized suspected clinker and slag fragments; 5% whole and half red brick; and 5% rootlets. Gravel is angular to subrounded of fine to coarse suspected clinker and slag.<br>CW                                                                                                                                                                                                                                                           |       |
|                                                                                    |                                                                                    | 1.20                       | SPT(S) | N=3 (1,1/0,1,1,1)    |           |           |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       |
|                                                                                    |                                                                                    | 1.50                       | ES     | 0.50ppmv             |           |           |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       |
|                                                                                    |                                                                                    | 2.20                       | SPT(S) | N=1 (2,1/0,1,0,0)    | 2.20      | 75.73     |        | Recovered as 40% loose, wet, dark brown, sandy, slightly clayey GRAVEL; 30% cobble sized fragments of red brick; 10% cobble sized inclusions of soft, light brown, slightly gravelly CLAY; 10% cobbles sized slate, red brick, suspected clinker and sandstone fragments; 2.5% cobble sized glass fragments; 2.5% cobble sized timber fragments; 2.5% cobble sized metal fragments; and 2.5% cobble sized ceramic fragments. Gravel is subrounded to angular of fine to medium red brick, glass, coal, suspected clinker, mudstone and mixed lithologies. Slight hydrocarbon odour.<br>CW | 2     |
|                                                                                    |                                                                                    | 2.40                       | ES     | 0.30ppmv             |           |           |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       |
|                                                                                    |                                                                                    | 3.20                       | SPT(S) | N=4 (2,1/0,1,1,2)    |           |           |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       |
|                                                                                    |                                                                                    | 4.20                       | SPT(S) | N=4 (1,1/0,2,1,1)    | 4.20      | 73.73     |        | Recovered as 50% loose, wet, dark greyish brown, sandy GRAVEL; 30% very soft, wet, brown, very clayey GRAVEL; and 20% cobbles sized concrete paving fragments. Gravel is subrounded to angular of fine to coarse concrete (20%), red brick (15%), glass (10%), suspected clinker (5%), coal (5%), plastic (5%) and mixed lithologies (45%). Slight hydrocarbon odour.<br>GMG                                                                                                                                                                                                              | 3     |
|                                                                                    |                                                                                    | 5.00                       | ES     |                      | 5.00      | 72.93     |        | Firm, brown, slightly gravelly CLAY. Gravel is subrounded to subangular of fine to medium mudstone, shale and crystalline rocks.<br>CGT                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 4     |
|                                                                                    |                                                                                    | 5.00 - 5.45                | SPT(S) | N=27 (2,4/5,5,6,11)  |           |           |        | 5.40m - 5.45m : Recovered as soft, light brown, very sandy CLAY. Sand is medium.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 5     |
|                                                                                    |                                                                                    | 5.00                       |        | 0.10ppmv             |           |           |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       |
|                                                                                    |                                                                                    | 5.10                       |        |                      |           |           |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       |
|                                                                                    |                                                                                    | 6.00 - 6.45                | UT     |                      |           |           |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       |
|                                                                                    |                                                                                    | 6.00 - 6.45                | UT     |                      |           |           |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       |
|                                                                                    |                                                                                    | 6.45 - 6.90                | D      |                      |           |           |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       |
|                                                                                    |                                                                                    | 7.00                       | SPT(S) | N=21 (5,4/4,5,6,6)   | 7.20      | 70.73     |        | Stiff, wet, brown, slightly sandy, slightly gravelly to gravelly in places CLAY. Gravel is angular to rounded of fine to coarse sandstone, gritstone and mudstone.<br>CGT                                                                                                                                                                                                                                                                                                                                                                                                                 | 6     |
|                                                                                    |                                                                                    | 8.00 - 8.45                | UT     |                      |           |           |        | 8.00m - 9.00m : Occasional cobbles of rounded to subrounded sandstone.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 7     |
|                                                                                    |                                                                                    | 8.00 - 8.45                | UT     |                      |           |           |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       |
|                                                                                    |                                                                                    | 9.00 - 9.45                | D      |                      |           |           |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       |
|                                                                                    |                                                                                    | 9.00                       | SPT(S) | N=39 (6,8/8,9,10,12) |           |           |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 9     |

| Hole Diameter |          | Casing Diameter |          | Chiselling       |                  |                |      | Inclination and Orientation |      |             |             | Installation   |                |                  |          |
|---------------|----------|-----------------|----------|------------------|------------------|----------------|------|-----------------------------|------|-------------|-------------|----------------|----------------|------------------|----------|
| Depth Base    | Diameter | Depth Base      | Diameter | Depth Top        | Depth Base       | Duration       | Tool | Top                         | Base | Inclination | Orientation | Top            | Base           | Pipe Type        | Diameter |
| 20.40m        | 200mm    | 18.00m          | 200mm    | 13.00m<br>14.00m | 14.00m<br>18.00m | 00:45<br>05:00 |      |                             |      |             |             | 0.00m<br>2.20m | 2.20m<br>5.00m | PLAIN<br>SLOTTED | 63mm     |

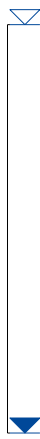
Remarks  
Logging has been undertaken to provide an approximate volumetric percentage of the various constituents present.

# Cable Percussive Borehole Log

BOREHOLE REFERENCE  
**CP108**  
Sheet 2 of 3

|                              |                                |                                |
|------------------------------|--------------------------------|--------------------------------|
| Project Name: Ten Acres Lane | Client: NUVU Developments Ltd  | Date: 05/10/2020 - 07/10/2020  |
| Location: Newton Heath       | Contractor: Geotron            | Co-ords: E387309.99 N400245.27 |
| Project No. : LD10385        | Drilling Equipment: Dando 2500 | Level : 77.93m AoD             |

|                 |                  |                   |                         |                       |
|-----------------|------------------|-------------------|-------------------------|-----------------------|
| Logged By<br>ZH | Checked By<br>JC | Approved By<br>MP | SPT Energy Ratio<br>67% | Final Depth<br>20.40m |
|-----------------|------------------|-------------------|-------------------------|-----------------------|

| Install. / Backfill                                                                | Water Strikes                                                                     | Sample and In Situ Testing     |          |                       | Depth (m) | Level (m) | Legend | Stratum Description                                                                                                                                                                                                                                                                                                                                                                                    | Scale |
|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------------------------|----------|-----------------------|-----------|-----------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|                                                                                    |                                                                                   | Depth (m)                      | Type     | Results               |           |           |        |                                                                                                                                                                                                                                                                                                                                                                                                        |       |
|  |  | 10.00 – 10.45<br>10.00 – 10.45 | UT<br>UT |                       |           |           |        | Stiff, wet, brown, slightly sandy, slightly gravelly to gravelly in places CLAY. Gravel is angular to rounded of fine to coarse sandstone, gritstone and mudstone.<br>CGT<br>10.00m : Becomes very stiff.                                                                                                                                                                                              | 10    |
|                                                                                    |                                                                                   |                                |          |                       |           |           |        |                                                                                                                                                                                                                                                                                                                                                                                                        | 11    |
|                                                                                    |                                                                                   | 11.50                          | SPT(S)   | N=16 (1,2/3,3,4,6)    |           |           |        | 11.50m - 12.70m : Occasional laminations of SILT.                                                                                                                                                                                                                                                                                                                                                      | 12    |
|                                                                                    |                                                                                   |                                |          |                       | 12.70     | 65.23     |        |                                                                                                                                                                                                                                                                                                                                                                                                        |       |
|                                                                                    |                                                                                   | 13.00                          | SPT(S)   | N=20 (3,3/4,4,6,6)    | 13.00     | 64.93     |        | Stiff, brown, slightly sandy, silty CLAY.<br>CGT<br>Stiff, wet, brown, slightly sandy, gravelly CLAY with possible medium cobble content. Cobbles are angular to subrounded of crystalline rocks and sandstone. Gravel is subangular of fine mixed natural lithologies.<br>CGT                                                                                                                         | 13    |
|                                                                                    |                                                                                   |                                |          |                       | 14.00     | 63.93     |        |                                                                                                                                                                                                                                                                                                                                                                                                        | 14    |
|                                                                                    |                                                                                   | 14.50 – 14.95<br>14.50 – 14.95 | UT<br>UT |                       | 14.50     | 63.43     |        | Very soft, wet, brown, slightly gravelly, silty CLAY. Gravel is subangular to subrounded of fine to medium mixed natural lithologies.<br>CGT<br>Stiff, brown, slightly sandy, slightly gravelly CLAY. Gravel is angular to rounded of fine to coarse mixed natural lithologies.<br>CGT                                                                                                                 | 15    |
|                                                                                    |                                                                                   |                                |          |                       |           |           |        |                                                                                                                                                                                                                                                                                                                                                                                                        |       |
|                                                                                    |                                                                                   | 16.00                          | SPT(S)   | N=9 (1,0/1,0,3,5)     | 16.00     | 61.93     |        | Firm, brown, very sandy CLAY.<br>CGT                                                                                                                                                                                                                                                                                                                                                                   | 16    |
|                                                                                    |                                                                                   |                                |          |                       | 16.40     | 61.53     |        |                                                                                                                                                                                                                                                                                                                                                                                                        |       |
|                                                                                    |                                                                                   | 17.00                          | SPT(S)   | N=41 (5,7/7,10,12,12) | 17.00     | 60.93     |        | Stiff, soft where wet, brown, slightly sandy, slightly gravelly CLAY. Gravel is angular to rounded of fine to coarse red sandstone, grey sandstone, quartz and mudstone.<br>CGT<br>16.40m - 17.00m : Occasional cobbles of sandstone.<br>Soft, very wet, brown, slightly sandy, slightly gravelly CLAY. Sand is fine. Gravel is angular to rounded of fine to coarse mixed natural lithologies.<br>CGT | 17    |
|                                                                                    |                                                                                   |                                |          |                       |           |           |        |                                                                                                                                                                                                                                                                                                                                                                                                        |       |
|                                                                                    |                                                                                   | 18.00 – 18.45<br>18.00 – 18.45 | UT<br>UT |                       |           |           |        |                                                                                                                                                                                                                                                                                                                                                                                                        | 18    |
|                                                                                    |                                                                                   |                                |          |                       |           |           |        |                                                                                                                                                                                                                                                                                                                                                                                                        |       |
|                                                                                    |                                                                                   | 19.00 – 20.00                  | B        |                       |           |           |        |                                                                                                                                                                                                                                                                                                                                                                                                        | 19    |

| Hole Diameter |          | Casing Diameter |          | Chiselling       |                  |                |      | Inclination and Orientation |      |             |             | Installation   |                |                  |              |
|---------------|----------|-----------------|----------|------------------|------------------|----------------|------|-----------------------------|------|-------------|-------------|----------------|----------------|------------------|--------------|
| Depth Base    | Diameter | Depth Base      | Diameter | Depth Top        | Depth Base       | Duration       | Tool | Top                         | Base | Inclination | Orientation | Top            | Base           | Pipe Type        | Diameter     |
| 20.40m        | 200mm    | 18.00m          | 200mm    | 13.00m<br>14.00m | 14.00m<br>18.00m | 00:45<br>05:00 |      |                             |      |             |             | 0.00m<br>2.20m | 2.20m<br>5.00m | PLAIN<br>SLOTTED | 63mm<br>63mm |

Remarks  
Logging has been undertaken to provide an approximate volumetric percentage of the various constituents present.

# Cable Percussive Borehole Log

BOREHOLE REFERENCE

**CP108**

Sheet 3 of 3

|                              |                                |                                |
|------------------------------|--------------------------------|--------------------------------|
| Project Name: Ten Acres Lane | Client: NUVU Developments Ltd  | Date: 05/10/2020 - 07/10/2020  |
| Location: Newton Heath       | Contractor: Geotron            | Co-ords: E387309.99 N400245.27 |
| Project No. : LD10385        | Drilling Equipment: Dando 2500 | Level : 77.93m AoD             |

|                 |                  |                   |                         |                       |
|-----------------|------------------|-------------------|-------------------------|-----------------------|
| Logged By<br>ZH | Checked By<br>JC | Approved By<br>MP | SPT Energy Ratio<br>67% | Final Depth<br>20.40m |
|-----------------|------------------|-------------------|-------------------------|-----------------------|

| Instal. /<br>Back fill | Water<br>Strikes | Sample and In Situ Testing |      |         | Depth<br>(m) | Level<br>(m) | Legend | Stratum Description                                                                                                                                           | Scale |
|------------------------|------------------|----------------------------|------|---------|--------------|--------------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|                        |                  | Depth (m)                  | Type | Results |              |              |        |                                                                                                                                                               |       |
|                        |                  |                            |      |         | 20.40        | 57.53        |        | Soft, very wet, brown, slightly sandy, slightly gravelly CLAY. Sand is fine. Gravel is angular to rounded of fine to coarse mixed natural lithologies.<br>CGT | 20    |
|                        |                  |                            |      |         |              |              |        | End of Borehole at 20.40m                                                                                                                                     | 21    |
|                        |                  |                            |      |         |              |              |        |                                                                                                                                                               | 22    |
|                        |                  |                            |      |         |              |              |        |                                                                                                                                                               | 23    |
|                        |                  |                            |      |         |              |              |        |                                                                                                                                                               | 24    |
|                        |                  |                            |      |         |              |              |        |                                                                                                                                                               | 25    |
|                        |                  |                            |      |         |              |              |        |                                                                                                                                                               | 26    |
|                        |                  |                            |      |         |              |              |        |                                                                                                                                                               | 27    |
|                        |                  |                            |      |         |              |              |        |                                                                                                                                                               | 28    |
|                        |                  |                            |      |         |              |              |        |                                                                                                                                                               | 29    |

| Hole Diameter |          | Casing Diameter |          | Chiselling       |                  |                |      | Inclination and Orientation |      |             |             | Installation   |                |                  |              |
|---------------|----------|-----------------|----------|------------------|------------------|----------------|------|-----------------------------|------|-------------|-------------|----------------|----------------|------------------|--------------|
| Depth Base    | Diameter | Depth Base      | Diameter | Depth Top        | Depth Base       | Duration       | Tool | Top                         | Base | Inclination | Orientation | Top            | Base           | Pipe Type        | Diameter     |
| 20.40m        | 200mm    | 18.00m          | 200mm    | 13.00m<br>14.00m | 14.00m<br>18.00m | 00:45<br>05:00 |      |                             |      |             |             | 0.00m<br>2.20m | 2.20m<br>5.00m | PLAIN<br>SLOTTED | 63mm<br>63mm |

Remarks

Logging has been undertaken to provide an approximate volumetric percentage of the various constituents present.

# Cable Percussive Borehole Log

BOREHOLE REFERENCE  
**CP109**  
Sheet 1 of 2

|                              |                                |                                |
|------------------------------|--------------------------------|--------------------------------|
| Project Name: Ten Acres Lane | Client: NUVU Developments Ltd  | Date: 14/10/2020 - 16/10/2020  |
| Location: Newton Heath       | Contractor: Geotron            | Co-ords: E387572.00 N400193.00 |
| Project No. : LD10385        | Drilling Equipment: Dando 2500 | Level : 82.60m AoD             |

|                 |                  |                   |                         |                       |
|-----------------|------------------|-------------------|-------------------------|-----------------------|
| Logged By<br>EG | Checked By<br>JC | Approved By<br>MP | SPT Energy Ratio<br>67% | Final Depth<br>14.80m |
|-----------------|------------------|-------------------|-------------------------|-----------------------|

| Instal. / Backfill                                                                 | Water Strikes                                                                     | Sample and In Situ Testing |        |                       | Depth (m) | Level (m) | Legend | Stratum Description                                                                                                                                                                                                                                                                                                                                                                                                                  | Scale |
|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------|--------|-----------------------|-----------|-----------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|                                                                                    |                                                                                   | Depth (m)                  | Type   | Results               |           |           |        |                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |
|  |  |                            |        |                       | 0.55      | 82.05     |        | Recovered as 90% brown, very gravelly, slightly clayey, fine to coarse SAND; 5% roots and rootlets; and 5% plastic (bags and sheeting). Gravel is angular to subangular of fine to coarse brick (60%), concrete (15%), glazed ceramic (5%), plastic (5%), glass (5%), slate (5%), and sandstone (5%).<br>GMG                                                                                                                         |       |
|                                                                                    |                                                                                   | 1.00                       | ES     |                       |           |           |        |                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |
|                                                                                    |                                                                                   | 1.20                       | SPT(S) | N=34 (2,5/1,2,5,26)   |           |           |        | Recovered as 70% cobble sized inclusions of stiff, brown, slightly gravelly CLAY; 10% cobble sized red brick fragments; 10% cobble sized inclusions of soft, black, slightly sandy, slightly gravelly CLAY; 2.5% cobble sized glazed ceramic fragments, 2.5% rags and sponge; 2.5% wooden chips; and 2.5% roots and rootlets. Gravel is subrounded to well rounded of fine to medium mixed lithologies. Strong organic odour.<br>CMG | 1     |
|                                                                                    |                                                                                   | 2.00                       | SPT(S) | N=10 (2,5/4,4,1,1)    | 1.85      | 80.75     |        | Recovered as 90% soft to firm, dark grey to black, slightly sandy, gravelly CLAY; and 10% cobble sized plastic fragments. Gravel is angular to subangular of fine to coarse brick (70%), concrete (20%) and slate (10%). Organic odour.<br>CMG                                                                                                                                                                                       | 2     |
|                                                                                    |                                                                                   | 3.00 – 3.50                | ES     |                       | 3.00      | 79.60     |        | Recovered as loose, brown, very clayey, angular to subangular, fine to coarse GRAVEL of red brick (55%), concrete (15%), mudstone (10%), sandstone (10%), timber (5%) and glass (5%). Decaying vegetation odour.<br>GMG                                                                                                                                                                                                              | 3     |
|                                                                                    |                                                                                   | 3.00                       | SPT(S) | N=4 (1,1/1,1,1,1)     |           |           |        |                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |
|                                                                                    |                                                                                   |                            |        |                       | 3.65      | 78.95     |        |                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |
|                                                                                    |                                                                                   | 4.00                       | SPT(C) | N=39 (2,2/5,14,11,9)  | 4.00      | 78.60     |        | Recovered as 55% loose, wet, brown, slightly sandy, slightly clayey GRAVEL; 20% cobble sized red brick fragments; 5% cobble sized flagstone fragments; 5% wooden peg fragments; 5% red bottle tops; 5% cobble sized metal fragments; and 5% plastic (sheeting and bags). Gravel is angular of fine to coarse brick (40%), concrete (40%), and glass (20%). Strong solvent odour.<br>DW                                               | 4     |
|                                                                                    |                                                                                   | 5.00                       | SPT(C) | N=10 (2,2/3,3,2,2)    | 5.00      | 77.60     |        | Recovered as 90% cobble sized red brick and concrete fragments; 5% brown, slightly clayey, gravelly, fine to coarse SAND; and 5% cobble sized timber fragments. Gravel is subangular to subrounded of fine to coarse mixed lithologies.<br>DW                                                                                                                                                                                        | 5     |
|                                                                                    |                                                                                   | 6.00                       | SPT(C) | N=14 (5,6/4,3,3,4)    | 6.00      | 76.60     |        | Recovered as 75% dark grey, very sandy, slightly clayey GRAVEL; 10% cobble sized timber fragments; 10% cobbles sized red brick and concrete fragments; 5% plastic fragments (pipes, glasses frame); and 5% plastic bags. Sand is fine to coarse. Gravel is angular to subangular of fine to coarse brick (50%), concrete (20%), glass (10%), ceramic (10%), sandstone (5%), and slate (5%).<br>DW                                    | 6     |
|                                                                                    |                                                                                   | 7.00                       | SPT(C) | N=37 (7,12/10,16,8,3) |           |           |        | Recovered as 60% cobbles sized red brick and concrete fragments; 10% medium dense, dark grey, very sandy, slightly clayey GRAVEL; 10% cobble sized timber fragments; 10% cobble sized metal fragments; 5% fabrics; and 5% glass. Gravel is angular to subangular of fine to coarse brick (50%), concrete (20%), glass (10%), ceramic (10%), sandstone (5%), and slate (5%).<br>DW                                                    | 7     |
|                                                                                    |                                                                                   | 7.50                       | ES     |                       |           |           |        |                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |
|                                                                                    |                                                                                   | 7.50                       |        |                       |           |           |        |                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |
|                                                                                    |                                                                                   | 8.00                       | SPT(C) | N=14 (3,2/4,4,3,3)    | 8.00      | 74.60     |        | Recovered as 90% glass and metal fragments (bottles and lids); and 10% black, gravelly, fine to coarse SAND. Gravel is fine to medium of brick and concrete.<br>HW                                                                                                                                                                                                                                                                   | 8     |
|                                                                                    |                                                                                   | 9.00                       | SPT(C) | N=10 (2,1/1,2,3,4)    | 9.00      | 73.60     |        | Recovered as 75% medium dense, dark grey, very sandy, slightly clayey GRAVEL; 15% cobble sized red brick fragments; 10% cobble sized fragments of sandstone; 5% cobble sized metal fragments; and 5% cobble sized timber fragments. Gravel is angular to subrounded of fine to coarse brick (50%), concrete (30%), slate (10%), glass (5%), and sandstone (5%).<br>DW                                                                | 9     |

| Hole Diameter |          | Casing Diameter  |                | Chiselling |            |          |      | Inclination and Orientation |      |             |             | Installation   |                 |                  |          |
|---------------|----------|------------------|----------------|------------|------------|----------|------|-----------------------------|------|-------------|-------------|----------------|-----------------|------------------|----------|
| Depth Base    | Diameter | Depth Base       | Diameter       | Depth Top  | Depth Base | Duration | Tool | Top                         | Base | Inclination | Orientation | Top            | Base            | Pipe Type        | Diameter |
| 14.80m        | 200mm    | 14.10m<br>14.80m | 200mm<br>150mm |            |            |          |      |                             |      |             |             | 0.00m<br>9.00m | 9.00m<br>13.00m | PLAIN<br>SLOTTED |          |

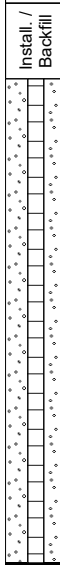
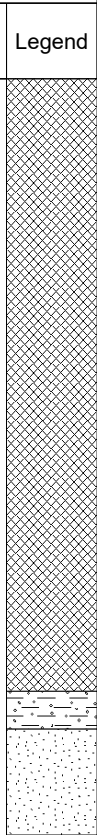
**Remarks**  
Logging has been undertaken to provide an approximate volumetric percentage of the various constituents present. Cable percussion clean drilling method utilised. 8 inch casing used until 14.1m, where a bentonite seal was placed then 6 inch casing until 14.8m.

# Cable Percussive Borehole Log

BOREHOLE REFERENCE  
**CP109**  
Sheet 2 of 2

|                              |                                |                                |
|------------------------------|--------------------------------|--------------------------------|
| Project Name: Ten Acres Lane | Client: NUVU Developments Ltd  | Date: 14/10/2020 - 16/10/2020  |
| Location: Newton Heath       | Contractor: Geotron            | Co-ords: E387572.00 N400193.00 |
| Project No. : LD10385        | Drilling Equipment: Dando 2500 | Level : 82.60m AoD             |

|                 |                  |                   |                         |                       |
|-----------------|------------------|-------------------|-------------------------|-----------------------|
| Logged By<br>EG | Checked By<br>JC | Approved By<br>MP | SPT Energy Ratio<br>67% | Final Depth<br>14.80m |
|-----------------|------------------|-------------------|-------------------------|-----------------------|

| Instal. /<br>Backfill                                                             | Water<br>Strikes | Sample and In Situ Testing |        |                       | Depth<br>(m)                | Level<br>(m)                | Legend                                                                             | Stratum Description                                                                                                                                                                                                                                                                                                                                                   | Scale |
|-----------------------------------------------------------------------------------|------------------|----------------------------|--------|-----------------------|-----------------------------|-----------------------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|                                                                                   |                  | Depth (m)                  | Type   | Results               |                             |                             |                                                                                    |                                                                                                                                                                                                                                                                                                                                                                       |       |
|  |                  | 10.00                      | SPT(C) | N=34 (9,14/10,12,8,4) |                             |                             |                                                                                    | Recovered as 75% medium dense, dark grey, very sandy, slightly clayey GRAVEL; 15% cobble sized red brick fragments; 10% cobble sized fragments of sandstone; 5% cobble sized metal fragments; and 5% cobble sized timber fragments. Gravel is angular to subrounded of fine to coarse brick (50%), concrete (30%), slate (10%), glass (5%), and sandstone (5%).<br>DW | 10    |
|                                                                                   |                  | 11.00                      | SPT(C) | N=15 (2,3/2,4,3,6)    |                             |                             |                                                                                    | 11.00m - 13.80m : Frequent timber fragments (35cm) and strong odour.                                                                                                                                                                                                                                                                                                  | 11    |
|                                                                                   |                  | 12.00                      | SPT(C) | N=13 (2,2/2,3,4,4)    |                             |                             |                                                                                    |                                                                                                                                                                                                                                                                                                                                                                       | 12    |
|                                                                                   |                  | 13.00                      | SPT(C) | N=6 (1,1/3,1,1,1)     |                             |                             |                                                                                    |                                                                                                                                                                                                                                                                                                                                                                       | 13    |
|                                                                                   |                  | 14.00                      | SPT(S) | N=40 (4,7/9,11,11,9)  | 13.85<br>14.10<br><br>14.80 | 68.75<br>68.50<br><br>67.80 |  | Stiff, brown, slightly gravelly CLAY. Gravel is subrounded of fine mixed natural lithologies.<br>CGT<br>Brown, fine to medium SAND.<br>GGT                                                                                                                                                                                                                            | 14    |
|                                                                                   |                  |                            |        |                       |                             |                             |                                                                                    | End of Borehole at 14.80m                                                                                                                                                                                                                                                                                                                                             | 15    |
|                                                                                   |                  |                            |        |                       |                             |                             |                                                                                    |                                                                                                                                                                                                                                                                                                                                                                       | 16    |
|                                                                                   |                  |                            |        |                       |                             |                             |                                                                                    |                                                                                                                                                                                                                                                                                                                                                                       | 17    |
|                                                                                   |                  |                            |        |                       |                             |                             |                                                                                    |                                                                                                                                                                                                                                                                                                                                                                       | 18    |
|                                                                                   |                  |                            |        |                       |                             |                             |                                                                                    |                                                                                                                                                                                                                                                                                                                                                                       | 19    |

| Hole Diameter |          | Casing Diameter  |                | Chiselling |            |          |      | Inclination and Orientation |      |             |             | Installation   |                 |                  |          |
|---------------|----------|------------------|----------------|------------|------------|----------|------|-----------------------------|------|-------------|-------------|----------------|-----------------|------------------|----------|
| Depth Base    | Diameter | Depth Base       | Diameter       | Depth Top  | Depth Base | Duration | Tool | Top                         | Base | Inclination | Orientation | Top            | Base            | Pipe Type        | Diameter |
| 14.80m        | 200mm    | 14.10m<br>14.80m | 200mm<br>150mm |            |            |          |      |                             |      |             |             | 0.00m<br>9.00m | 9.00m<br>13.00m | PLAIN<br>SLOTTED |          |

**Remarks**  
Logging has been undertaken to provide an approximate volumetric percentage of the various constituents present. Cable percussion clean drilling method utilised. 8 inch casing used until 14.1m, where a bentonite seal was placed then 6 inch casing until 14.8m.

# Cable Percussive Borehole Log

BOREHOLE REFERENCE  
**CP110**  
Sheet 1 of 1

|                              |                                |                                |
|------------------------------|--------------------------------|--------------------------------|
| Project Name: Ten Acres Lane | Client: NUVU Developments Ltd  | Date: 08/10/2020               |
| Location: Newton Heath       | Contractor: Geotron            | Co-ords: E387426.48 N400217.34 |
| Project No. : LD10385        | Drilling Equipment: Dando 2500 | Level : 80.41m AoD             |

|                 |                  |                   |                         |                      |
|-----------------|------------------|-------------------|-------------------------|----------------------|
| Logged By<br>LT | Checked By<br>JC | Approved By<br>MP | SPT Energy Ratio<br>67% | Final Depth<br>8.50m |
|-----------------|------------------|-------------------|-------------------------|----------------------|

| Install. / Backfill | Water Strikes | Sample and In Situ Testing                        |                       |                    | Depth (m) | Level (m) | Legend | Stratum Description                                                                                                                                                                  | Scale |
|---------------------|---------------|---------------------------------------------------|-----------------------|--------------------|-----------|-----------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|                     |               | Depth (m)                                         | Type                  | Results            |           |           |        |                                                                                                                                                                                      |       |
|                     |               |                                                   |                       |                    | 0.20      | 80.21     |        | Firm, dark brown, slightly sandy, silty CLAY. TF                                                                                                                                     |       |
|                     |               | 0.60<br>0.60                                      | ES                    | 0.10ppmv           | 0.80      | 79.61     |        | Recovered as dark grey, gravelly, very clayey, fine to coarse SAND. Gravel is subangular to subrounded of fine to coarse brick, concrete and sandstone. GMG                          | 1     |
|                     |               | 1.50                                              | SPT(S)                | N=1 (1,0/0,0,0,1)  | 1.50      | 78.91     |        | Recovered as very soft, white, gravelly CLAY. Gravel is subangular of fine to coarse weathered chalk. GMG                                                                            | 2     |
|                     |               | 2.50                                              | SPT(C)                | N=4 (1,2/1,0,2,1)  | 2.50      | 77.91     |        | Driller notes black ashy GRAVEL of brick with occasional brick cobbles. GMG                                                                                                          | 3     |
|                     |               | 3.50                                              | SPT(C)                | N=13 (1,2/4,3,3,3) |           |           |        | Recovered as 85% grey and brown sandy, very clayey GRAVEL; 15% cobble sized inclusions of firm, brown CLAY. Gravel is angular to subangular of fine to coarse mixed lithologies. GMG | 4     |
|                     |               | 4.50 – 4.95<br>4.50 – 5.50<br>4.50                | D<br>B<br>SPT(S)      | N=10 (2,3/3,2,2,3) | 4.00      | 76.41     |        | Stiff, brown, gleyed grey, slightly sandy, slightly gravelly CLAY. Gravel is subangular to subrounded of fine to coarse mixed lithologies. CGT                                       | 5     |
|                     |               | 5.50 – 5.95                                       | UT                    |                    |           |           |        | 5.50m - 5.70m : Driller notes thin lamination of SAND.                                                                                                                               | 6     |
|                     |               | 7.00 – 7.45<br>7.00 – 8.50<br>7.00 – 8.50<br>7.00 | D<br>B<br>B<br>SPT(S) | N=10 (1,2/2,3,3,2) |           |           |        |                                                                                                                                                                                      | 7     |
|                     |               | 8.00 – 8.45                                       | UT                    |                    | 8.50      | 71.91     |        | End of Borehole at 8.50m                                                                                                                                                             | 8     |
|                     |               |                                                   |                       |                    |           |           |        |                                                                                                                                                                                      | 9     |

| Hole Diameter  |                | Casing Diameter |          | Chiselling |            |          |      | Inclination and Orientation |      |             |             | Installation   |                |                  |          |
|----------------|----------------|-----------------|----------|------------|------------|----------|------|-----------------------------|------|-------------|-------------|----------------|----------------|------------------|----------|
| Depth Base     | Diameter       | Depth Base      | Diameter | Depth Top  | Depth Base | Duration | Tool | Top                         | Base | Inclination | Orientation | Top            | Base           | Pipe Type        | Diameter |
| 1.20m<br>8.50m | 300mm<br>200mm | 7.00m           | 200mm    |            |            |          |      |                             |      |             |             | 0.00m<br>1.00m | 1.00m<br>4.00m | PLAIN<br>SLOTTED |          |

Remarks  
Logging has been undertaken to provide an approximate volumetric percentage of the various constituents present.

Log printed on 13/09/2022 at 13:09

|                              |                  |                                                |                         |                                |                       |
|------------------------------|------------------|------------------------------------------------|-------------------------|--------------------------------|-----------------------|
| Project Name: Ten Acres Lane |                  | Client: NUVU Developments Ltd                  |                         | Date: 16/10/2020               |                       |
| Location: Newton Heath       |                  | Contractor: Geotron                            |                         | Co-ords: E387644.00 N400248.00 |                       |
| Project No. : LD10385        |                  | Drilling Equipment: Dando 2500 & Comacchio 205 |                         | Level : 83.90m AoD             |                       |
| Logged By<br>EG              | Checked By<br>JC | Approved By<br>MP                              | SPT Energy Ratio<br>67% |                                | Final Depth<br>31.00m |

| Install. / Backfill | Water Strikes | Sample and In Situ Testing |              |                    | Depth (m) | Level (m) | Legend | Stratum Description                                                                                                                                                                                                                                                                                                                                                                                                 | Scale |
|---------------------|---------------|----------------------------|--------------|--------------------|-----------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|                     |               | Depth (m)                  | Type         | Results            |           |           |        |                                                                                                                                                                                                                                                                                                                                                                                                                     |       |
|                     |               |                            |              |                    | 0.10      | 83.80     |        | Recovered as brown, organic, slightly sandy, gravelly CLAY with occasional roots and rootlets.<br>TF                                                                                                                                                                                                                                                                                                                |       |
|                     |               | 1.00                       | SPT(S)       | N=11 (3,3/3,3,3,2) |           |           |        | Recovered as 75% firm, brown and grey mottled, slightly sandy, gravelly CLAY; 10% cobble sized fragments of red brick; 5% cobble sized metal fragments; 5% cobble sized aminated hardboard fragments; 5% cobble sized timber fragments; and 5% roots and rootlets. Gravel is angular to subrounded of fine to coarse brick (60%), concrete (5%), ceramic (5%), glass (5%), sandstone (5%) and mudstone (5%).<br>CMG | 1     |
|                     |               | 1.50                       | ES           |                    |           |           |        |                                                                                                                                                                                                                                                                                                                                                                                                                     |       |
|                     |               | 2.00                       | SPT(S)       | N=8 (1,1/1,2,2,3)  | 2.00      | 81.90     |        | Recovered as medium dense, brown, clayey, very sandy angular to subrounded of fine to coarse GRAVEL of timber (45%), red brick (30%), glass (10%), concrete (5%) and ceramic (5%).<br>GMG                                                                                                                                                                                                                           | 2     |
|                     |               | 3.00                       | SPT(S)       | N=20 (3,4/3,3,5,9) | 3.00      | 80.90     |        | Recovered as 75% dark brown, stained black, gravelly, fine to coarse SAND; 20% cobble sized inclusions of firm, brown and grey mottled, slightly gravelly CLAY; and 5% rootlets. Gravel is angular to subangular of fine to medium brick (80%), ceramic, glass, and sandstone (20%).<br>Hydrocarbon odour.<br>GMG                                                                                                   | 3     |
|                     |               | 3.50                       | ES           |                    |           |           |        |                                                                                                                                                                                                                                                                                                                                                                                                                     |       |
|                     |               | 4.00                       | SPT(S)       | N=5 (1,2/2,1,1,1)  | 4.00      | 79.90     |        | Recovered as 60% cobble to boulder sized inclusions of stiff, brown mottled grey in places, slightly gravelly CLAY; 15% plastic sheeting, 15% cobble sized red brick and concrete fragments; and 10% cobble sized timber fragments. Gravel is subangular to subrounded of fine to medium mixed lithologies. Very strong odour.<br>CMG                                                                               | 4     |
|                     |               | 5.00                       | SPT(S)       | N=12 (1,1/2,2,4,4) | 5.00      | 78.90     |        | Recovered as firm, brown, slightly gravelly CLAY with occasional rootlets. Gravel is subangular to well rounded of fine to medium mixed lithologies.<br>CMG                                                                                                                                                                                                                                                         | 5     |
|                     |               |                            |              |                    | 5.45      | 78.45     |        | 5.40m - 5.45m : Brown, fine to medium SAND.<br>Recovered as 80% grey, sandy, slightly clayey GRAVEL; 10% cobble sized timber fragments; 5% cobble sized metal fragments, 5% plastic. Gravel is subangular to subrounded of fine to coarse glass, brick, and concrete. Hydrocarbon odour.<br>GMG                                                                                                                     | 6     |
|                     |               | 6.50                       | SPT(S)       | N=11 (1,2/2,2,3,4) |           |           |        |                                                                                                                                                                                                                                                                                                                                                                                                                     |       |
|                     |               |                            |              |                    | 6.80      | 77.10     |        | Firm, brown, slightly sandy, slightly gravelly CLAY with frequent rootlets. Gravel is subangular to subrounded of fine to coarse mixed natural lithologies.<br>CGT                                                                                                                                                                                                                                                  | 7     |
|                     |               |                            |              |                    | 7.60      | 76.30     |        | Medium dense, light brown, gravelly, fine to medium SAND possibly with occasional cobble sized pockets of sand. Gravel is subrounded of fine to coarse sandstone, mudstone, and siltstone.<br>GGT                                                                                                                                                                                                                   | 8     |
|                     |               | 8.00<br>8.00<br>8.00       | ES<br>SPT(S) | N=15 (4,4/3,3,5,4) |           |           |        | 8.45m - 9.30m : Occasional cobble sized pockets of black sand.                                                                                                                                                                                                                                                                                                                                                      |       |
|                     |               |                            |              |                    | 9.30      | 74.60     |        | Soft, brown, slightly sandy, slightly gravelly CLAY possibly with occasional laminations of fine sand. Gravel is subangular to subrounded of fine to coarse mixed natural lithologies. Sand is fine to medium.<br>CGT                                                                                                                                                                                               | 9     |

| Hole Diameter   |                | Casing Diameter |                | Chiselling |            |          |      | Inclination and Orientation |      |             |             | Installation                      |                                    |                                      |          |
|-----------------|----------------|-----------------|----------------|------------|------------|----------|------|-----------------------------|------|-------------|-------------|-----------------------------------|------------------------------------|--------------------------------------|----------|
| Depth Base      | Diameter       | Depth Base      | Diameter       | Depth Top  | Depth Base | Duration | Tool | Top                         | Base | Inclination | Orientation | Top                               | Base                               | Pipe Type                            | Diameter |
| 7.00m<br>15.80m | 200mm<br>150mm | 7.00m<br>15.80m | 200mm<br>150mm |            |            |          |      |                             |      |             |             | 0.00m<br>8.00m<br>0.00m<br>27.00m | 8.00m<br>9.00m<br>27.00m<br>30.00m | PLAIN<br>SLOTTED<br>PLAIN<br>SLOTTED |          |

**Remarks**  
Logging has been undertaken to provide an approximate volumetric percentage of the various constituents present. Cable percussion method utilised until 15.8m and then rotary open hole follow on through a bentonite seal from 15.8m to 31m.

|                              |                  |                                                |                         |                                |                       |
|------------------------------|------------------|------------------------------------------------|-------------------------|--------------------------------|-----------------------|
| Project Name: Ten Acres Lane |                  | Client: NUVU Developments Ltd                  |                         | Date: 16/10/2020               |                       |
| Location: Newton Heath       |                  | Contractor: Geotron                            |                         | Co-ords: E387644.00 N400248.00 |                       |
| Project No. : LD10385        |                  | Drilling Equipment: Dando 2500 & Comacchio 205 |                         | Level : 83.90m AoD             |                       |
| Logged By<br>EG              | Checked By<br>JC | Approved By<br>MP                              | SPT Energy Ratio<br>67% |                                | Final Depth<br>31.00m |

| Install. / Backfill | Water Strikes | Sample and In Situ Testing |             |                    | Depth (m) | Level (m) | Legend | Stratum Description                                                                                                                                                                                                                                                                                    | Scale |
|---------------------|---------------|----------------------------|-------------|--------------------|-----------|-----------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|                     |               | Depth (m)                  | Type        | Results            |           |           |        |                                                                                                                                                                                                                                                                                                        |       |
|                     |               | 11.00 – 12.00<br>11.00     | B<br>SPT(S) | N=19 (2,2/4,4,5,6) | 11.00     | 72.90     |        | Soft, brown, slightly sandy, slightly gravelly CLAY possibly with occasional laminations of fine sand. Gravel is subangular to subrounded of fine to coarse mixed natural lithologies. Sand is fine to medium.<br>CGT<br><i>10.20m : Becoming firm, brown, slightly sandy, slightly gravelly CLAY.</i> | 10    |
|                     |               |                            |             |                    |           |           |        | Stiff, brown, slightly gravelly CLAY. Gravel is subangular to well rounded of fine to medium mixed natural lithologies.<br>CGT                                                                                                                                                                         | 11    |
|                     |               | 12.50 – 12.95              | UT          |                    |           |           |        |                                                                                                                                                                                                                                                                                                        | 12    |
|                     |               | 12.85 – 13.30              | UT          |                    | 12.85     | 71.05     |        | Very stiff, brown, slightly sandy, slightly gravelly CLAY. Gravel is subangular to well rounded of fine to medium mixed natural lithologies.<br>CGT<br><i>13.00m - 15.80m : Becoming soft with coarse gravel sized pockets of fine sand.</i>                                                           | 13    |
|                     |               |                            |             |                    | 15.80     | 68.10     |        | Driller notes sandy CLAY.<br>CGT                                                                                                                                                                                                                                                                       | 16    |
|                     |               |                            |             |                    | 18.00     | 65.90     |        | Driller notes wet SAND.<br>GGT                                                                                                                                                                                                                                                                         | 18    |
|                     |               |                            |             |                    |           |           |        |                                                                                                                                                                                                                                                                                                        | 19    |

| Hole Diameter   |                | Casing Diameter |                | Chiselling |            |          |      | Inclination and Orientation |      |             |             | Installation                      |                                    |                                      |          |
|-----------------|----------------|-----------------|----------------|------------|------------|----------|------|-----------------------------|------|-------------|-------------|-----------------------------------|------------------------------------|--------------------------------------|----------|
| Depth Base      | Diameter       | Depth Base      | Diameter       | Depth Top  | Depth Base | Duration | Tool | Top                         | Base | Inclination | Orientation | Top                               | Base                               | Pipe Type                            | Diameter |
| 7.00m<br>15.80m | 200mm<br>150mm | 7.00m<br>15.80m | 200mm<br>150mm |            |            |          |      |                             |      |             |             | 0.00m<br>8.00m<br>0.00m<br>27.00m | 8.00m<br>9.00m<br>27.00m<br>30.00m | PLAIN<br>SLOTTED<br>PLAIN<br>SLOTTED |          |

## Remarks

Logging has been undertaken to provide an approximate volumetric percentage of the various constituents present. Cable percussion method utilised until 15.8m and then rotary open hole follow on through a bentonite seal from 15.8m to 31m.

# Cable Percussive Borehole Log

BOREHOLE REFERENCE  
**CP112/RH103**  
Sheet 3 of 4

|                              |                  |                                                |                         |                                |                       |
|------------------------------|------------------|------------------------------------------------|-------------------------|--------------------------------|-----------------------|
| Project Name: Ten Acres Lane |                  | Client: NUVU Developments Ltd                  |                         | Date: 16/10/2020               |                       |
| Location: Newton Heath       |                  | Contractor: Geotron                            |                         | Co-ords: E387644.00 N400248.00 |                       |
| Project No. : LD10385        |                  | Drilling Equipment: Dando 2500 & Comacchio 205 |                         | Level : 83.90m AoD             |                       |
| Logged By<br>EG              | Checked By<br>JC | Approved By<br>MP                              | SPT Energy Ratio<br>67% |                                | Final Depth<br>31.00m |

| Instal. / Backfill | Water Strikes | Sample and In Situ Testing |      |         | Depth (m) | Level (m) | Legend | Stratum Description                                                                                                                                               | Scale |
|--------------------|---------------|----------------------------|------|---------|-----------|-----------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|                    |               | Depth (m)                  | Type | Results |           |           |        |                                                                                                                                                                   |       |
|                    |               |                            |      |         | 20.50     | 63.40     |        | Driller notes wet SAND. GGT                                                                                                                                       | 20    |
|                    |               |                            |      |         | 20.70     | 63.20     |        | Driller notes BOULDER. GGT                                                                                                                                        |       |
|                    |               |                            |      |         |           |           |        | Driller notes wet SAND. GGT                                                                                                                                       | 21    |
|                    |               |                            |      |         |           |           |        |                                                                                                                                                                   | 22    |
|                    |               |                            |      |         |           |           |        |                                                                                                                                                                   | 23    |
|                    |               |                            |      |         |           |           |        |                                                                                                                                                                   | 24    |
|                    |               |                            |      |         |           |           |        |                                                                                                                                                                   | 25    |
|                    |               |                            |      |         |           |           |        |                                                                                                                                                                   | 26    |
|                    |               | 26.50 – 28.50              | D    |         |           |           |        |                                                                                                                                                                   | 27    |
|                    |               |                            |      |         | 28.00     | 55.90     |        | Very stiff to hard, friable, thinly laminated, brown, slightly gravelly CLAY. Gravel is subangular to subrounded of fine to medium mixed natural lithologies. CGT | 28    |
|                    |               | 28.50 – 30.50              | C    |         |           |           |        |                                                                                                                                                                   | 29    |

| Hole Diameter   |                | Casing Diameter |                | Chiselling |            |          |      | Inclination and Orientation |      |             |             | Installation                      |                                    |                                      |          |
|-----------------|----------------|-----------------|----------------|------------|------------|----------|------|-----------------------------|------|-------------|-------------|-----------------------------------|------------------------------------|--------------------------------------|----------|
| Depth Base      | Diameter       | Depth Base      | Diameter       | Depth Top  | Depth Base | Duration | Tool | Top                         | Base | Inclination | Orientation | Top                               | Base                               | Pipe Type                            | Diameter |
| 7.00m<br>15.80m | 200mm<br>150mm | 7.00m<br>15.80m | 200mm<br>150mm |            |            |          |      |                             |      |             |             | 0.00m<br>8.00m<br>0.00m<br>27.00m | 8.00m<br>9.00m<br>27.00m<br>30.00m | PLAIN<br>SLOTTED<br>PLAIN<br>SLOTTED |          |

**Remarks**  
Logging has been undertaken to provide an approximate volumetric percentage of the various constituents present. Cable percussion method utilised until 15.8m and then rotary open hole follow on through a bentonite seal from 15.8m to 31m.

Log printed on 13/09/2022 at 13:09

# Cable Percussive Borehole Log

BOREHOLE REFERENCE  
**CP112/RH103**  
Sheet 4 of 4

|                              |                                                |                                |
|------------------------------|------------------------------------------------|--------------------------------|
| Project Name: Ten Acres Lane | Client: NUVU Developments Ltd                  | Date: 16/10/2020               |
| Location: Newton Heath       | Contractor: Geotron                            | Co-ords: E387644.00 N400248.00 |
| Project No. : LD10385        | Drilling Equipment: Dando 2500 & Comacchio 205 | Level : 83.90m AoD             |

|                 |                  |                   |                         |                       |
|-----------------|------------------|-------------------|-------------------------|-----------------------|
| Logged By<br>EG | Checked By<br>JC | Approved By<br>MP | SPT Energy Ratio<br>67% | Final Depth<br>31.00m |
|-----------------|------------------|-------------------|-------------------------|-----------------------|

| Instal. /<br>Backfill | Water<br>Strikes | Sample and In Situ Testing |      |         | Depth<br>(m) | Level<br>(m) | Legend | Stratum Description                                                                                                                                                                                                                                                                                     | Scale |
|-----------------------|------------------|----------------------------|------|---------|--------------|--------------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|                       |                  | Depth (m)                  | Type | Results |              |              |        |                                                                                                                                                                                                                                                                                                         |       |
|                       |                  |                            |      |         | 29.50        | 54.40        |        | Very stiff to hard, friable, thinly laminated, brown, slightly gravelly CLAY. Gravel is subangular to subrounded of fine to medium mixed natural lithologies.<br>CGT                                                                                                                                    |       |
|                       |                  |                            |      |         | 30.37        | 53.53        |        | Firm, brown, slightly sandy, slightly gravelly CLAY. Gravel is subrounded to subangular of fine to coarse gritstone and crystalline rocks. Sand is fine.<br>CGT                                                                                                                                         | 30    |
|                       |                  |                            |      |         | 31.00        | 52.90        |        | Very stiff to hard, friable, thinly laminated, brown, slightly gravelly CLAY with possible medium cobble content. Cobbles are subangular to subrounded of mixed natural lithologies. Gravel is subangular to rounded of fine to coarse grey siltstone, gritstone, quartz, and crystalline rocks.<br>CGT | 31    |
|                       |                  |                            |      |         |              |              |        | End of Borehole at 31.00m                                                                                                                                                                                                                                                                               |       |
|                       |                  |                            |      |         |              |              |        |                                                                                                                                                                                                                                                                                                         | 32    |
|                       |                  |                            |      |         |              |              |        |                                                                                                                                                                                                                                                                                                         | 33    |
|                       |                  |                            |      |         |              |              |        |                                                                                                                                                                                                                                                                                                         | 34    |
|                       |                  |                            |      |         |              |              |        |                                                                                                                                                                                                                                                                                                         | 35    |
|                       |                  |                            |      |         |              |              |        |                                                                                                                                                                                                                                                                                                         | 36    |
|                       |                  |                            |      |         |              |              |        |                                                                                                                                                                                                                                                                                                         | 37    |
|                       |                  |                            |      |         |              |              |        |                                                                                                                                                                                                                                                                                                         | 38    |
|                       |                  |                            |      |         |              |              |        |                                                                                                                                                                                                                                                                                                         | 39    |

| Hole Diameter   |                | Casing Diameter |                | Chiselling |            |          |      | Inclination and Orientation |      |             |             | Installation                      |                                    |                                      |          |
|-----------------|----------------|-----------------|----------------|------------|------------|----------|------|-----------------------------|------|-------------|-------------|-----------------------------------|------------------------------------|--------------------------------------|----------|
| Depth Base      | Diameter       | Depth Base      | Diameter       | Depth Top  | Depth Base | Duration | Tool | Top                         | Base | Inclination | Orientation | Top                               | Base                               | Pipe Type                            | Diameter |
| 7.00m<br>15.80m | 200mm<br>150mm | 7.00m<br>15.80m | 200mm<br>150mm |            |            |          |      |                             |      |             |             | 0.00m<br>8.00m<br>0.00m<br>27.00m | 8.00m<br>9.00m<br>27.00m<br>30.00m | PLAIN<br>SLOTTED<br>PLAIN<br>SLOTTED |          |

**Remarks**  
Logging has been undertaken to provide an approximate volumetric percentage of the various constituents present. Cable percussion method utilised until 15.8m and then rotary open hole follow on through a bentonite seal from 15.8m to 31m.

# Cable Percussive Borehole Log

BOREHOLE REFERENCE  
**CP113**  
Sheet 1 of 5

|                              |                                |                                |
|------------------------------|--------------------------------|--------------------------------|
| Project Name: Ten Acres Lane | Client: NUVU Developments Ltd  | Date: 08/10/2020 - 09/10/2020  |
| Location: Newton Heath       | Contractor: Geotron            | Co-ords: E387534.31 N400109.85 |
| Project No. : LD10385        | Drilling Equipment: Dando 2500 | Level : 81.20m AoD             |

|                 |                  |                   |                         |                      |
|-----------------|------------------|-------------------|-------------------------|----------------------|
| Logged By<br>LT | Checked By<br>JC | Approved By<br>MP | SPT Energy Ratio<br>67% | Final Depth<br>8.00m |
|-----------------|------------------|-------------------|-------------------------|----------------------|

| Instal. /<br>Backfill | Water<br>Strikes | Sample and In Situ Testing |        |                    | Depth<br>(m) | Level<br>(m) | Legend | Stratum Description                                                                                                                                                                              | Scale |
|-----------------------|------------------|----------------------------|--------|--------------------|--------------|--------------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|                       |                  | Depth (m)                  | Type   | Results            |              |              |        |                                                                                                                                                                                                  |       |
|                       |                  | 0.10                       |        |                    | 0.10         | 81.10        |        | Recovered as firm, dark brown, slightly sandy, silty CLAY. TF                                                                                                                                    |       |
|                       |                  | 0.40                       |        |                    | 0.40         | 80.80        |        | Recovered as 70% whole and half red bricks ; and 30% cobble sized inclusions of brown and orange, slightly sandy, gravelly CLAY. Gravel is subangular to subrounded of fine to coarse red brick. |       |
|                       |                  | 0.60                       |        |                    | 0.60         | 80.60        |        | CMG                                                                                                                                                                                              |       |
|                       |                  | 0.80                       | ES     | 0.10ppmv           |              |              |        | Recovered as dark grey, sandy CLAY. Gravel is subangular of fine to coarse coal, suspected clinker and glass.                                                                                    | 1     |
|                       |                  | 0.80                       |        |                    |              |              |        | CMG                                                                                                                                                                                              |       |
|                       |                  | 0.80                       |        | 0.80ppmv           |              |              |        | Soft to firm, slightly sandy, slightly gravelly CLAY possibly with occasional silt and fine sand lenses. Gravel is subangular to subrounded of fine to coarse mixed lithologies.                 |       |
|                       |                  | 1.20                       | SPT(S) | N=13 (3,3/4,2,2,5) | 1.20         | 80.00        |        | CGT                                                                                                                                                                                              | 2     |
|                       |                  | 2.00                       | SPT(S) | N=18 (1,2/3,7,5,3) |              |              |        | 0.95m : Slight seepage.                                                                                                                                                                          |       |
|                       |                  | 2.20                       |        |                    | 2.20         | 79.00        |        | Medium dense, brown, silty, very clayey, fine to medium SAND.                                                                                                                                    |       |
|                       |                  | 2.40                       |        |                    | 2.40         | 78.80        |        | GGT                                                                                                                                                                                              |       |
|                       |                  | 2.60                       |        |                    | 2.60         | 78.60        |        | Firm to stiff, brown mottled grey, slightly sandy, slightly gravelly CLAY. Gravel is subangular to subrounded of fine to medium sandstone, mudstone and coal.                                    | 3     |
|                       |                  | 3.00 – 3.45                | UT     |                    |              |              |        | CGT                                                                                                                                                                                              |       |
|                       |                  | 3.45 – 3.65                | UT     |                    |              |              |        | Driller notes medium dense, orangish brown coarse SAND.                                                                                                                                          |       |
|                       |                  | 3.65 – 3.85                |        |                    |              |              |        | GGT                                                                                                                                                                                              |       |
|                       |                  | 4.00                       | SPT(S) | N=15 (1,2/3,3,4,5) |              |              |        | Driller notes brown, sandy, silty CLAY with occasional sandy, gravelly lenses.                                                                                                                   | 4     |
|                       |                  | 4.00                       |        |                    |              |              |        | CGT                                                                                                                                                                                              |       |
|                       |                  | 5.00 – 5.45                | UT     |                    |              |              |        |                                                                                                                                                                                                  | 5     |
|                       |                  | 5.45 – 6.00                | B      |                    |              |              |        |                                                                                                                                                                                                  |       |
|                       |                  | 5.45 – 6.00                | B      |                    |              |              |        |                                                                                                                                                                                                  | 6     |
|                       |                  | 6.45 – 7.00                | B      |                    |              |              |        |                                                                                                                                                                                                  |       |
|                       |                  | 6.45 – 7.00                | B      |                    |              |              |        |                                                                                                                                                                                                  |       |
|                       |                  | 7.00 – 7.45                | UT     |                    |              |              |        |                                                                                                                                                                                                  | 7     |
|                       |                  | 8.00                       |        |                    | 8.00         | 73.20        |        | End of Borehole at 8.00m                                                                                                                                                                         | 8     |

| Hole Diameter |          | Casing Diameter |                | Chiselling |            |          |      | Inclination and Orientation |      |             |             | Installation   |                |                  |          |
|---------------|----------|-----------------|----------------|------------|------------|----------|------|-----------------------------|------|-------------|-------------|----------------|----------------|------------------|----------|
| Depth Base    | Diameter | Depth Base      | Diameter       | Depth Top  | Depth Base | Duration | Tool | Top                         | Base | Inclination | Orientation | Top            | Base           | Pipe Type        | Diameter |
| 8.00m         | 200mm    | 1.20m<br>8.00m  | 200mm<br>150mm |            |            |          |      |                             |      |             |             | 0.00m<br>1.30m | 1.30m<br>3.00m | PLAIN<br>SLOTTED |          |

Remarks  
Logging has been undertaken to provide an approximate volumetric percentage of the various constituents present. Cable percussion clean drilling method utilised. 8 inch casing used until 1.2m, where a bentonite seal was placed then 6 inch casing until 8m.

# Cable Percussive Borehole Log

BOREHOLE REFERENCE

**CP113**

Sheet 2 of 5

Project Name: Ten Acres Lane

Client: NUVU Developments Ltd

Date: 08/10/2020 - 09/10/2020

Location: Newton Heath

Contractor: Geotron

Co-ords: E387534.31 N400109.85

Project No. : LD10385

Drilling Equipment: Dando 2500

Level : 81.20m AoD

Logged By  
LT

Checked By  
JC

Approved By  
MP

SPT Energy Ratio  
67%

Final Depth  
8.00m

| Install. /<br>Back fill | Water<br>Strikes | Sample and In Situ Testing |      |         | Depth<br>(m) | Level<br>(m) | Legend | Stratum Description | Scale |
|-------------------------|------------------|----------------------------|------|---------|--------------|--------------|--------|---------------------|-------|
|                         |                  | Depth (m)                  | Type | Results |              |              |        |                     |       |
|                         |                  |                            |      |         |              |              |        |                     | 10    |
|                         |                  |                            |      |         |              |              |        |                     | 11    |
|                         |                  |                            |      |         |              |              |        |                     | 12    |
|                         |                  |                            |      |         |              |              |        |                     | 13    |
|                         |                  |                            |      |         |              |              |        |                     | 14    |
|                         |                  |                            |      |         |              |              |        |                     | 15    |
|                         |                  |                            |      |         |              |              |        |                     | 16    |
|                         |                  |                            |      |         |              |              |        |                     | 17    |
|                         |                  |                            |      |         |              |              |        |                     | 18    |
|                         |                  |                            |      |         |              |              |        |                     | 19    |

| Hole Diameter |          | Casing Diameter |                | Chiselling |            |          |      | Inclination and Orientation |      |             |             | Installation   |                |                  |          |
|---------------|----------|-----------------|----------------|------------|------------|----------|------|-----------------------------|------|-------------|-------------|----------------|----------------|------------------|----------|
| Depth Base    | Diameter | Depth Base      | Diameter       | Depth Top  | Depth Base | Duration | Tool | Top                         | Base | Inclination | Orientation | Top            | Base           | Pipe Type        | Diameter |
| 8.00m         | 200mm    | 1.20m<br>8.00m  | 200mm<br>150mm |            |            |          |      |                             |      |             |             | 0.00m<br>1.30m | 1.30m<br>3.00m | PLAIN<br>SLOTTED |          |

## Remarks

Logging has been undertaken to provide an approximate volumetric percentage of the various constituents present. Cable percussion clean drilling method utilised. 8 inch casing used until 1.2m, where a bentonite seal was placed then 6 inch casing until 8m.

# Cable Percussive Borehole Log

BOREHOLE REFERENCE

**CP113**

Sheet 3 of 5

Project Name: Ten Acres Lane

Client: NUVU Developments Ltd

Date: 08/10/2020 - 09/10/2020

Location: Newton Heath

Contractor: Geotron

Co-ords: E387534.31 N400109.85

Project No. : LD10385

Drilling Equipment: Dando 2500

Level : 81.20m AoD

Logged By  
LT

Checked By  
JC

Approved By  
MP

SPT Energy Ratio  
67%

Final Depth  
8.00m

| Install. /<br>Back fill | Water<br>Strikes | Sample and In Situ Testing |      |         | Depth<br>(m) | Level<br>(m) | Legend | Stratum Description | Scale |
|-------------------------|------------------|----------------------------|------|---------|--------------|--------------|--------|---------------------|-------|
|                         |                  | Depth (m)                  | Type | Results |              |              |        |                     |       |
|                         |                  |                            |      |         |              |              |        |                     | 20    |
|                         |                  |                            |      |         |              |              |        |                     | 21    |
|                         |                  |                            |      |         |              |              |        |                     | 22    |
|                         |                  |                            |      |         |              |              |        |                     | 23    |
|                         |                  |                            |      |         |              |              |        |                     | 24    |
|                         |                  |                            |      |         |              |              |        |                     | 25    |
|                         |                  |                            |      |         |              |              |        |                     | 26    |
|                         |                  |                            |      |         |              |              |        |                     | 27    |
|                         |                  |                            |      |         |              |              |        |                     | 28    |
|                         |                  |                            |      |         |              |              |        |                     | 29    |

| Hole Diameter |          | Casing Diameter |                | Chiselling |            |          |      | Inclination and Orientation |      |             |             | Installation   |                |                  |          |
|---------------|----------|-----------------|----------------|------------|------------|----------|------|-----------------------------|------|-------------|-------------|----------------|----------------|------------------|----------|
| Depth Base    | Diameter | Depth Base      | Diameter       | Depth Top  | Depth Base | Duration | Tool | Top                         | Base | Inclination | Orientation | Top            | Base           | Pipe Type        | Diameter |
| 8.00m         | 200mm    | 1.20m<br>8.00m  | 200mm<br>150mm |            |            |          |      |                             |      |             |             | 0.00m<br>1.30m | 1.30m<br>3.00m | PLAIN<br>SLOTTED |          |

## Remarks

Logging has been undertaken to provide an approximate volumetric percentage of the various constituents present. Cable percussion clean drilling method utilised. 8 inch casing used until 1.2m, where a bentonite seal was placed then 6 inch casing until 8m.

# Cable Percussive Borehole Log

BOREHOLE REFERENCE

**CP113**

Sheet 4 of 5

|                              |                                |                                |
|------------------------------|--------------------------------|--------------------------------|
| Project Name: Ten Acres Lane | Client: NUVU Developments Ltd  | Date: 08/10/2020 - 09/10/2020  |
| Location: Newton Heath       | Contractor: Geotron            | Co-ords: E387534.31 N400109.85 |
| Project No. : LD10385        | Drilling Equipment: Dando 2500 | Level : 81.20m AoD             |

|                 |                  |                   |                         |                      |
|-----------------|------------------|-------------------|-------------------------|----------------------|
| Logged By<br>LT | Checked By<br>JC | Approved By<br>MP | SPT Energy Ratio<br>67% | Final Depth<br>8.00m |
|-----------------|------------------|-------------------|-------------------------|----------------------|

| Install. /<br>Back fill | Water<br>Strikes | Sample and In Situ Testing |      |         | Depth<br>(m) | Level<br>(m) | Legend | Stratum Description | Scale |
|-------------------------|------------------|----------------------------|------|---------|--------------|--------------|--------|---------------------|-------|
|                         |                  | Depth (m)                  | Type | Results |              |              |        |                     |       |
|                         |                  |                            |      |         |              |              |        |                     | 30    |
|                         |                  |                            |      |         |              |              |        |                     | 31    |
|                         |                  |                            |      |         |              |              |        |                     | 32    |
|                         |                  |                            |      |         |              |              |        |                     | 33    |
|                         |                  |                            |      |         |              |              |        |                     | 34    |
|                         |                  |                            |      |         |              |              |        |                     | 35    |
|                         |                  |                            |      |         |              |              |        |                     | 36    |
|                         |                  |                            |      |         |              |              |        |                     | 37    |
|                         |                  |                            |      |         |              |              |        |                     | 38    |
|                         |                  |                            |      |         |              |              |        |                     | 39    |

| Hole Diameter |          | Casing Diameter |                | Chiselling |            |          |      | Inclination and Orientation |      |             |             | Installation   |                |                  |          |
|---------------|----------|-----------------|----------------|------------|------------|----------|------|-----------------------------|------|-------------|-------------|----------------|----------------|------------------|----------|
| Depth Base    | Diameter | Depth Base      | Diameter       | Depth Top  | Depth Base | Duration | Tool | Top                         | Base | Inclination | Orientation | Top            | Base           | Pipe Type        | Diameter |
| 8.00m         | 200mm    | 1.20m<br>8.00m  | 200mm<br>150mm |            |            |          |      |                             |      |             |             | 0.00m<br>1.30m | 1.30m<br>3.00m | PLAIN<br>SLOTTED |          |

**Remarks**  
Logging has been undertaken to provide an approximate volumetric percentage of the various constituents present. Cable percussion clean drilling method utilised. 8 inch casing used until 1.2m, where a bentonite seal was placed then 6 inch casing until 8m.

# Cable Percussive Borehole Log

BOREHOLE REFERENCE  
**CP113**  
Sheet 5 of 5

|                              |                                |                                |
|------------------------------|--------------------------------|--------------------------------|
| Project Name: Ten Acres Lane | Client: NUVU Developments Ltd  | Date: 08/10/2020 - 09/10/2020  |
| Location: Newton Heath       | Contractor: Geotron            | Co-ords: E387534.31 N400109.85 |
| Project No. : LD10385        | Drilling Equipment: Dando 2500 | Level : 81.20m AoD             |

|                 |                  |                   |                         |                      |
|-----------------|------------------|-------------------|-------------------------|----------------------|
| Logged By<br>LT | Checked By<br>JC | Approved By<br>MP | SPT Energy Ratio<br>67% | Final Depth<br>8.00m |
|-----------------|------------------|-------------------|-------------------------|----------------------|

| Instal. /<br>Back fill | Water<br>Strikes | Sample and In Situ Testing |      |         | Depth<br>(m) | Level<br>(m) | Legend | Stratum Description | Scale |
|------------------------|------------------|----------------------------|------|---------|--------------|--------------|--------|---------------------|-------|
|                        |                  | Depth (m)                  | Type | Results |              |              |        |                     |       |
|                        |                  |                            |      |         |              |              |        |                     | 40    |
|                        |                  |                            |      |         |              |              |        |                     | 41    |
|                        |                  |                            |      |         |              |              |        |                     | 42    |
|                        |                  |                            |      |         |              |              |        |                     | 43    |
|                        |                  |                            |      |         |              |              |        |                     | 44    |
|                        |                  |                            |      |         |              |              |        |                     | 45    |
|                        |                  |                            |      |         |              |              |        |                     | 46    |
|                        |                  |                            |      |         |              |              |        |                     | 47    |
|                        |                  |                            |      |         |              |              |        |                     | 48    |

| Hole Diameter |          | Casing Diameter |                | Chiselling |            |          |      | Inclination and Orientation |      |             |             | Installation   |                |                  |          |
|---------------|----------|-----------------|----------------|------------|------------|----------|------|-----------------------------|------|-------------|-------------|----------------|----------------|------------------|----------|
| Depth Base    | Diameter | Depth Base      | Diameter       | Depth Top  | Depth Base | Duration | Tool | Top                         | Base | Inclination | Orientation | Top            | Base           | Pipe Type        | Diameter |
| 8.00m         | 200mm    | 1.20m<br>8.00m  | 200mm<br>150mm |            |            |          |      |                             |      |             |             | 0.00m<br>1.30m | 1.30m<br>3.00m | PLAIN<br>SLOTTED |          |

**Remarks**  
Logging has been undertaken to provide an approximate volumetric percentage of the various constituents present. Cable percussion clean drilling method utilised. 8 inch casing used until 1.2m, where a bentonite seal was placed then 6 inch casing until 8m.

# Cable Percussive Borehole Log

BOREHOLE REFERENCE  
**CP114/RH108**  
Sheet 1 of 4

|                              |                  |                                              |                         |                                |  |
|------------------------------|------------------|----------------------------------------------|-------------------------|--------------------------------|--|
| Project Name: Ten Acres Lane |                  | Client: NUVU Developments Ltd                |                         | Date: 29/10/2020 - 04/11/2020  |  |
| Location: Newton Heath       |                  | Contractor: Geotron                          |                         | Co-ords: E387847.93 N400452.83 |  |
| Project No. : LD10385        |                  | Drilling Equipment: Dando 2500+Comacchio 205 |                         | Level : 85.45m AoD             |  |
| Logged By<br>ZH              | Checked By<br>JC | Approved By<br>MP                            | SPT Energy Ratio<br>67% | Final Depth<br>28.00m          |  |

| Install. / Backfill | Water Strikes | Sample and In Situ Testing         |              |                        | Depth (m)    | Level (m)      | Legend | Stratum Description                                                                                                                                                                                                                                                                 | Scale |
|---------------------|---------------|------------------------------------|--------------|------------------------|--------------|----------------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|                     |               | Depth (m)                          | Type         | Results                |              |                |        |                                                                                                                                                                                                                                                                                     |       |
|                     |               | 0.00 – 1.00<br>0.00 – 1.00         | ES           |                        |              |                |        | Recovered as soft, grey, slightly sandy, slightly gravelly CLAY with occasional roots and rootlets. Gravel is subangular to subrounded of fine to coarse red brick (20%), timber (20%), ceramic (10%), glass (5%), and mixed natural lithologies (55%). Sand is fine to medium. TF  |       |
|                     |               | 0.50                               |              | 0.10ppmv               |              |                |        |                                                                                                                                                                                                                                                                                     |       |
|                     |               | 1.00                               | SPT(S)       | N=3 (0,0/1,0,1,1)      | 1.10<br>1.30 | 84.35<br>84.15 |        | Soft, brown, mottled light grey, slightly gravelly CLAY. Gravel is angular of fine shale. CGT                                                                                                                                                                                       | 1     |
|                     |               | 2.00 – 3.00<br>2.00                | B<br>SPT(S)  | N=7 (1,1/2,1,1,3)      |              |                |        | Firm to stiff, soft where wet, brown, mottled grey and orangish brown, slightly sandy, slightly gravelly CLAY with occasional silt lenses. Sand is fine. Gravel is subangular to rounded of fine to coarse pebbles, crystalline rocks, sandstone, siltstone, and red sandstone. CGT | 2     |
|                     |               | 3.00                               | SPT(S)       | N=18 (2,3/3,4,5,6)     |              |                |        | 3.00m - 3.45m : Occasional plant remains.                                                                                                                                                                                                                                           | 3     |
|                     |               | 4.00                               | SPT(S)       | N=8 (1,1/2,2,2,2)      |              |                |        |                                                                                                                                                                                                                                                                                     | 4     |
|                     |               | 5.00 – 6.00<br>5.00 – 6.00<br>5.00 | ES<br>SPT(S) | N=9 (1,1/2,2,2,3)      |              |                |        |                                                                                                                                                                                                                                                                                     | 5     |
|                     |               | 5.50                               |              | 0.00ppmv               |              |                |        |                                                                                                                                                                                                                                                                                     |       |
|                     |               | 6.00 – 7.00                        | B            |                        |              |                |        |                                                                                                                                                                                                                                                                                     | 6     |
|                     |               | 6.60                               | SPT(S)       | N=44 (3,4/4,9,13,18)   | 6.60         | 78.85          |        | Dense, wet, brown, fine to coarse, slightly gravelly, clayey SAND. Gravel is subangular to subrounded of fine to coarse mixed natural lithologies. GGT                                                                                                                              | 7     |
|                     |               | 8.00 – 9.00<br>8.00                | ES<br>SPT(S) | N=10 (1,2/2,2,2,4)     | 8.00         | 77.45          |        | Medium dense, damp, brown, fine to coarse, slightly gravelly SAND. Gravel is subangular to subrounded of fine to coarse mixed natural lithologies. GGT                                                                                                                              | 8     |
|                     |               | 8.50                               |              | 0.20ppmv               |              |                |        |                                                                                                                                                                                                                                                                                     |       |
|                     |               | 9.00 – 10.00                       | B            |                        |              |                |        |                                                                                                                                                                                                                                                                                     | 9     |
|                     |               | 9.50                               | SPT(S)       | N=50 (3,10/15,25,10,0) | 9.80         | 75.65          |        | 9.50m - 10.00m : Occasional medium gravel sized inclusions of soft, brown CLAY.                                                                                                                                                                                                     |       |

| Hole Diameter |          | Casing Diameter |          | Chiselling |            |          |      | Inclination and Orientation |      |             |             | Installation    |                  |                  |          |
|---------------|----------|-----------------|----------|------------|------------|----------|------|-----------------------------|------|-------------|-------------|-----------------|------------------|------------------|----------|
| Depth Base    | Diameter | Depth Base      | Diameter | Depth Top  | Depth Base | Duration | Tool | Top                         | Base | Inclination | Orientation | Top             | Base             | Pipe Type        | Diameter |
| 10.50m        | 200mm    | 11.00m          | 200mm    |            |            |          |      |                             |      |             |             | 0.00m<br>26.00m | 26.00m<br>27.80m | PLAIN<br>SLOTTED |          |

**Remarks**  
Logging has been undertaken to provide an approximate volumetric percentage of the various constituents present. Cable percussion method utilised until 10.95m and then rotary open hole follow on through a bentonite seal from 10.95m to 28m.

# Cable Percussive Borehole Log

BOREHOLE REFERENCE  
**CP114/RH108**  
Sheet 2 of 4

|                              |                  |                                              |                         |                                |  |
|------------------------------|------------------|----------------------------------------------|-------------------------|--------------------------------|--|
| Project Name: Ten Acres Lane |                  | Client: NUVU Developments Ltd                |                         | Date: 29/10/2020 - 04/11/2020  |  |
| Location: Newton Heath       |                  | Contractor: Geotron                          |                         | Co-ords: E387847.93 N400452.83 |  |
| Project No. : LD10385        |                  | Drilling Equipment: Dando 2500+Comacchio 205 |                         | Level : 85.45m AoD             |  |
| Logged By<br>ZH              | Checked By<br>JC | Approved By<br>MP                            | SPT Energy Ratio<br>67% | Final Depth<br>28.00m          |  |

| Install. / Backfill | Water Strikes | Sample and In Situ Testing |      |         | Depth (m) | Level (m) | Legend | Stratum Description                                        | Scale |
|---------------------|---------------|----------------------------|------|---------|-----------|-----------|--------|------------------------------------------------------------|-------|
|                     |               | Depth (m)                  | Type | Results |           |           |        |                                                            |       |
|                     |               |                            |      |         | 10.95     | 74.50     |        | Very dense, damp, orangish brown, fine to coarse SAND. GGT | 10    |
|                     |               |                            |      |         |           |           |        | See Next Page for Geological Information                   | 11    |
|                     |               |                            |      |         |           |           |        |                                                            | 12    |
|                     |               |                            |      |         |           |           |        |                                                            | 13    |
|                     |               |                            |      |         |           |           |        |                                                            | 14    |
|                     |               |                            |      |         |           |           |        | See Next Page for Geological Information                   | 15    |
|                     |               |                            |      |         |           |           |        |                                                            | 16    |
|                     |               |                            |      |         |           |           |        |                                                            | 17    |
|                     |               |                            |      |         |           |           |        | See Next Page for Geological Information                   | 18    |
|                     |               |                            |      |         |           |           |        |                                                            | 19    |

| Hole Diameter |          | Casing Diameter |          | Chiselling |            |          |      | Inclination and Orientation |      |             |             | Installation    |                  |                  |          |
|---------------|----------|-----------------|----------|------------|------------|----------|------|-----------------------------|------|-------------|-------------|-----------------|------------------|------------------|----------|
| Depth Base    | Diameter | Depth Base      | Diameter | Depth Top  | Depth Base | Duration | Tool | Top                         | Base | Inclination | Orientation | Top             | Base             | Pipe Type        | Diameter |
| 10.50m        | 200mm    | 11.00m          | 200mm    |            |            |          |      |                             |      |             |             | 0.00m<br>26.00m | 26.00m<br>27.80m | PLAIN<br>SLOTTED |          |

**Remarks**  
Logging has been undertaken to provide an approximate volumetric percentage of the various constituents present. Cable percussion method utilised until 10.95m and then rotary open hole follow on through a bentonite seal from 10.95m to 28m.

# Rotary Cored Borehole Log

BOREHOLE REFERENCE  
**CP114/RH108**  
Sheet 3 of 4

|                              |                                              |                                           |
|------------------------------|----------------------------------------------|-------------------------------------------|
| Project Name: Ten Acres Lane | Client: NUVU Developments Ltd                | Date: 29/10/2020 - 04/11/2020             |
| Location: Newton Heath       | Contractor: Geotron                          | Co-ords: E387847.93 N400452.83            |
| Project No. : LD10385        | Drilling Equipment: Dando 2500+Comacchio 205 | Level : 85.45m AoD<br>Final Depth: 28.00m |

|                 |                  |                   |          |             |
|-----------------|------------------|-------------------|----------|-------------|
| Logged By<br>ZH | Checked By<br>JC | Approved By<br>MP | Bit Type | Core Barrel |
|-----------------|------------------|-------------------|----------|-------------|

| Instal. / Backfill | Water Strikes | Depth (m) | Type / FI | Coring |     |     | Diameter Recovery (SPT) | Depth (m) | Level (m) | Legend | Stratum Description                          | Scale |
|--------------------|---------------|-----------|-----------|--------|-----|-----|-------------------------|-----------|-----------|--------|----------------------------------------------|-------|
|                    |               |           |           | TCR    | SCR | RQD |                         |           |           |        |                                              |       |
|                    |               |           |           |        |     |     |                         |           |           |        | See Previous Page for Geological Information | 10    |
|                    |               |           |           |        |     |     |                         |           |           |        | Driller notes SAND. GGT                      | 11    |
|                    |               |           |           |        |     |     |                         |           |           |        |                                              | 12    |
|                    |               |           |           |        |     |     |                         |           |           |        |                                              | 13    |
|                    |               |           |           |        |     |     |                         |           |           |        |                                              | 14    |
|                    |               |           |           |        |     |     |                         | 15.00     | 70.45     |        | Driller notes GRAVEL. GGT                    | 15    |
|                    |               |           |           |        |     |     |                         |           |           |        |                                              | 16    |
|                    |               |           |           |        |     |     |                         |           |           |        |                                              | 17    |
|                    |               |           |           |        |     |     |                         | 18.00     | 67.45     |        | Driller notes consolidated CLAY. CGT         | 18    |
|                    |               |           |           |        |     |     |                         |           |           |        |                                              | 19    |

| Hole Diameter |          | Casing Diameter |          | Chiselling |      |          |      | Inclination and Orientation |      |             |             | Drilling Flush |      |      |        |         |         | Installation    |                  |                  |          |
|---------------|----------|-----------------|----------|------------|------|----------|------|-----------------------------|------|-------------|-------------|----------------|------|------|--------|---------|---------|-----------------|------------------|------------------|----------|
| Base          | Diameter | Base            | Diameter | Top        | Base | Duration | Tool | Top                         | Base | Inclination | Orientation | Top            | Base | Type | Colour | Min (%) | Max (%) | Top             | Base             | Pipe Type        | Diameter |
| 10.50m        | 200mm    | 11.00m          | 200mm    |            |      |          |      |                             |      |             |             |                |      |      |        |         |         | 0.00m<br>26.00m | 26.00m<br>27.80m | PLAIN<br>SLOTTED |          |

**General Remarks**  
Logging has been undertaken to provide an approximate volumetric percentage of the various constituents present. Cable percussion method utilised until 10.95m and then rotary open hole follow on through a bentonite seal from 10.95m to 28m.

# Rotary Cored Borehole Log

BOREHOLE REFERENCE  
**CP114/RH108**  
Sheet 4 of 4

|                              |                                              |                                           |
|------------------------------|----------------------------------------------|-------------------------------------------|
| Project Name: Ten Acres Lane | Client: NUVU Developments Ltd                | Date: 29/10/2020 - 04/11/2020             |
| Location: Newton Heath       | Contractor: Geotron                          | Co-ords: E387847.93 N400452.83            |
| Project No. : LD10385        | Drilling Equipment: Dando 2500+Comacchio 205 | Level : 85.45m AoD<br>Final Depth: 28.00m |
| Logged By<br>ZH              | Checked By<br>JC                             | Approved By<br>MP                         |
| Bit Type                     |                                              | Core Barrel                               |

| Instal. / Backfill | Water Strikes | Depth (m) | Type / FI | Coring |     |     | Diameter Recovery (SPT) | Depth (m) | Level (m) | Legend | Stratum Description                                                                                                                                                              | Scale |
|--------------------|---------------|-----------|-----------|--------|-----|-----|-------------------------|-----------|-----------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|                    |               |           |           | TCR    | SCR | RQD |                         |           |           |        |                                                                                                                                                                                  |       |
|                    |               |           |           |        |     |     |                         | 22.00     | 63.45     |        | Driller notes consolidated CLAY. CGT                                                                                                                                             | 20    |
|                    |               |           |           |        |     |     |                         |           |           |        |                                                                                                                                                                                  | 21    |
|                    |               |           |           |        |     |     |                         |           |           |        | Driller notes boulder CLAY. CGT                                                                                                                                                  | 22    |
|                    |               |           |           |        |     |     |                         |           |           |        |                                                                                                                                                                                  | 23    |
|                    |               |           |           |        |     |     |                         |           |           |        |                                                                                                                                                                                  | 24    |
|                    |               |           |           |        |     |     |                         |           |           |        |                                                                                                                                                                                  | 25    |
|                    |               |           |           |        |     |     |                         | 26.00     | 59.45     |        | Recovered as damp, reddish brown, slightly gravelly, fine to coarse SAND. Gravel is subangular to rounded of fine to coarse sandstone, quartz and mixed natural lithologies. GGT | 26    |
|                    |               |           |           |        |     |     |                         |           |           |        |                                                                                                                                                                                  | 27    |
|                    |               |           |           |        |     |     |                         | 28.00     | 57.45     |        | End of Borehole at 28.00m                                                                                                                                                        | 28    |
|                    |               |           |           |        |     |     |                         |           |           |        |                                                                                                                                                                                  | 29    |

| Hole Diameter |          | Casing Diameter |          | Chiselling |      |          |      | Inclination and Orientation |      |             |             | Drilling Flush |      |      |        |         |         | Installation    |                  |                  |          |
|---------------|----------|-----------------|----------|------------|------|----------|------|-----------------------------|------|-------------|-------------|----------------|------|------|--------|---------|---------|-----------------|------------------|------------------|----------|
| Base          | Diameter | Base            | Diameter | Top        | Base | Duration | Tool | Top                         | Base | Inclination | Orientation | Top            | Base | Type | Colour | Min (%) | Max (%) | Top             | Base             | Pipe Type        | Diameter |
| 10.50m        | 200mm    | 11.00m          | 200mm    |            |      |          |      |                             |      |             |             |                |      |      |        |         |         | 0.00m<br>26.00m | 26.00m<br>27.80m | PLAIN<br>SLOTTED |          |
|               |          |                 |          |            |      |          |      |                             |      |             |             |                |      |      |        |         |         |                 |                  |                  |          |

**General Remarks**  
Logging has been undertaken to provide an approximate volumetric percentage of the various constituents present. Cable percussion method utilised until 10.95m and then rotary open hole follow on through a bentonite seal from 10.95m to 28m.

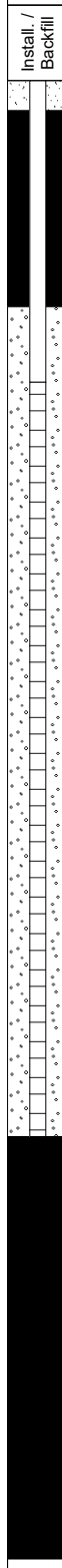
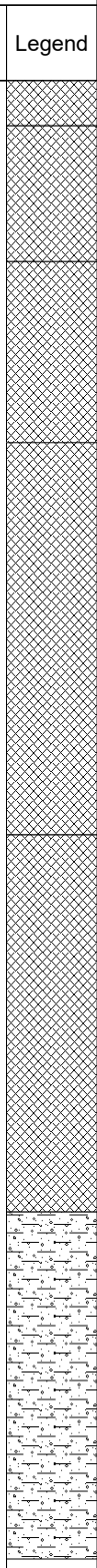
Log printed on 13/09/2022 at 13:09

# Cable Percussive Borehole Log

BOREHOLE REFERENCE  
**CP201**  
Sheet 1 of 3

|                              |                                |                                |
|------------------------------|--------------------------------|--------------------------------|
| Project Name: Ten Acres Lane | Client: NUVU Developments Ltd  | Date: 15/03/2022 - 18/03/2022  |
| Location: Newton Heath       | Contractor: Geotron Ltd        | Co-ords: E387475.67 N400304.35 |
| Project No. : LD10385        | Drilling Equipment: Dando 2500 | Level : 82.55m AoD             |

|                      |                  |                   |                         |                       |
|----------------------|------------------|-------------------|-------------------------|-----------------------|
| Logged By<br>JC & JP | Checked By<br>JC | Approved By<br>MP | SPT Energy Ratio<br>65% | Final Depth<br>19.95m |
|----------------------|------------------|-------------------|-------------------------|-----------------------|

| Install. / Backfill                                                                | Water Strikes                                                                      | Sample and In Situ Testing |             |                    | Depth (m) | Level (m) | Legend                                                                             | Stratum Description                                                                                                                                                                                                                                                                                       | Scale                                                                                |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|----------------------------|-------------|--------------------|-----------|-----------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|                                                                                    |                                                                                    | Depth (m)                  | Type        | Results            |           |           |                                                                                    |                                                                                                                                                                                                                                                                                                           |                                                                                      |
|  |  | 0.20 – 1.20                | B           |                    | 0.30      | 82.25     |  | Recovered as dark brown, gravelly, very clayey, fine to medium SAND with occasional cobble sized fragments of red brick, concrete and ceramics. Gravel is angular of fine to coarse red brick, ceramic and concrete.<br>TF                                                                                |  |
|                                                                                    |                                                                                    | 1.50 – 2.50<br>1.50        | B<br>SPT(S) | N=4 (2,1/1,1,1,1)  | 1.20      | 81.35     |                                                                                    | Recovered as soft to firm, dark brown, slightly gravelly, sandy CLAY with frequent cobble sized fragments of red brick and concrete. Gravel is angular of fine to medium red brick, bitumen and concrete. Hydrocarbon / bitumen odour.<br>CMG                                                             |                                                                                      |
|                                                                                    |                                                                                    | 2.50                       | SPT(S)      | N=7 (2,1/1,1,2,3)  | 2.40      | 80.15     |                                                                                    | Recovered as damp, dark brownish grey, gravelly, very clayey, fine to medium SAND with occasional cobble sized fragments of red brick, plastic, glass and concrete. Hydrocarbon odour.<br>GMG                                                                                                             |                                                                                      |
|                                                                                    |                                                                                    | 3.00 – 4.00                | B           |                    |           |           |                                                                                    | Recovered as wet, dark grey, sandy GRAVEL with occasional cobble sized fragments of red brick, glass and timber. Gravel is angular to subrounded of fine to coarse suspected clinker, glass, timber, plastic and shale. Hydrocarbon odour.<br>GMG<br>3.00m : Becoming very sandy from 3.00m.              |                                                                                      |
|                                                                                    |                                                                                    | 4.50                       | SPT(S)      | N=7 (3,10/1,1,2,3) |           |           |                                                                                    | 4.50m : Strong hydrocarbon odour from 4.50m.                                                                                                                                                                                                                                                              |                                                                                      |
|                                                                                    |                                                                                    | 5.00 – 6.00                | B           |                    | 5.00      | 77.55     |                                                                                    | Recovered as wet, black, very sandy GRAVEL with occasional cobble sized fragments of metal and red brick. Gravel is angular to subrounded of fine to coarse red brick, glass, concrete, shale and suspected clinker. Occasional cobble sized plastic sheeting fragments. Strong hydrocarbon odour.<br>GMG |                                                                                      |
|                                                                                    |                                                                                    | 6.00                       | SPT(S)      | N=19 (5,1/3,4,5,7) |           |           |                                                                                    | 6.00m - 6.45m : Recovered as clayey between 6.00m and 6.45m.                                                                                                                                                                                                                                              |                                                                                      |
|                                                                                    |                                                                                    | 7.50 – 8.40<br>7.50        | B<br>SPT(S) | N=12 (1,1/2,2,3,5) | 7.50      | 75.05     |                                                                                    | Recovered a soft to firm, probably firm to stiff as recovered from the SPT tool, wet, brown, slightly sandy, slightly gravelly CLAY. Gravel is subangular to subrounded of fine to coarse mixed natural lithologies.<br>CGT                                                                               |                                                                                      |
|                                                                                    |                                                                                    | 8.20 – 9.00                | B           |                    |           |           |                                                                                    |                                                                                                                                                                                                                                                                                                           |                                                                                      |
|                                                                                    |                                                                                    | 9.00                       | SPT(S)      | N=28 (5,5/6,7,7,8) |           |           |                                                                                    |                                                                                                                                                                                                                                                                                                           |                                                                                      |
|                                                                                    |                                                                                    | 9.50 – 10.20               | B           |                    |           |           |                                                                                    |                                                                                                                                                                                                                                                                                                           |                                                                                      |

| Hole Diameter |          | Casing Diameter |          | Chiselling |            |          |      | Inclination and Orientation |      |             |             | Installation |       |                  |              |
|---------------|----------|-----------------|----------|------------|------------|----------|------|-----------------------------|------|-------------|-------------|--------------|-------|------------------|--------------|
| Depth Base    | Diameter | Depth Base      | Diameter | Depth Top  | Depth Base | Duration | Tool | Top                         | Base | Inclination | Orientation | Top          | Base  | Pipe Type        | Diameter     |
| 19.95m        | 200mm    | 8.50m           | 200mm    | 12.00m     | 15.00m     | 04:00    |      |                             |      |             |             | 0.00m        | 2.00m | PLAIN<br>SLOTTED | 50mm<br>50mm |
|               |          |                 |          | 15.00m     | 16.00m     | 02:00    |      |                             |      |             |             | 2.00m        | 7.00m |                  |              |
|               |          |                 |          | 16.70m     | 16.95m     | 01:25    |      |                             |      |             |             |              |       |                  |              |
|               |          |                 |          | 16.95m     | 18.00m     | 02:00    |      |                             |      |             |             |              |       |                  |              |
|               |          |                 |          | 18.00m     | 19.00m     | 01:00    |      |                             |      |             |             |              |       |                  |              |
|               |          |                 |          |            |            |          |      |                             |      |             |             |              |       |                  |              |

Remarks  
Inspection pit hand dug to 1.20m bgl.  
Approximate percentage by volume quantifiers as follows; rare (<5%), occasional (5-20%), frequent (20-40%) and abundant (>40%).  
Borehole terminated as target depth achieved and / or no significant sand lenses encountered at depth.

# Cable Percussive Borehole Log

BOREHOLE REFERENCE  
**CP201**  
Sheet 2 of 3

|                              |                                |                                |
|------------------------------|--------------------------------|--------------------------------|
| Project Name: Ten Acres Lane | Client: NUVU Developments Ltd  | Date: 15/03/2022 - 18/03/2022  |
| Location: Newton Heath       | Contractor: Geotron Ltd        | Co-ords: E387475.67 N400304.35 |
| Project No. : LD10385        | Drilling Equipment: Dando 2500 | Level : 82.55m AoD             |

|                      |                  |                   |                         |                       |
|----------------------|------------------|-------------------|-------------------------|-----------------------|
| Logged By<br>JC & JP | Checked By<br>JC | Approved By<br>MP | SPT Energy Ratio<br>65% | Final Depth<br>19.95m |
|----------------------|------------------|-------------------|-------------------------|-----------------------|

| Instal. /<br>Backfill | Water<br>Strikes | Sample and In Situ Testing |             |                               | Depth<br>(m) | Level<br>(m) | Legend | Stratum Description                                                                                                                                                                                                           | Scale |
|-----------------------|------------------|----------------------------|-------------|-------------------------------|--------------|--------------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|                       |                  | Depth (m)                  | Type        | Results                       |              |              |        |                                                                                                                                                                                                                               |       |
|                       |                  | 9.95                       |             |                               | 9.95         | 72.60        |        | Recovered a soft to firm, probably firm to stiff as recovered from the SPT tool, wet, brown, slightly sandy, slightly gravelly CLAY. Gravel is subangular to subrounded of fine to coarse mixed natural lithologies.<br>CGT   | 10    |
|                       |                  | 10.50                      | SPT(S)      | N=30 (3,4/4,6,10,10)          |              |              |        | Recovered as soft to stiff, probably stiff to very stiff as recovered from the SPT tool, wet, brown, slightly sandy CLAY with rare subangular to subrounded, fine to medium gravel of mixed lithologies.<br>CGT               | 11    |
|                       |                  | 11.00 – 11.30              | B           |                               |              |              |        |                                                                                                                                                                                                                               |       |
|                       |                  | 12.00                      | SPT(S)      | N=50 (6,7/7,14,13,16)         |              |              |        | 12.00m : Becoming slightly gravelly from 12.00m.                                                                                                                                                                              | 12    |
|                       |                  | 12.50 – 13.00              | B           |                               |              |              |        |                                                                                                                                                                                                                               | 13    |
|                       |                  | 14.00                      | SPT(S)      | N=50 (5,6/11,13,13,13)        | 14.00        | 68.55        |        | Recovered as soft to firm, probably stiff to very stiff as recovered from the SPT tool, wet, dark brown, slightly sandy, slightly gravelly CLAY. Gravel is subrounded to rounded, fine to medium of mixed lithologies.<br>CGT | 14    |
|                       |                  | 14.50 – 15.00              | B           |                               |              |              |        |                                                                                                                                                                                                                               |       |
|                       |                  | 15.00 – 16.00<br>15.00     | B<br>SPT(S) | N=50 (6,6/10,15,15,10)        | 15.00        | 67.55        |        | Very stiff to hard, dark brown, slightly sandy, slightly gravelly CLAY. Gravel is subangular of fine to medium mixed natural lithologies.<br>CGT                                                                              | 15    |
|                       |                  | 16.50                      | SPT(S)      | 50 (6,10/15,15,20 for 50mm)   |              |              |        |                                                                                                                                                                                                                               | 16    |
|                       |                  | 16.70                      | D           |                               | 16.70        | 65.85        |        | Driller notes grey / brown hard rock. Possibly a very large boulder within very stiff to hard, dark brown, slightly sandy, slightly gravelly CLAY. Gravel as above and below.<br>CGT                                          | 17    |
|                       |                  | 17.45                      |             |                               | 17.45        | 65.10        |        | Very stiff to hard, dark brown, slightly sandy, slightly gravelly CLAY. Gravel is subangular to subrounded of fine to medium mixed natural lithologies.<br>CGT                                                                | 18    |
|                       |                  | 18.00                      | SPT(S)      | N=50 (7,8/10,12,12,16)        |              |              |        |                                                                                                                                                                                                                               | 19    |
|                       |                  | 19.50                      | SPT(S)      | 50 (6,12/15,20,15 for 37.5mm) |              |              |        | 19.50m - 19.95m : Recovered as soft to stiff between 19.50m and 19.95m.                                                                                                                                                       |       |

| Hole Diameter |          | Casing Diameter |          | Chiselling |            |          |      | Inclination and Orientation |      |             |             | Installation |       |                  |              |
|---------------|----------|-----------------|----------|------------|------------|----------|------|-----------------------------|------|-------------|-------------|--------------|-------|------------------|--------------|
| Depth Base    | Diameter | Depth Base      | Diameter | Depth Top  | Depth Base | Duration | Tool | Top                         | Base | Inclination | Orientation | Top          | Base  | Pipe Type        | Diameter     |
| 19.95m        | 200mm    | 8.50m           | 200mm    | 12.00m     | 15.00m     | 04:00    |      |                             |      |             |             | 0.00m        | 2.00m | PLAIN<br>SLOTTED | 50mm<br>50mm |
|               |          |                 |          | 15.00m     | 16.00m     | 02:00    |      |                             |      |             |             | 2.00m        | 7.00m |                  |              |
|               |          |                 |          | 16.70m     | 16.95m     | 01:25    |      |                             |      |             |             |              |       |                  |              |
|               |          |                 |          | 16.95m     | 18.00m     | 02:00    |      |                             |      |             |             |              |       |                  |              |
|               |          |                 |          | 18.00m     | 19.00m     | 01:00    |      |                             |      |             |             |              |       |                  |              |
|               |          |                 |          |            |            |          |      |                             |      |             |             |              |       |                  |              |

Remarks  
Inspection pit hand dug to 1.20m bgl.  
Approximate percentage by volume quantifiers as follows; rare (<5%), occasional (5-20%), frequent (20-40%) and abundant (>40%).  
Borehole terminated as target depth achieved and / or no significant sand lenses encountered at depth.

# Cable Percussive Borehole Log

BOREHOLE REFERENCE

**CP201**

Sheet 3 of 3

|                              |                  |                                |                         |                                |  |
|------------------------------|------------------|--------------------------------|-------------------------|--------------------------------|--|
| Project Name: Ten Acres Lane |                  | Client: NUVU Developments Ltd  |                         | Date: 15/03/2022 - 18/03/2022  |  |
| Location: Newton Heath       |                  | Contractor: Geotron Ltd        |                         | Co-ords: E387475.67 N400304.35 |  |
| Project No. : LD10385        |                  | Drilling Equipment: Dando 2500 |                         | Level : 82.55m AoD             |  |
| Logged By<br>JC & JP         | Checked By<br>JC | Approved By<br>MP              | SPT Energy Ratio<br>65% | Final Depth<br>19.95m          |  |

| Instal. /<br>Backfill | Water<br>Strikes | Sample and In Situ Testing |      |         | Depth<br>(m) | Level<br>(m) | Legend | Stratum Description                                                                                                                                                                         | Scale |
|-----------------------|------------------|----------------------------|------|---------|--------------|--------------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|                       |                  | Depth (m)                  | Type | Results |              |              |        |                                                                                                                                                                                             |       |
|                       |                  |                            |      |         | 19.95        | 62.60        |        | Very stiff to hard, dark brown, slightly sandy, slightly gravelly CLAY. Gravel is subangular to subrounded of fine to medium mixed natural lithologies.<br>CGT<br>End of Borehole at 19.95m | 20    |
|                       |                  |                            |      |         |              |              |        |                                                                                                                                                                                             | 21    |
|                       |                  |                            |      |         |              |              |        |                                                                                                                                                                                             | 22    |
|                       |                  |                            |      |         |              |              |        |                                                                                                                                                                                             | 23    |
|                       |                  |                            |      |         |              |              |        |                                                                                                                                                                                             | 24    |
|                       |                  |                            |      |         |              |              |        |                                                                                                                                                                                             | 25    |
|                       |                  |                            |      |         |              |              |        |                                                                                                                                                                                             | 26    |
|                       |                  |                            |      |         |              |              |        |                                                                                                                                                                                             | 27    |
|                       |                  |                            |      |         |              |              |        |                                                                                                                                                                                             | 28    |
|                       |                  |                            |      |         |              |              |        |                                                                                                                                                                                             | 29    |

| Hole Diameter |          | Casing Diameter |          | Chiselling                                     |                                                |                                           |      | Inclination and Orientation |      |             |             | Installation   |                |                  |              |
|---------------|----------|-----------------|----------|------------------------------------------------|------------------------------------------------|-------------------------------------------|------|-----------------------------|------|-------------|-------------|----------------|----------------|------------------|--------------|
| Depth Base    | Diameter | Depth Base      | Diameter | Depth Top                                      | Depth Base                                     | Duration                                  | Tool | Top                         | Base | Inclination | Orientation | Top            | Base           | Pipe Type        | Diameter     |
| 19.95m        | 200mm    | 8.50m           | 200mm    | 12.00m<br>15.00m<br>16.70m<br>16.95m<br>18.00m | 15.00m<br>16.00m<br>16.95m<br>18.00m<br>19.00m | 04:00<br>02:00<br>01:25<br>02:00<br>01:00 |      |                             |      |             |             | 0.00m<br>2.00m | 2.00m<br>7.00m | PLAIN<br>SLOTTED | 50mm<br>50mm |

**Remarks**  
 Inspection pit hand dug to 1.20m bgl.  
 Approximate percentage by volume quantifiers as follows; rare (<5%), occasional (5-20%), frequent (20-40%) and abundant (>40%).  
 Borehole terminated as target depth achieved and / or no significant sand lenses encountered at depth.

Log printed on 13/09/2022 at 13:09

# Cable Percussive Borehole Log

BOREHOLE REFERENCE  
**CP202**  
Sheet 1 of 3

|                              |                  |                                |                         |                                |  |
|------------------------------|------------------|--------------------------------|-------------------------|--------------------------------|--|
| Project Name: Ten Acres Lane |                  | Client: NUVU Developments Ltd  |                         | Date: 07/04/2022 - 20/04/2022  |  |
| Location: Newton Heath       |                  | Contractor: Geotron Ltd        |                         | Co-ords: E387549.70 N400181.97 |  |
| Project No. : LD10385        |                  | Drilling Equipment: Dando 2500 |                         | Level : 82.18m AoD             |  |
| Logged By<br>JP              | Checked By<br>JC | Approved By<br>MP              | SPT Energy Ratio<br>68% | Final Depth<br>19.80m          |  |

| Install. / Backfill                                                                | Sample and In Situ Testing |        |                      | Depth (m) | Level (m) | Legend | Stratum Description                                                                                                                                                                                                                                                                                                                        | Scale |
|------------------------------------------------------------------------------------|----------------------------|--------|----------------------|-----------|-----------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|                                                                                    | Depth (m)                  | Type   | Results              |           |           |        |                                                                                                                                                                                                                                                                                                                                            |       |
|  | 0.00 – 1.00                | B      |                      |           |           |        | Recovered as dark brown, gravelly SAND. Gravel is angular to subrounded of fine to coarse red brick, concrete, suspected slag, burnt timber, sandstone, mudstone, slate and mixed lithologies. GMG                                                                                                                                         |       |
|                                                                                    | 1.00 – 2.00                | B      |                      | 1.00      | 81.18     |        | Recovered as damp, brown, sandy GRAVEL with occasional cobble sized fragments of red brick, metal and sandstone. Gravel is angular to subangular of fine to coarse red brick, metal, glass, sandstone, timber, suspected slag and suspected clinker. Occasional gravel sized plastic bag fragments. GMG                                    | 1     |
|                                                                                    | 1.50                       | SPT(S) | N=36 (1,2/7,10,11,8) |           |           |        | 1.50m - 1.60m : Recovered from the SPT tool as firm, brown, sandy, gravelly clay. Gravel as above.                                                                                                                                                                                                                                         |       |
|                                                                                    | 2.00 – 3.00                | B      |                      |           |           |        | 2.00m - 3.00m : Becoming very sandy and no longer damp.                                                                                                                                                                                                                                                                                    | 2     |
|                                                                                    | 3.00                       | SPT(S) | N=50 (6,6/2,3,2,43)  | 3.00      | 79.18     |        | Recovered as dark greyish brown, gravelly, ashy SAND with rare cobble sized fragments of suspected slag. Gravel is angular to subangular of fine to coarse glass, red brick, suspected slag, suspected clinker, timber, tile, quartz and mixed lithologies. Occasional cobble sized fragments of fabric / carpet and plastic sheeting. GMG | 3     |
|                                                                                    | 4.00 – 5.00                | B      |                      |           |           |        | 4.00m - 6.00m : Becoming damp with occasional cobble sized fragments of red brick, suspected slag and sandstone.                                                                                                                                                                                                                           | 4     |
|                                                                                    | 4.40                       | SPT(S) | N=2 (1,0/1,0,0,1)    |           |           |        |                                                                                                                                                                                                                                                                                                                                            |       |
|                                                                                    | 5.00 – 6.00                | B      |                      |           |           |        |                                                                                                                                                                                                                                                                                                                                            | 5     |
|                                                                                    | 6.00 – 7.00                | B      |                      | 6.00      | 76.18     |        | Recovered as dark greyish brown, sandy, ashy in places GRAVEL with frequent cobble sized fragments of timber, concrete, suspected slag, sandstone and metal. Gravel is angular to rounded of fine to coarse red brick, suspected slag, timber, concrete, glass, tiles, metal, quartz, slate, plastic and mixed lithologies. GMG            | 6     |
|                                                                                    | 6.00                       | SPT(S) | N=21 (2,3/2,2,8,9)   |           |           |        |                                                                                                                                                                                                                                                                                                                                            |       |
|                                                                                    | 7.00 – 8.00                | B      |                      |           |           |        | 7.00m - 8.00m : Becoming damp with frequent cobble sized plastic sheeting fragments.                                                                                                                                                                                                                                                       | 7     |
|                                                                                    | 7.40                       | SPT(S) | N=8 (2,2/2,2,2,2)    |           |           |        |                                                                                                                                                                                                                                                                                                                                            |       |
|                                                                                    | 8.00 – 9.00                | B      |                      | 8.00      | 74.18     |        | Recovered as dark greyish brown, gravelly SAND with occasional cobble sized fragments of red brick, rubber / tyres and suspected slag. Gravel is angular to rounded of fine to coarse red brick, metal, timber, suspected slag and mixed lithologies GMG                                                                                   | 8     |
|                                                                                    | 8.00                       | SPT(S) | N=31 (9,15/12,7,7,5) |           |           |        | 8.00m - 9.00m : Occasional metal rods, metal springs and plastic bags.                                                                                                                                                                                                                                                                     |       |
|                                                                                    | 9.00 – 10.00               | B      |                      |           |           |        | 9.00m - 10.00m : Becoming ashy with rare cobble sized fragments of concrete.                                                                                                                                                                                                                                                               | 9     |
|                                                                                    | 9.00                       | SPT(S) |                      |           |           |        |                                                                                                                                                                                                                                                                                                                                            |       |

| Hole Diameter |          | Casing Diameter |          | Chiselling                        |                                    |                                  |      | Inclination and Orientation |      |             |             | Installation |      |           |          |
|---------------|----------|-----------------|----------|-----------------------------------|------------------------------------|----------------------------------|------|-----------------------------|------|-------------|-------------|--------------|------|-----------|----------|
| Depth Base    | Diameter | Depth Base      | Diameter | Depth Top                         | Depth Base                         | Duration                         | Tool | Top                         | Base | Inclination | Orientation | Top          | Base | Pipe Type | Diameter |
| 19.40m        | 200mm    | 13.50m          | 200mm    | 1.40m<br>4.00m<br>7.40m<br>18.00m | 2.30m<br>8.00m<br>12.50m<br>19.40m | 00:45<br>01:20<br>01:25<br>01:35 |      |                             |      |             |             |              |      |           |          |

**Remarks**  
 Inspection pit hand dug to 1.20m bgl.  
 Could not install as the standpipe became buoyant and could not be pushed down to the required depths. Redrill required as CP202A.  
 Approximate percentage by volume quantifiers as follows; rare (<5%), occasional (5-20%), frequent (20-40%) and abundant (>40%).  
 Borehole terminated as target depth achieved and / or no significant sand lenses encountered at depth.

**Log printed on 13/09/2022 at 13:09**

# Cable Percussive Borehole Log

BOREHOLE REFERENCE  
**CP202**  
Sheet 2 of 3

|                              |                  |                                |                         |                                |  |
|------------------------------|------------------|--------------------------------|-------------------------|--------------------------------|--|
| Project Name: Ten Acres Lane |                  | Client: NUVU Developments Ltd  |                         | Date: 07/04/2022 - 20/04/2022  |  |
| Location: Newton Heath       |                  | Contractor: Geotron Ltd        |                         | Co-ords: E387549.70 N400181.97 |  |
| Project No. : LD10385        |                  | Drilling Equipment: Dando 2500 |                         | Level : 82.18m AoD             |  |
| Logged By<br>JP              | Checked By<br>JC | Approved By<br>MP              | SPT Energy Ratio<br>68% | Final Depth<br>19.80m          |  |

| Install. / Backfill                                                                | Sample and In Situ Testing |        |                                | Depth (m) | Level (m) | Legend | Stratum Description                                                                                                                                                                                                                                  | Scale |
|------------------------------------------------------------------------------------|----------------------------|--------|--------------------------------|-----------|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|                                                                                    | Depth (m)                  | Type   | Results                        |           |           |        |                                                                                                                                                                                                                                                      |       |
|  | 10.00 – 11.00              | B      |                                |           |           |        | Recovered as dark greyish brown, gravelly SAND with occasional cobble sized fragments of red brick, rubber / tyres and suspected slag. Gravel is angular to rounded of fine to coarse red brick, metal, timber, suspected slag and mixed lithologies | 10    |
|                                                                                    | 10.50                      | SPT(S) | N=45 (5,4/2,1,1,41)            |           |           |        | GMG<br>10.00m - 11.00m : Becoming very gravelly and within occasional cobble sized fragments of red brick, concrete and sandstone.                                                                                                                   |       |
|                                                                                    | 11.00 – 12.00              | B      |                                |           |           |        |                                                                                                                                                                                                                                                      | 11    |
|                                                                                    | 11.00 – 12.00              | B      |                                |           |           |        |                                                                                                                                                                                                                                                      |       |
|                                                                                    | 12.00 – 13.00              | B      |                                | 12.00     | 70.18     |        | Recovered as soft to firm, brown, slightly sandy, slightly gravelly CLAY. Gravel is angular to rounded of fine to coarse red brick, timber, plastic, wood, metal and mixed lithologies.                                                              | 12    |
|                                                                                    | 12.00                      | SPT(S) | N=15 (2,2/6,3,3,3)             |           |           |        | GMG                                                                                                                                                                                                                                                  |       |
|                                                                                    | 13.00 – 14.00              | B      |                                | 12.70     | 69.48     |        | Soft to firm, brown, slightly sandy, slightly gravelly CLAY. Gravel is angular to rounded of fine to coarse mixed natural lithologies.                                                                                                               | 13    |
|                                                                                    | 13.50                      | SPT(S) | N=23 (3,3/5,5,6,7)             |           |           |        | CGT<br>13.50m - 13.95m : Recovered from the base of the SPT tool as brown sand. Possible lense of brown sand.                                                                                                                                        |       |
|                                                                                    | 14.00 – 15.00              | B      |                                |           |           |        |                                                                                                                                                                                                                                                      | 14    |
|                                                                                    | 15.00 – 16.00              | B      |                                |           |           |        | 15.00m - 17.00m : Damp between 15.00m and 17.00m.                                                                                                                                                                                                    | 15    |
|                                                                                    | 15.00                      | SPT(S) | N=28 (3,4/5,6,8,9)             |           |           |        |                                                                                                                                                                                                                                                      |       |
|                                                                                    | 16.00 – 17.00              | B      |                                |           |           |        |                                                                                                                                                                                                                                                      | 16    |
|                                                                                    | 17.00 – 18.00              | B      |                                |           |           |        |                                                                                                                                                                                                                                                      | 17    |
|                                                                                    | 18.00 – 19.00              | B      |                                |           |           |        |                                                                                                                                                                                                                                                      | 18    |
|                                                                                    | 18.00                      | SPT(S) | N=43 (8,11/11,11,10,11)        |           |           |        |                                                                                                                                                                                                                                                      |       |
|                                                                                    | 19.00 – 19.40              | B      |                                |           |           |        |                                                                                                                                                                                                                                                      | 19    |
|                                                                                    | 19.40                      | SPT(S) | 100 (4,8/11,21,18,50 for 80mm) |           |           |        |                                                                                                                                                                                                                                                      |       |

| Hole Diameter |          | Casing Diameter |          | Chiselling                        |                                    |                                  |      | Inclination and Orientation |      |             |             | Installation |      |           |          |
|---------------|----------|-----------------|----------|-----------------------------------|------------------------------------|----------------------------------|------|-----------------------------|------|-------------|-------------|--------------|------|-----------|----------|
| Depth Base    | Diameter | Depth Base      | Diameter | Depth Top                         | Depth Base                         | Duration                         | Tool | Top                         | Base | Inclination | Orientation | Top          | Base | Pipe Type | Diameter |
| 19.40m        | 200mm    | 13.50m          | 200mm    | 1.40m<br>4.00m<br>7.40m<br>18.00m | 2.30m<br>8.00m<br>12.50m<br>19.40m | 00:45<br>01:20<br>01:25<br>01:35 |      |                             |      |             |             |              |      |           |          |

**Remarks**  
 Inspection pit hand dug to 1.20m bgl.  
 Could not install as the standpipe became buoyant and could not be pushed down to the required depths. Redrill required as CP202A.  
 Approximate percentage by volume quantifiers as follows; rare (<5%), occasional (5-20%), frequent (20-40%) and abundant (>40%).  
 Borehole terminated as target depth achieved and / or no significant sand lenses encountered at depth.

**Log printed on 13/09/2022 at 13:09**

# Cable Percussive Borehole Log

BOREHOLE REFERENCE

**CP202**

Sheet 3 of 3

|                              |                  |                                |                         |                                |  |
|------------------------------|------------------|--------------------------------|-------------------------|--------------------------------|--|
| Project Name: Ten Acres Lane |                  | Client: NUVU Developments Ltd  |                         | Date: 07/04/2022 - 20/04/2022  |  |
| Location: Newton Heath       |                  | Contractor: Geotron Ltd        |                         | Co-ords: E387549.70 N400181.97 |  |
| Project No. : LD10385        |                  | Drilling Equipment: Dando 2500 |                         | Level : 82.18m AoD             |  |
| Logged By<br>JP              | Checked By<br>JC | Approved By<br>MP              | SPT Energy Ratio<br>68% | Final Depth<br>19.80m          |  |

| Instal. /<br>Backfill | Sample and In Situ Testing |      |         | Depth<br>(m) | Level<br>(m) | Legend | Stratum Description                                                                                                                                                        | Scale |
|-----------------------|----------------------------|------|---------|--------------|--------------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|                       | Depth (m)                  | Type | Results |              |              |        |                                                                                                                                                                            |       |
|                       |                            |      |         | 19.80        | 62.38        |        | Soft to firm, brown, slightly sandy, slightly gravelly CLAY. Gravel is angular to rounded of fine to coarse mixed natural lithologies.<br>CGT<br>End of Borehole at 19.80m | 20    |
|                       |                            |      |         |              |              |        |                                                                                                                                                                            | 21    |
|                       |                            |      |         |              |              |        |                                                                                                                                                                            | 22    |
|                       |                            |      |         |              |              |        |                                                                                                                                                                            | 23    |
|                       |                            |      |         |              |              |        |                                                                                                                                                                            | 24    |
|                       |                            |      |         |              |              |        |                                                                                                                                                                            | 25    |
|                       |                            |      |         |              |              |        |                                                                                                                                                                            | 26    |
|                       |                            |      |         |              |              |        |                                                                                                                                                                            | 27    |
|                       |                            |      |         |              |              |        |                                                                                                                                                                            | 28    |
|                       |                            |      |         |              |              |        |                                                                                                                                                                            | 29    |

| Hole Diameter |          | Casing Diameter |          | Chiselling                        |                                    |                                  |      | Inclination and Orientation |      |             |             | Installation |      |           |          |
|---------------|----------|-----------------|----------|-----------------------------------|------------------------------------|----------------------------------|------|-----------------------------|------|-------------|-------------|--------------|------|-----------|----------|
| Depth Base    | Diameter | Depth Base      | Diameter | Depth Top                         | Depth Base                         | Duration                         | Tool | Top                         | Base | Inclination | Orientation | Top          | Base | Pipe Type | Diameter |
| 19.40m        | 200mm    | 13.50m          | 200mm    | 1.40m<br>4.00m<br>7.40m<br>18.00m | 2.30m<br>8.00m<br>12.50m<br>19.40m | 00:45<br>01:20<br>01:25<br>01:35 |      |                             |      |             |             |              |      |           |          |

## Remarks

Inspection pit hand dug to 1.20m bgl.  
 Could not install as the standpipe became buoyant and could not be pushed down to the required depths. Redrill required as CP202A.  
 Approximate percentage by volume quantifiers as follows; rare (<5%), occasional (5-20%), frequent (20-40%) and abundant (>40%).  
 Borehole terminated as target depth achieved and / or no significant sand lenses encountered at depth.

**Log printed on 13/09/2022 at 13:09**

# Cable Percussive Borehole Log

BOREHOLE REFERENCE

**CP202A**

Sheet 1 of 2

|                              |                                |                                |
|------------------------------|--------------------------------|--------------------------------|
| Project Name: Ten Acres Lane | Client: NUVU Developments Ltd  | Date: 19/04/2022 - 20/04/2022  |
| Location: Newton Heath       | Contractor: Geotron Ltd        | Co-ords: E387549.70 N400181.97 |
| Project No. : LD10385        | Drilling Equipment: Dando 2500 | Level : 82.18m AoD             |

|                 |                  |                   |                       |                       |
|-----------------|------------------|-------------------|-----------------------|-----------------------|
| Logged By<br>JP | Checked By<br>JC | Approved By<br>MP | SPT Energy Ratio<br>% | Final Depth<br>15.00m |
|-----------------|------------------|-------------------|-----------------------|-----------------------|

| Install. /<br>Backfill | Water<br>Strikes | Sample and In Situ Testing |      |         | Depth<br>(m) | Level<br>(m) | Legend | Stratum Description                                                                   | Scale |
|------------------------|------------------|----------------------------|------|---------|--------------|--------------|--------|---------------------------------------------------------------------------------------|-------|
|                        |                  | Depth (m)                  | Type | Results |              |              |        |                                                                                       |       |
|                        |                  |                            |      |         |              |              |        | Driller notes Made Ground FILL with brick, concrete, glass, timber and fabric.<br>GMG |       |
|                        |                  |                            |      |         |              |              |        |                                                                                       | 1     |
|                        |                  |                            |      |         |              |              |        |                                                                                       | 2     |
|                        |                  |                            |      |         |              |              |        |                                                                                       | 3     |
|                        |                  |                            |      |         |              |              |        |                                                                                       | 4     |
|                        |                  |                            |      |         |              |              |        |                                                                                       | 5     |
|                        |                  |                            |      |         |              |              |        |                                                                                       | 6     |
|                        |                  |                            |      |         |              |              |        |                                                                                       | 7     |
|                        |                  |                            |      |         |              |              |        |                                                                                       | 8     |
|                        |                  |                            |      |         |              |              |        |                                                                                       | 9     |

| Hole Diameter |          | Casing Diameter |          | Chiselling |            |          |      | Inclination and Orientation |      |             |             | Installation    |                  |                  |          |
|---------------|----------|-----------------|----------|------------|------------|----------|------|-----------------------------|------|-------------|-------------|-----------------|------------------|------------------|----------|
| Depth Base    | Diameter | Depth Base      | Diameter | Depth Top  | Depth Base | Duration | Tool | Top                         | Base | Inclination | Orientation | Top             | Base             | Pipe Type        | Diameter |
| 15.00m        | 200mm    | 14.10m          | 200mm    | 1.50m      | 0.00m      | 01:45    |      |                             |      |             |             | 0.00m<br>13.00m | 13.00m<br>15.00m | PLAIN<br>SLOTTED |          |

**Remarks**  
 Inspection pit hand dug to 1.20m bgl.  
 Redrill for CP202 as monitoring well at this position became buoyant and could not be installed at the correct depth.  
 Approximate percentage by volume quantifiers as follows; rare (<5%), occasional (5-20%), frequent (20-40%) and abundant (>40%).  
 Borehole terminated as target depth for monitoring well that was supposed to be installed as CP202 was achieved.

**Log printed on 13/09/2022 at 13:09**

# Cable Percussive Borehole Log

BOREHOLE REFERENCE

**CP202A**

Sheet 2 of 2

|                              |                  |                                |                       |                                |  |
|------------------------------|------------------|--------------------------------|-----------------------|--------------------------------|--|
| Project Name: Ten Acres Lane |                  | Client: NUVU Developments Ltd  |                       | Date: 19/04/2022 - 20/04/2022  |  |
| Location: Newton Heath       |                  | Contractor: Geotron Ltd        |                       | Co-ords: E387549.70 N400181.97 |  |
| Project No. : LD10385        |                  | Drilling Equipment: Dando 2500 |                       | Level : 82.18m AoD             |  |
| Logged By<br>JP              | Checked By<br>JC | Approved By<br>MP              | SPT Energy Ratio<br>% | Final Depth<br>15.00m          |  |

| Instal. /<br>Backfill | Water<br>Strikes | Sample and In Situ Testing |      |         | Depth<br>(m) | Level<br>(m) | Legend | Stratum Description                                                                   | Scale |
|-----------------------|------------------|----------------------------|------|---------|--------------|--------------|--------|---------------------------------------------------------------------------------------|-------|
|                       |                  | Depth (m)                  | Type | Results |              |              |        |                                                                                       |       |
|                       |                  |                            |      |         |              |              |        | Driller notes Made Ground FILL with brick, concrete, glass, timber and fabric.<br>GMG | 10    |
|                       |                  |                            |      |         |              |              |        |                                                                                       | 11    |
|                       |                  |                            |      |         |              |              |        |                                                                                       | 12    |
|                       |                  |                            |      |         | 12.70        | 69.48        |        | Driller notes firm brown boulder CLAY.<br>CGT                                         |       |
|                       |                  |                            |      |         | 13.10        | 69.08        |        | Driller notes brown fine SAND.<br>GGT                                                 | 13    |
|                       |                  |                            |      |         | 13.70        | 68.48        |        | Driller notes firm brown boulder CLAY.<br>CGT                                         | 14    |
|                       |                  |                            |      |         | 15.00        | 67.18        |        | End of Borehole at 15.00m                                                             | 15    |
|                       |                  |                            |      |         |              |              |        |                                                                                       | 16    |
|                       |                  |                            |      |         |              |              |        |                                                                                       | 17    |
|                       |                  |                            |      |         |              |              |        |                                                                                       | 18    |
|                       |                  |                            |      |         |              |              |        |                                                                                       | 19    |

| Hole Diameter |          | Casing Diameter |          | Chiselling |            |          |      | Inclination and Orientation |      |             |             | Installation    |                  |                  |          |
|---------------|----------|-----------------|----------|------------|------------|----------|------|-----------------------------|------|-------------|-------------|-----------------|------------------|------------------|----------|
| Depth Base    | Diameter | Depth Base      | Diameter | Depth Top  | Depth Base | Duration | Tool | Top                         | Base | Inclination | Orientation | Top             | Base             | Pipe Type        | Diameter |
| 15.00m        | 200mm    | 14.10m          | 200mm    | 1.50m      | 0.00m      | 01:45    |      |                             |      |             |             | 0.00m<br>13.00m | 13.00m<br>15.00m | PLAIN<br>SLOTTED |          |

## Remarks

Inspection pit hand dug to 1.20m bgl.  
 Redrill for CP202 as monitoring well at this position became buoyant and could not be installed at the correct depth.  
 Approximate percentage by volume quantifiers as follows; rare (<5%), occasional (5-20%), frequent (20-40%) and abundant (>40%).  
 Borehole terminated as target depth for monitoring well that was supposed to be installed as CP202 was achieved.

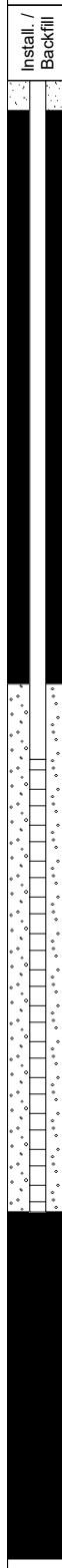
**Log printed on 13/09/2022 at 13:09**

# Cable Percussive Borehole Log

BOREHOLE REFERENCE  
**CP203**  
Sheet 1 of 2

|                              |                                |                                |
|------------------------------|--------------------------------|--------------------------------|
| Project Name: Ten Acres Lane | Client: NUVU Developments Ltd  | Date: 04/04/2022 - 06/04/2022  |
| Location: Newton Heath       | Contractor: Geotron Ltd        | Co-ords: E387702.20 N400203.13 |
| Project No. : LD10385        | Drilling Equipment: Dando 2500 | Level : 82.68m AoD             |

|                      |                  |                   |                         |                       |
|----------------------|------------------|-------------------|-------------------------|-----------------------|
| Logged By<br>JP & MS | Checked By<br>JC | Approved By<br>MP | SPT Energy Ratio<br>68% | Final Depth<br>14.95m |
|----------------------|------------------|-------------------|-------------------------|-----------------------|

| Install. / Backfill                                                                | Water Strikes                                                                     | Sample and In Situ Testing |             |                    | Depth (m) | Level (m) | Legend | Stratum Description                                                                                                                                                                                                                                                                | Scale |
|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------|-------------|--------------------|-----------|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|                                                                                    |                                                                                   | Depth (m)                  | Type        | Results            |           |           |        |                                                                                                                                                                                                                                                                                    |       |
|  |  | 0.00 – 1.00                | B           |                    |           |           |        | Recovered as dark brown, gravelly SAND with occasional cobble size fragments of red brick, fabric and leather. Gravel is angular to rounded of fine to coarse red brick, concrete, glass, fabric and mixed lithologies. Occasional plastic bag fragments and roots / rootlets. GMG |       |
|                                                                                    |                                                                                   | 1.00 – 2.00                | B           |                    | 1.00      | 81.68     |        | Recovered as brown, sandy, clayey GRAVEL with rare cobble sized fragments of carpet. Gravel is angular to subrounded of fine to coarse glass, red brick, tiles, burnt wood and mixed lithologies. Occasional roots and rootlets. GMG                                               | 1     |
|                                                                                    |                                                                                   | 1.60                       | SPT(S)      | N=8 (2,3/2,2,2,2)  | 1.50      | 81.18     |        | Recovered as soft, brown, slightly sandy, slightly gravelly CLAY with occasional cobble sized fragments of metal and hessian fabric. Gravel is angular to subrounded of fine to coarse red brick, coal, burnt wood, tiles and mixed lithologies. CMG                               | 2     |
|                                                                                    |                                                                                   | 2.00 – 3.00                | B           |                    |           |           |        |                                                                                                                                                                                                                                                                                    |       |
|                                                                                    |                                                                                   | 3.00 – 4.00<br>3.00        | B<br>SPT(S) | N=4 (4,1/1,0,2,1)  |           |           |        | 3.00m - 4.50m : Becoming damp with occasional cobble sized fragments of red brick between 3.00m and 4.50m.                                                                                                                                                                         | 3     |
|                                                                                    |                                                                                   | 4.00 – 5.00                | B           |                    |           |           |        |                                                                                                                                                                                                                                                                                    | 4     |
|                                                                                    |                                                                                   | 4.70                       | SPT(S)      | N=16 (4,4/4,4,4,4) | 4.70      | 77.98     |        | Firm, brown, slightly sandy, slightly gravelly CLAY. Gravel is subrounded to rounded of fine to coarse mixed natural lithologies. CGT                                                                                                                                              | 5     |
|                                                                                    |                                                                                   | 5.00 – 6.00                | B           |                    | 5.15      | 77.53     |        | Medium dense, becoming loose from 7.50m, light brown gravelly, silty coarse SAND. Gravel is angular to rounded of fine to coarse sandstone and coal. GGT                                                                                                                           | 6     |
|                                                                                    |                                                                                   | 6.00 – 7.00<br>6.00        | B<br>SPT(S) | N=13 (2,3/2,3,4,4) |           |           |        |                                                                                                                                                                                                                                                                                    | 7     |
|                                                                                    |                                                                                   | 7.00 – 8.00<br>7.40        | B<br>SPT(S) | N=9 (0,0/1,2,3,3)  |           |           |        |                                                                                                                                                                                                                                                                                    | 8     |
|                                                                                    |                                                                                   | 8.00 – 9.00                | B           |                    | 7.80      | 74.88     |        | Soft to firm, brown, slightly sandy, slightly gravelly CLAY. Gravel is subangular to rounded of fine to medium coal and mixed natural lithologies. CGT<br>8.00m : Becoming damp from 8.00m.                                                                                        | 9     |
|                                                                                    |                                                                                   | 9.00 – 10.00<br>9.45       | B<br>SPT(S) | N=13 (2,3/3,3,4)   |           |           |        |                                                                                                                                                                                                                                                                                    |       |

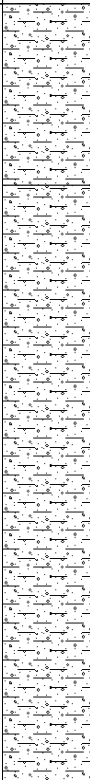
| Hole Diameter |          | Casing Diameter |          | Chiselling |            |          |      | Inclination and Orientation |      |             |             | Installation   |                |                  |          |
|---------------|----------|-----------------|----------|------------|------------|----------|------|-----------------------------|------|-------------|-------------|----------------|----------------|------------------|----------|
| Depth Base    | Diameter | Depth Base      | Diameter | Depth Top  | Depth Base | Duration | Tool | Top                         | Base | Inclination | Orientation | Top            | Base           | Pipe Type        | Diameter |
| 14.50m        | 200mm    | 9.00m           | 200mm    | 13.50m     | 14.50m     | 00:45    |      |                             |      |             |             | 0.00m<br>4.50m | 4.50m<br>7.50m | PLAIN<br>SLOTTED |          |

Remarks  
Inspection pit hand dug to 1.20m bgl.  
Approximate percentage by volume quantifiers as follows; rare (<5%), occasional (5-20%), frequent (20-40%) and abundant (>40%).  
Borehole terminated as target depth achieved and / or no significant sand lenses encountered at depth.

# Cable Percussive Borehole Log

BOREHOLE REFERENCE  
**CP203**  
Sheet 2 of 2

|                              |                  |                                |                         |                                |                       |
|------------------------------|------------------|--------------------------------|-------------------------|--------------------------------|-----------------------|
| Project Name: Ten Acres Lane |                  | Client: NUVU Developments Ltd  |                         | Date: 04/04/2022 - 06/04/2022  |                       |
| Location: Newton Heath       |                  | Contractor: Geotron Ltd        |                         | Co-ords: E387702.20 N400203.13 |                       |
| Project No. : LD10385        |                  | Drilling Equipment: Dando 2500 |                         | Level : 82.68m AoD             |                       |
| Logged By<br>JP & MS         | Checked By<br>JC | Approved By<br>MP              | SPT Energy Ratio<br>68% |                                | Final Depth<br>14.95m |

| Install. /<br>Backfill | Water<br>Strikes | Sample and In Situ Testing     |             |                    | Depth<br>(m)              | Level<br>(m) | Legend                                                                             | Stratum Description                                                                                                                                                                                                                                                                                       | Scale |                                               |  |  |
|------------------------|------------------|--------------------------------|-------------|--------------------|---------------------------|--------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----------------------------------------------|--|--|
|                        |                  | Depth (m)                      | Type        | Results            |                           |              |                                                                                    |                                                                                                                                                                                                                                                                                                           |       |                                               |  |  |
|                        |                  | 10.00 – 11.00                  | B           | Ublow=110          | 11.00                     | 71.68        |  | Soft to firm, brown, slightly sandy, slightly gravelly CLAY. Gravel is subangular to rounded of fine to medium coal and mixed natural lithologies.<br>CGT<br>10.00m - 11.00m : Becoming sandy between 10.00m and 11.00m.                                                                                  | 10    |                                               |  |  |
|                        |                  | 10.50 – 10.95                  | U           |                    |                           |              |                                                                                    |                                                                                                                                                                                                                                                                                                           |       |                                               |  |  |
|                        |                  | 10.95 – 11.05<br>11.00 – 12.00 | D<br>B      | N=14 (2,2/3,3,4,4) |                           |              |                                                                                    | Recovered as soft to firm, probably firm as recovered from the SPT tool, reddish brown to brown, slightly sandy, slightly gravelly CLAY. Gravel is angular to subrounded of fine to coarse sandstone, mudstone and mixed natural lithologies.<br>CGT<br>11.00m - 12.00m : Damp between 11.00m and 12.00m. | 11    |                                               |  |  |
|                        |                  | 12.00 – 13.00<br>12.00         | B<br>SPT(S) |                    |                           |              |                                                                                    | 12.00m - 13.00m : With occasional subangular to rounded cobbles of mudstone.                                                                                                                                                                                                                              | 12    |                                               |  |  |
|                        |                  | 13.00 – 14.00                  | B           |                    |                           |              |                                                                                    | 13.00m - 14.00m : Becoming wet between 13.00m and 14.00m.                                                                                                                                                                                                                                                 | 13    |                                               |  |  |
|                        |                  | 13.60                          | SPT(S)      |                    |                           |              |                                                                                    | N=26 (2,4/5,6,7,8)                                                                                                                                                                                                                                                                                        |       |                                               |  |  |
|                        |                  | 14.00 – 14.50                  | B           |                    |                           |              |                                                                                    | 14                                                                                                                                                                                                                                                                                                        |       |                                               |  |  |
|                        |                  | 14.50                          | SPT(S)      |                    |                           |              |                                                                                    | N=35 (4,5/5,8,11,11)                                                                                                                                                                                                                                                                                      |       | 14.50m : Possibly becoming stiff from 14.50m. |  |  |
|                        |                  |                                |             |                    |                           |              |                                                                                    |                                                                                                                                                                                                                                                                                                           |       |                                               |  |  |
|                        |                  |                                | 14.95       | 67.73              | End of Borehole at 14.95m |              | 15                                                                                 |                                                                                                                                                                                                                                                                                                           |       |                                               |  |  |
|                        |                  |                                |             |                    |                           |              |                                                                                    | 16                                                                                                                                                                                                                                                                                                        |       |                                               |  |  |
|                        |                  |                                |             |                    |                           |              |                                                                                    | 17                                                                                                                                                                                                                                                                                                        |       |                                               |  |  |
|                        |                  |                                |             |                    |                           |              |                                                                                    | 18                                                                                                                                                                                                                                                                                                        |       |                                               |  |  |
|                        |                  |                                |             |                    |                           |              |                                                                                    | 19                                                                                                                                                                                                                                                                                                        |       |                                               |  |  |

| Hole Diameter |          | Casing Diameter |          | Chiselling |            |          |      | Inclination and Orientation |      |             |             | Installation   |                |                  |          |
|---------------|----------|-----------------|----------|------------|------------|----------|------|-----------------------------|------|-------------|-------------|----------------|----------------|------------------|----------|
| Depth Base    | Diameter | Depth Base      | Diameter | Depth Top  | Depth Base | Duration | Tool | Top                         | Base | Inclination | Orientation | Top            | Base           | Pipe Type        | Diameter |
| 14.50m        | 200mm    | 9.00m           | 200mm    | 13.50m     | 14.50m     | 00:45    |      |                             |      |             |             | 0.00m<br>4.50m | 4.50m<br>7.50m | PLAIN<br>SLOTTED |          |

Remarks  
Inspection pit hand dug to 1.20m bgl.  
Approximate percentage by volume quantifiers as follows; rare (<5%), occasional (5-20%), frequent (20-40%) and abundant (>40%).  
Borehole terminated as target depth achieved and / or no significant sand lenses encountered at depth.

Log printed on 13/09/2022 at 13:09

# Cable Percussive Borehole Log

BOREHOLE REFERENCE  
**CP204**  
Sheet 1 of 2

|                              |                                |                                |
|------------------------------|--------------------------------|--------------------------------|
| Project Name: Ten Acres Lane | Client: NUVU Developments Ltd  | Date: 31/03/2022 - 07/04/2022  |
| Location: Newton Heath       | Contractor: Geotron Ltd        | Co-ords: E387729.42 N400285.79 |
| Project No. : LD10385        | Drilling Equipment: Dando 2500 | Level : 85.16m AoD             |

|                      |                  |                   |                         |                       |
|----------------------|------------------|-------------------|-------------------------|-----------------------|
| Logged By<br>JP & MS | Checked By<br>JC | Approved By<br>MP | SPT Energy Ratio<br>65% | Final Depth<br>18.25m |
|----------------------|------------------|-------------------|-------------------------|-----------------------|

| Install. / Backfill | Water Strikes | Sample and In Situ Testing |        |                        | Depth (m) | Level (m) | Legend | Stratum Description                                                                                                                                                                                                                                                                                         | Scale |
|---------------------|---------------|----------------------------|--------|------------------------|-----------|-----------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|                     |               | Depth (m)                  | Type   | Results                |           |           |        |                                                                                                                                                                                                                                                                                                             |       |
|                     |               | 0.00 – 1.00                | B      |                        |           |           |        | Recovered as soft, dark brown to dark grey, mottled black, red and orange, sandy, gravelly CLAY with occasional cobble sized fragments of red brick. Gravel is angular to subrounded of fine to coarse sandstone, mudstone, red brick, timber and mixed lithologies.<br>CMG                                 | 1     |
|                     |               | 1.50                       | SPT(S) | N=10 (5,1/2,3,2,3)     | 1.50      | 83.66     |        | Recovered as soft, brown to grey, mottled black, slightly gravelly, sandy / ashy CLAY with rare cobble sized fragments of red brick. Gravel is angular to subrounded of fine to coarse sandstone, mudstone, red brick, suspected clinker, suspected slag, concrete and mixed lithologies.<br>CMG            | 2     |
|                     |               | 2.00 – 2.40                | B      |                        |           |           |        |                                                                                                                                                                                                                                                                                                             |       |
|                     |               | 3.00                       | SPT(S) | N=23 (6,6/7,7,3,6)     |           |           |        |                                                                                                                                                                                                                                                                                                             | 3     |
|                     |               | 3.70 – 4.00                | B      |                        |           |           |        |                                                                                                                                                                                                                                                                                                             |       |
|                     |               | 4.00                       | B      |                        | 4.00      | 81.16     |        |                                                                                                                                                                                                                                                                                                             | 4     |
|                     |               | 4.00 – 4.50                | B      |                        |           |           |        | Recovered as soft, dark brown brownish grey, slightly sandy, gravelly CLAY with rare cobble sized fragments of red brick and concrete. Gravel is angular to subrounded of fine to coarse sandstone, mudstone, suspected slag and suspected clinker.<br>CMG                                                  |       |
|                     |               | 4.50                       | SPT(S) | N=16 (1,0/3,3,5,5)     | 4.60      | 80.56     |        |                                                                                                                                                                                                                                                                                                             |       |
|                     |               | 5.00 – 5.60                | B      |                        |           |           |        | Recovered as soft, brown to dark grey, slightly sandy, slightly gravelly CLAY. Gravel is angular to subrounded of fine to coarse sandstone and mudstone.<br>CMG                                                                                                                                             | 5     |
|                     |               | 6.00                       | SPT(S) | N=49 (5,4/10,12,12,15) | 6.00      | 79.16     |        |                                                                                                                                                                                                                                                                                                             | 6     |
|                     |               | 6.50 – 7.00                | B      |                        |           |           |        | Recovered as firm, reddish brown to greyish brown, slightly sandy, slightly gravelly CLAY. Gravel is angular to subrounded of fine to coarse red brick, sandstone and mudstone.<br>CMG                                                                                                                      |       |
|                     |               | 7.50 – 8.00                | B      |                        | 7.50      | 77.66     |        | Recovered as soft to firm, wet, brown, slightly sandy, slightly gravelly CLAY with occasional cobble sized fragments of red brick, sandstone and quartzite. Gravel is subangular to rounded of fine to coarse red brick, sandstone and quartzite. Driller notes sheen on water and hydrocarbon odor.<br>CMG | 7     |
|                     |               | 7.50                       | SPT(S) | N=14 (3,6/6,4,2,2)     |           |           |        |                                                                                                                                                                                                                                                                                                             |       |
|                     |               | 8.10 – 9.00                | B      |                        | 8.00      | 77.16     |        | Recovered as soft, brown to reddish brown, slightly sandy, slightly gravelly CLAY with frequent cobble sized fragments of sandstone and quartzite. Gravel is angular to subrounded of fine to coarse sandstone and mudstone.<br>CMG                                                                         | 8     |
|                     |               | 9.00                       | SPT(S) | N=18 (3,2/4,4,5,5)     | 9.00      | 76.16     |        | Recovered as soft to firm, probably stiff as noted by drillers, brown, slightly sandy, slightly gravelly CLAY. Gravel is subangular to subrounded of fine to coarse mixed natural lithologies. Drillers note hints of red brick.<br>CMG                                                                     | 9     |
|                     |               | 9.30 – 9.45                | B      |                        | 9.50      | 75.66     |        | Recovered as soft to firm, probably stiff as noted by drillers, brown, slightly sandy, slightly gravelly CLAY. Gravel is subangular to subrounded of fine to coarse mixed natural lithologies.<br>CGT                                                                                                       |       |

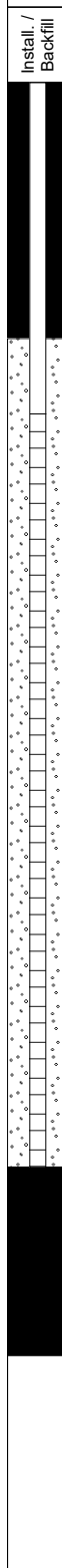
| Hole Diameter |          | Casing Diameter |          | Chiselling                                   |                                              |                                           |      | Inclination and Orientation |      |             |             | Installation    |                  |                  |          |
|---------------|----------|-----------------|----------|----------------------------------------------|----------------------------------------------|-------------------------------------------|------|-----------------------------|------|-------------|-------------|-----------------|------------------|------------------|----------|
| Depth Base    | Diameter | Depth Base      | Diameter | Depth Top                                    | Depth Base                                   | Duration                                  | Tool | Top                         | Base | Inclination | Orientation | Top             | Base             | Pipe Type        | Diameter |
| 18.00m        | 200mm    | 16.00m          | 200mm    | 6.00m<br>8.50m<br>10.50m<br>11.50m<br>15.50m | 7.50m<br>9.00m<br>11.20m<br>13.00m<br>18.00m | 01:00<br>00:35<br>00:45<br>01:15<br>02:30 |      |                             |      |             |             | 0.00m<br>12.00m | 12.00m<br>17.00m | PLAIN<br>SLOTTED |          |

Remarks  
Inspection pit hand dug to 1.20m bgl.  
Approximate percentage by volume quantifiers as follows; rare (<5%), occasional (5-20%), frequent (20-40%) and abundant (>40%).  
Borehole terminated as target depth achieved and / or no significant sand lenses encountered at depth.

# Cable Percussive Borehole Log

BOREHOLE REFERENCE  
**CP204**  
Sheet 2 of 2

|                              |                  |                                |                         |                                |                       |
|------------------------------|------------------|--------------------------------|-------------------------|--------------------------------|-----------------------|
| Project Name: Ten Acres Lane |                  | Client: NUVU Developments Ltd  |                         | Date: 31/03/2022 - 07/04/2022  |                       |
| Location: Newton Heath       |                  | Contractor: Geotron Ltd        |                         | Co-ords: E387729.42 N400285.79 |                       |
| Project No. : LD10385        |                  | Drilling Equipment: Dando 2500 |                         | Level : 85.16m AoD             |                       |
| Logged By<br>JP & MS         | Checked By<br>JC | Approved By<br>MP              | SPT Energy Ratio<br>65% |                                | Final Depth<br>18.25m |

| Instal. / Backfill                                                                 | Water Strikes                                                                     | Sample and In Situ Testing |             |                            | Depth (m) | Level (m) | Legend | Stratum Description                                                                                                                                                                                                                          | Scale |
|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------|-------------|----------------------------|-----------|-----------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|                                                                                    |                                                                                   | Depth (m)                  | Type        | Results                    |           |           |        |                                                                                                                                                                                                                                              |       |
|  |  | 10.50                      | SPT(S)      | N=28 (3,4/6,8,7,7)         |           |           |        | Recovered as soft to firm, probably stiff as noted by drillers, brown, slightly sandy, slightly gravelly CLAY. Gravel is subangular to subrounded of fine to coarse mixed natural lithologies.<br>CGT<br>10.00m : Becoming firm from 10.00m. | 10    |
|                                                                                    |                                                                                   | 11.50 – 12.00              | B           |                            | 11.50     | 73.66     |        | Driller notes stiff, dark brown, boulder CLAY.<br>CGT                                                                                                                                                                                        | 11    |
|                                                                                    |  | 12.00                      | SPT(S)      | N=26 (2,4/4,6,8,8)         |           |           |        |                                                                                                                                                                                                                                              | 12    |
|                                                                                    |                                                                                   | 13.00 – 13.50              | B           |                            |           |           |        |                                                                                                                                                                                                                                              | 13    |
|                                                                                    |                                                                                   | 13.50 – 14.50<br>13.50     | B<br>SPT(S) | N=44 (4,6/10,10,11,13)     | 13.50     | 71.66     |        | Recovered as soft to firm, probably very stiff as noted by drillers, wet, brown, slightly sandy, slightly gravelly CLAY. Gravel is subangular to subrounded of fine to coarse mixed natural lithologies.<br>CGT                              | 14    |
|                                                                                    |                                                                                   | 15.00                      | SPT(S)      | 50 (7,8/25,25 for 50mm)    | 15.00     | 70.16     |        | Brown SAND.<br>GGT                                                                                                                                                                                                                           | 15    |
|                                                                                    |                                                                                   | 16.00                      |             |                            | 16.00     | 69.16     |        | Driller notes very stiff, brown, boulder CLAY.<br>CGT                                                                                                                                                                                        | 16    |
|                                                                                    |                                                                                   | 16.50                      | SPT(S)      | N=50 (10,9/12,13,13,12)    |           |           |        |                                                                                                                                                                                                                                              | 17    |
|                                                                                    |                                                                                   | 18.00                      | SPT(S)      | 50 (10,12/30,20,0 for 0mm) | 18.25     | 66.91     |        |                                                                                                                                                                                                                                              | 18    |
|                                                                                    |                                                                                   |                            |             |                            |           |           |        | End of Borehole at 18.25m                                                                                                                                                                                                                    | 19    |

| Hole Diameter |          | Casing Diameter |          | Chiselling                                   |                                              |                                           |      | Inclination and Orientation |      |             |             | Installation    |                  |                  |          |
|---------------|----------|-----------------|----------|----------------------------------------------|----------------------------------------------|-------------------------------------------|------|-----------------------------|------|-------------|-------------|-----------------|------------------|------------------|----------|
| Depth Base    | Diameter | Depth Base      | Diameter | Depth Top                                    | Depth Base                                   | Duration                                  | Tool | Top                         | Base | Inclination | Orientation | Top             | Base             | Pipe Type        | Diameter |
| 18.00m        | 200mm    | 16.00m          | 200mm    | 6.00m<br>8.50m<br>10.50m<br>11.50m<br>15.50m | 7.50m<br>9.00m<br>11.20m<br>13.00m<br>18.00m | 01:00<br>00:35<br>00:45<br>01:15<br>02:30 |      |                             |      |             |             | 0.00m<br>12.00m | 12.00m<br>17.00m | PLAIN<br>SLOTTED |          |

**Remarks**  
Inspection pit hand dug to 1.20m bgl.  
Approximate percentage by volume quantifiers as follows; rare (<5%), occasional (5-20%), frequent (20-40%) and abundant (>40%).  
Borehole terminated as target depth achieved and / or no significant sand lenses encountered at depth.

# Cable Percussive Borehole Log

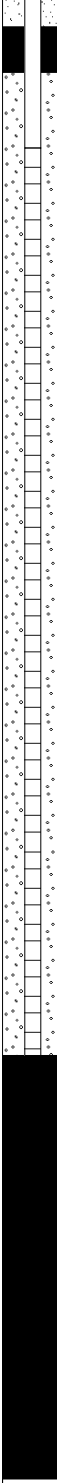
BOREHOLE REFERENCE

**CP205**

Sheet 1 of 2

|                              |                                |                                |
|------------------------------|--------------------------------|--------------------------------|
| Project Name: Ten Acres Lane | Client: NUVU Developments Ltd  | Date: 08/04/2022 - 22/04/2022  |
| Location: Newton Heath       | Contractor: Geotron Ltd        | Co-ords: E387739.59 N400236.33 |
| Project No. : LD10385        | Drilling Equipment: Dando 2500 | Level : 82.88m AoD             |

|                 |                  |                   |                         |                       |
|-----------------|------------------|-------------------|-------------------------|-----------------------|
| Logged By<br>MS | Checked By<br>JC | Approved By<br>MP | SPT Energy Ratio<br>65% | Final Depth<br>15.00m |
|-----------------|------------------|-------------------|-------------------------|-----------------------|

| Install. / Backfill                                                                | Water Strikes                                                                     | Sample and In Situ Testing |             |                     | Depth (m) | Level (m) | Legend | Stratum Description                                                                                                                                                                                                                                            | Scale |
|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------|-------------|---------------------|-----------|-----------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|                                                                                    |                                                                                   | Depth (m)                  | Type        | Results             |           |           |        |                                                                                                                                                                                                                                                                |       |
|  |  | 0.00 – 1.00                | B           |                     |           |           |        | Recovered as dark brown to reddish brown, mottled orangish red, very gravelly, very clayey SAND with occasional cobble sized fragments of red brick. Gravel is angular to subrounded of fine to coarse red brick, ceramic, concrete and mixed lithologies. CMG |       |
|                                                                                    |                                                                                   | 1.00 – 2.00                | B           |                     |           |           |        |                                                                                                                                                                                                                                                                | 1     |
|                                                                                    |                                                                                   | 1.50                       | SPT(S)      | N=5 (1,0/2,1,1,1)   |           |           |        |                                                                                                                                                                                                                                                                |       |
|                                                                                    |                                                                                   | 2.00 – 3.00                | B           |                     | 2.20      | 80.68     |        |                                                                                                                                                                                                                                                                | 2     |
|                                                                                    |                                                                                   | 3.00 – 4.00<br>3.00        | B<br>SPT(S) | N=2 (1,0/1,0,1,0)   | 3.40      | 79.48     |        | Recovered as wet, dark brown, mottled reddish brown, gravelly, clayey SAND / ASH. Gravel is angular to rounded of fine to coarse red brick, plastic, glass, timber, suspected slag, suspected clinker and mixed lithologies. CW                                | 3     |
|                                                                                    |                                                                                   | 4.00 – 5.00                | B           |                     |           |           |        | Recovered as soft, brown to grey, slightly gravelly, sandy / ashy CLAY. Gravel is angular to subangular of fine to coarse red brick, timber and mixed lithologies. CMG                                                                                         | 4     |
|                                                                                    |                                                                                   | 4.50                       | SPT(S)      | N=2 (1,1/0,1,0,1)   |           |           |        |                                                                                                                                                                                                                                                                |       |
|                                                                                    |                                                                                   | 5.00 – 6.00                | B           |                     | 5.00      | 77.88     |        | Recovered as soft, brown to dark brown, slightly sandy / ashy, gravelly CLAY. Gravel is angular of fine to coarse red brick and mixed lithologies. CMG                                                                                                         | 5     |
|                                                                                    |                                                                                   | 6.00 – 7.00<br>6.00        | B<br>SPT(S) | N=9 (2,1/2,1,3,3)   |           |           |        |                                                                                                                                                                                                                                                                | 6     |
|                                                                                    |                                                                                   | 7.00 – 8.00                | B           |                     | 7.20      | 75.68     |        | Dense reddish brown slightly gravelly SAND. Gravel is angular to subrounded of fine to medium sandstone. GGT                                                                                                                                                   | 7     |
|                                                                                    |                                                                                   | 7.50                       | SPT(S)      | N=33 (5,5/5,9,9,10) |           |           |        |                                                                                                                                                                                                                                                                |       |
|                                                                                    |                                                                                   | 8.00 – 9.00<br>8.00        | B<br>B      |                     | 8.50      | 74.38     |        | Firm, reddish brown to dark brown, slightly sandy, slightly gravelly CLAY. Gravel is angular to subrounded of fine to coarse mixed natural lithologies. CGT                                                                                                    | 8     |
|                                                                                    |                                                                                   | 9.00 – 10.00<br>9.00       | B<br>SPT(S) | N=14 (2,2/2,4,4,4)  | 9.70      | 73.18     |        | Driller notes firm, brown, boulder CLAY. CGT                                                                                                                                                                                                                   | 9     |

| Hole Diameter |          | Casing Diameter |          | Chiselling     |                |                |      | Inclination and Orientation |      |             |             | Installation   |                |                  |          |
|---------------|----------|-----------------|----------|----------------|----------------|----------------|------|-----------------------------|------|-------------|-------------|----------------|----------------|------------------|----------|
| Depth Base    | Diameter | Depth Base      | Diameter | Depth Top      | Depth Base     | Duration       | Tool | Top                         | Base | Inclination | Orientation | Top            | Base           | Pipe Type        | Diameter |
| 15.00m        | 200mm    | 9.50m           | 200mm    | 1.20m<br>1.50m | 2.20m<br>2.80m | 01:20<br>01:00 |      |                             |      |             |             | 0.00m<br>1.00m | 1.00m<br>7.00m | PLAIN<br>SLOTTED |          |

**Remarks**  
Inspection pit hand dug to 1.20m bgl.  
Approximate percentage by volume quantifiers as follows; rare (<5%), occasional (5-20%), frequent (20-40%) and abundant (>40%).  
Borehole terminated as target depth achieved and / or no significant sand lenses encountered at depth.

# Cable Percussive Borehole Log

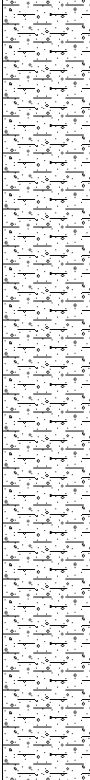
BOREHOLE REFERENCE

**CP205**

Sheet 2 of 2

|                              |                                |                                |
|------------------------------|--------------------------------|--------------------------------|
| Project Name: Ten Acres Lane | Client: NUVU Developments Ltd  | Date: 08/04/2022 - 22/04/2022  |
| Location: Newton Heath       | Contractor: Geotron Ltd        | Co-ords: E387739.59 N400236.33 |
| Project No. : LD10385        | Drilling Equipment: Dando 2500 | Level : 82.88m AoD             |

|                 |                  |                   |                         |                       |
|-----------------|------------------|-------------------|-------------------------|-----------------------|
| Logged By<br>MS | Checked By<br>JC | Approved By<br>MP | SPT Energy Ratio<br>65% | Final Depth<br>15.00m |
|-----------------|------------------|-------------------|-------------------------|-----------------------|

| Install. /<br>Backfill | Water<br>Strikes | Sample and In Situ Testing |        |                      | Depth<br>(m) | Level<br>(m) | Legend                                                                             | Stratum Description                             | Scale<br>9 |                           |    |  |  |
|------------------------|------------------|----------------------------|--------|----------------------|--------------|--------------|------------------------------------------------------------------------------------|-------------------------------------------------|------------|---------------------------|----|--|--|
|                        |                  | Depth (m)                  | Type   | Results              |              |              |                                                                                    |                                                 |            |                           |    |  |  |
|                        |                  | 10.00 – 11.00              | B      | N=22 (2,2/3,4,5,10)  | 15.00        | 67.88        |  | Driller notes firm, brown, boulder CLAY.<br>CGT | 10         |                           |    |  |  |
|                        |                  | 10.50                      | SPT(S) |                      |              |              |                                                                                    |                                                 |            |                           |    |  |  |
|                        |                  | 11.00 – 12.00              | B      | Ublow=69             |              |              |                                                                                    |                                                 | 11         |                           |    |  |  |
|                        |                  | 12.00 – 12.45              | U      |                      |              |              |                                                                                    |                                                 |            |                           |    |  |  |
|                        |                  | 12.00 – 13.00              | B      |                      |              |              |                                                                                    |                                                 | 12         |                           |    |  |  |
|                        |                  | 13.00 – 14.00              | B      | N=37 (4,5/7,8,10,12) |              |              |                                                                                    |                                                 | 13         |                           |    |  |  |
|                        |                  | 13.50                      | SPT(S) |                      |              |              |                                                                                    |                                                 |            |                           |    |  |  |
| 14.00 – 15.00          | B                |                            | 14     |                      |              |              |                                                                                    |                                                 |            |                           |    |  |  |
|                        |                  |                            |        |                      |              |              |                                                                                    |                                                 |            | End of Borehole at 15.00m | 15 |  |  |
|                        |                  |                            |        |                      |              |              |                                                                                    | 16                                              |            |                           |    |  |  |
|                        |                  |                            |        |                      |              |              |                                                                                    | 17                                              |            |                           |    |  |  |
|                        |                  |                            |        |                      |              |              |                                                                                    | 18                                              |            |                           |    |  |  |
|                        |                  |                            |        |                      |              |              |                                                                                    | 19                                              |            |                           |    |  |  |

| Hole Diameter |          | Casing Diameter |          | Chiselling     |                |                |      | Inclination and Orientation |      |             |             | Installation   |                |                  |          |
|---------------|----------|-----------------|----------|----------------|----------------|----------------|------|-----------------------------|------|-------------|-------------|----------------|----------------|------------------|----------|
| Depth Base    | Diameter | Depth Base      | Diameter | Depth Top      | Depth Base     | Duration       | Tool | Top                         | Base | Inclination | Orientation | Top            | Base           | Pipe Type        | Diameter |
| 15.00m        | 200mm    | 9.50m           | 200mm    | 1.20m<br>1.50m | 2.20m<br>2.80m | 01:20<br>01:00 |      |                             |      |             |             | 0.00m<br>1.00m | 1.00m<br>7.00m | PLAIN<br>SLOTTED |          |

**Remarks**  
 Inspection pit hand dug to 1.20m bgl.  
 Approximate percentage by volume quantifiers as follows; rare (<5%), occasional (5-20%), frequent (20-40%) and abundant (>40%).  
 Borehole terminated as target depth achieved and / or no significant sand lenses encountered at depth.

# Cable Percussive Borehole Log

BOREHOLE REFERENCE

**CP206**

Sheet 1 of 2

|                              |                                |                                |
|------------------------------|--------------------------------|--------------------------------|
| Project Name: Ten Acres Lane | Client: NUVU Developments Ltd  | Date: 20/04/2022 - 22/04/2022  |
| Location: Newton Heath       | Contractor: Geotron Ltd        | Co-ords: E387698.92 N400248.88 |
| Project No. : LD10385        | Drilling Equipment: Dando 2500 | Level : 86.76m AoD             |

|                 |                  |                   |                         |                       |
|-----------------|------------------|-------------------|-------------------------|-----------------------|
| Logged By<br>JP | Checked By<br>JC | Approved By<br>MP | SPT Energy Ratio<br>65% | Final Depth<br>15.00m |
|-----------------|------------------|-------------------|-------------------------|-----------------------|

| Install. / Backfill | Water Strikes | Sample and In Situ Testing |        |                              | Depth (m) | Level (m) | Legend | Stratum Description                                                                                                                                             | Scale |
|---------------------|---------------|----------------------------|--------|------------------------------|-----------|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|                     |               | Depth (m)                  | Type   | Results                      |           |           |        |                                                                                                                                                                 |       |
|                     |               | 1.00 – 1.50                | B      |                              |           |           |        | Recovered as brown, orange and grey mottled, very sandy, clayey, angular to subangular, fine to coarse GRAVEL of red brick, sandstone and concrete. GMG         | 1     |
|                     |               | 1.50                       | SPT(S) | N=2 (1,0/1,0,1,0)            |           |           |        |                                                                                                                                                                 | 2     |
|                     |               | 2.20 – 2.50                | B      |                              | 2.20      | 84.56     |        | Driller notes black ASH / SAND with red bricks and concrete CW                                                                                                  |       |
|                     |               | 2.80 – 3.00                | B      |                              | 2.80      | 83.96     |        | Recovered as firm, greyish brown, slightly gravelly, sandy CLAY. Gravel is subangular of fine to medium red brick, concrete and mixed lithologies. CMG          | 3     |
|                     |               | 3.00                       | SPT(S) | N=15 (1,2/1,2,4,8)           | 3.10      | 83.66     |        | Recovered as soft to firm, black, slightly gravelly, sandy CLAY. Gravel is subangular of fine to medium red brick, concrete and mixed lithologies. CMG          |       |
|                     |               | 4.00                       | B      |                              |           |           |        |                                                                                                                                                                 | 4     |
|                     |               | 4.50 – 5.00                | B      |                              |           |           |        |                                                                                                                                                                 |       |
|                     |               | 5.00                       | SPT(S) | N=16 (4,3/4,2,5,5)           |           |           |        |                                                                                                                                                                 | 5     |
|                     |               | 5.50 – 6.00                | B      |                              | 5.50      | 81.26     |        | Stiff to very stiff, greyish brown, slightly sandy, slightly gravelly CLAY. Gravel is subangular to subrounded of fine to medium mixed natural lithologies. CGT | 6     |
|                     |               | 6.50                       | SPT(S) | N=29 (2,5/5,6,8,10)          |           |           |        |                                                                                                                                                                 | 7     |
|                     |               | 8.50                       | SPT(S) | 50 (25,0 for 0mm/50 for 0mm) |           |           |        |                                                                                                                                                                 | 8     |
|                     |               |                            |        |                              |           |           |        |                                                                                                                                                                 | 9     |

| Hole Diameter |          | Casing Diameter |          | Chiselling              |                          |                         |      | Inclination and Orientation |      |             |             | Installation   |                 |                  |          |
|---------------|----------|-----------------|----------|-------------------------|--------------------------|-------------------------|------|-----------------------------|------|-------------|-------------|----------------|-----------------|------------------|----------|
| Depth Base    | Diameter | Depth Base      | Diameter | Depth Top               | Depth Base               | Duration                | Tool | Top                         | Base | Inclination | Orientation | Top            | Base            | Pipe Type        | Diameter |
| 15.00m        | 200mm    | 4.50m           | 200mm    | 2.20m<br>7.00m<br>8.50m | 3.00m<br>8.00m<br>10.00m | 01:00<br>00:45<br>01:00 |      |                             |      |             |             | 0.00m<br>6.00m | 6.00m<br>15.00m | PLAIN<br>SLOTTED |          |

Remarks

Inspection pit hand dug to 1.20m bgl.

Approximate percentage by volume quantifiers as follows; rare (<5%), occasional (5-20%), frequent (20-40%) and abundant (>40%).

Borehole terminated as target depth achieved and / or no significant sand lenses encountered at depth.

Log printed on 13/09/2022 at 13:09

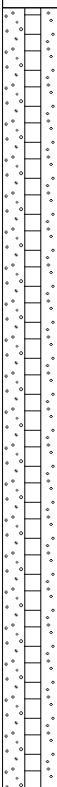
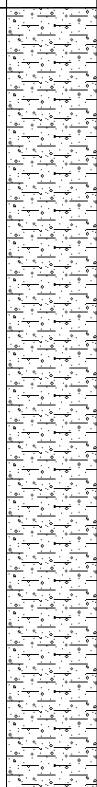
# Cable Percussive Borehole Log

BOREHOLE REFERENCE

**CP206**

Sheet 2 of 2

|                              |                  |                                |                         |                                |  |
|------------------------------|------------------|--------------------------------|-------------------------|--------------------------------|--|
| Project Name: Ten Acres Lane |                  | Client: NUVU Developments Ltd  |                         | Date: 20/04/2022 - 22/04/2022  |  |
| Location: Newton Heath       |                  | Contractor: Geotron Ltd        |                         | Co-ords: E387698.92 N400248.88 |  |
| Project No. : LD10385        |                  | Drilling Equipment: Dando 2500 |                         | Level : 86.76m AoD             |  |
| Logged By<br>JP              | Checked By<br>JC | Approved By<br>MP              | SPT Energy Ratio<br>65% | Final Depth<br>15.00m          |  |

| Install. /<br>Backfill                                                             | Water<br>Strikes | Sample and In Situ Testing |        |                              | Depth<br>(m) | Level<br>(m) | Legend                                                                             | Stratum Description                                                                                                                                                | Scale |
|------------------------------------------------------------------------------------|------------------|----------------------------|--------|------------------------------|--------------|--------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|                                                                                    |                  | Depth (m)                  | Type   | Results                      |              |              |                                                                                    |                                                                                                                                                                    |       |
|  |                  | 10.60                      | SPT(S) | N=42 (2,4/4,7,14,17)         | 15.00        | 71.76        |  | Stiff to very stiff, greyish brown, slightly sandy, slightly gravelly CLAY. Gravel is subangular to subrounded of fine to medium mixed natural lithologies.<br>CGT | 10    |
|                                                                                    |                  | 11.50                      | SPT(S) | N=47 (5,8/12,10,10,15)       |              |              |                                                                                    |                                                                                                                                                                    | 11    |
|                                                                                    |                  | 12.00 – 12.50              | B      |                              |              |              |                                                                                    |                                                                                                                                                                    | 12    |
|                                                                                    |                  | 13.00                      | SPT(S) | N=65 (2,4/11,17,22,15)       |              |              |                                                                                    |                                                                                                                                                                    | 13    |
|                                                                                    |                  | 13.70 – 14.10              | B      |                              |              |              |                                                                                    |                                                                                                                                                                    | 14    |
|                                                                                    |                  | 14.50                      | SPT(S) | 50 (25,0 for 0mm/50 for 0mm) |              |              |                                                                                    | 13.50m : Drillers notes becoming hard from 13.50m.                                                                                                                 | 15    |
|                                                                                    |                  |                            |        |                              |              |              |                                                                                    | End of Borehole at 15.00m                                                                                                                                          | 16    |
|                                                                                    |                  |                            |        |                              |              |              |                                                                                    |                                                                                                                                                                    | 17    |
|                                                                                    |                  |                            |        |                              |              |              |                                                                                    |                                                                                                                                                                    | 18    |
|                                                                                    |                  |                            |        |                              |              |              |                                                                                    |                                                                                                                                                                    | 19    |

| Hole Diameter |          | Casing Diameter |          | Chiselling              |                          |                         |      | Inclination and Orientation |      |             |             | Installation   |                 |                  |          |
|---------------|----------|-----------------|----------|-------------------------|--------------------------|-------------------------|------|-----------------------------|------|-------------|-------------|----------------|-----------------|------------------|----------|
| Depth Base    | Diameter | Depth Base      | Diameter | Depth Top               | Depth Base               | Duration                | Tool | Top                         | Base | Inclination | Orientation | Top            | Base            | Pipe Type        | Diameter |
| 15.00m        | 200mm    | 4.50m           | 200mm    | 2.20m<br>7.00m<br>8.50m | 3.00m<br>8.00m<br>10.00m | 01:00<br>00:45<br>01:00 |      |                             |      |             |             | 0.00m<br>6.00m | 6.00m<br>15.00m | PLAIN<br>SLOTTED |          |

**Remarks**  
Inspection pit hand dug to 1.20m bgl.  
Approximate percentage by volume quantifiers as follows; rare (<5%), occasional (5-20%), frequent (20-40%) and abundant (>40%).  
Borehole terminated as target depth achieved and / or no significant sand lenses encountered at depth.

Log printed on 13/09/2022 at 13:09

# Cable Percussive Borehole Log

BOREHOLE REFERENCE  
**CP207**  
Sheet 1 of 3

|                              |                                |                                |
|------------------------------|--------------------------------|--------------------------------|
| Project Name: Ten Acres Lane | Client: NUVU Developments Ltd  | Date: 23/03/2022 - 29/03/2022  |
| Location: Newton Heath       | Contractor: Geotron Ltd        | Co-ords: E387606.75 N400224.81 |
| Project No. : LD10385        | Drilling Equipment: Dando 2500 | Level : 82.77m AoD             |

|                      |                  |                   |                         |                       |
|----------------------|------------------|-------------------|-------------------------|-----------------------|
| Logged By<br>JP & MS | Checked By<br>JC | Approved By<br>MP | SPT Energy Ratio<br>68% | Final Depth<br>20.10m |
|----------------------|------------------|-------------------|-------------------------|-----------------------|

| Instal. / Backfill                                                                 | Water Strikes                                                                     | Sample and In Situ Testing |             |                      | Depth (m)    | Level (m)      | Legend | Stratum Description                                                                                                                                                                                                                                                                                                                                                                                                             | Scale |
|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------|-------------|----------------------|--------------|----------------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|                                                                                    |                                                                                   | Depth (m)                  | Type        | Results              |              |                |        |                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |
|  |  | 0.00 – 1.00                | B           |                      |              |                |        | Recovered as brown, slightly sandy GRAVEL with occasional cobble sized fragments of red brick, timber and concrete. Gravel is angular to subrounded of fine to coarse red brick, concrete, timber and mixed lithologies. Occasional roots and rootlets.<br>GMG                                                                                                                                                                  |       |
|                                                                                    |                                                                                   | 1.00 – 2.00                | B           |                      | 1.00         | 81.77          |        | Recovered as brown, slightly sandy, slightly clayey GRAVEL with rare cobble sized fragments of red brick. Gravel is angular to subrounded of fine to coarse red brick, sandstone, coal, glass, concrete and mixed lithologies.<br>GMG                                                                                                                                                                                           | 1     |
|                                                                                    |                                                                                   | 1.50                       | SPT(S)      | N=22 (1,3/4,9,7,2)   |              |                |        |                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |
|                                                                                    |                                                                                   | 2.00 – 3.00                | B           |                      | 2.00         | 80.77          |        | Recovered as brown, slightly sandy GRAVEL with frequent cobble sized fragments of red brick, concrete, polystyrene, plastic, glass, timber, sandstone, leather and slate. Gravel is angular to subangular, fine to coarse of the above.<br>GMG                                                                                                                                                                                  | 2     |
|                                                                                    |                                                                                   | 3.00 – 4.00<br>3.10        | B<br>SPT(S) | N=18 (2,5/9,3,3,3)   | 3.00         | 79.77          |        | Recovered as brown, very sandy, slightly clayey GRAVEL with frequent cobble sized inclusions of red brick, metal, plastic, fabric and slate. Gravel is angular to subangular, fine to coarse of the above. Frequent screws, bolts, plastic sheeting fragments and metal wire.<br>GMG                                                                                                                                            | 3     |
|                                                                                    |                                                                                   | 4.00 – 5.00                | B           |                      | 4.00         | 78.77          |        | Recovered as reddish brown, very gravelly SAND with occasional cobble sized fragments of red brick, metal and timber. Gravel is angular to subrounded of fine to coarse red brick, timber, metal plastic and mixed lithologies. Occasional wire and nails.<br>GMG                                                                                                                                                               | 4     |
|                                                                                    |                                                                                   | 4.50                       | SPT(S)      | N=31 (16,9/9,9,8,5)  |              |                |        |                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |
|                                                                                    |                                                                                   | 5.00 – 6.00                | B           |                      | 5.00         | 77.77          |        | Recovered as wet, dark brown to dark grey, sandy, silty GRAVEL with occasional cobble sized inclusions of firm, brown, sandy, gravelly clay. Gravel is angular to subrounded of fine to coarse red brick, timber, metal, ceramics and mudstone. Occasional roots and rootlets.<br>GMG                                                                                                                                           | 5     |
|                                                                                    |                                                                                   | 6.00 – 7.00<br>6.00        | B<br>SPT(S) | N=13 (2,1/0,1,6,6)   | 6.00         | 76.77          |        | Recovered as damp dark brown to dark grey, sandy GRAVEL with occasional cobble sized fragments of red brick and concrete. Gravel is angular to subrounded of fine to coarse red brick, plastic, tile, metal and concrete. Occasional plastic bag fragments.<br>GMG                                                                                                                                                              | 6     |
|                                                                                    |                                                                                   | 6.50                       | SPT(S)      | N=30 (4,6/6,7,7,10)  |              |                |        |                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |
|                                                                                    |                                                                                   | 7.00 – 8.00                | B           |                      | 7.00         | 75.77          |        | Recovered as wet, dark brown to dark grey, sandy, slightly clayey GRAVEL with occasional cobble sized fragments of red brick and ceramics. Gravel is angular to subrounded of fine to coarse red brick, metal, plastic, tile, timber and mixed lithologies. Occasional roots.<br>GMG                                                                                                                                            | 7     |
|                                                                                    |                                                                                   | 7.50                       | SPT(S)      | N=34 (3,8/11,11,7,5) |              |                |        |                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |
|                                                                                    |                                                                                   | 8.00 – 9.00                | B           |                      |              |                |        |                                                                                                                                                                                                                                                                                                                                                                                                                                 | 8     |
|                                                                                    |                                                                                   | 9.00 – 10.00<br>9.00       | B<br>SPT(S) | N=19 (1,1/1,1,1,16)  | 8.90<br>9.00 | 73.87<br>73.77 |        | Recovered as soft, wet, dark brown, mottled dark grey and black, slightly sandy, gravelly CLAY. Gravel is angular to subrounded of fine to coarse mudstone, concrete, timber, metal and red brick.<br>CMG<br>Recovered as damp, dark brown, sandy, clayey GRAVEL with occasional cobble sized fragments of red brick and suspected ACM. Gravel is angular to subrounded of fine to coarse red brick, timber and plastic.<br>GMG | 9     |

| Hole Diameter |          | Casing Diameter |          | Chiselling                          |                                     |                                  |      | Inclination and Orientation |      |             |             | Installation    |                  |                  |          |
|---------------|----------|-----------------|----------|-------------------------------------|-------------------------------------|----------------------------------|------|-----------------------------|------|-------------|-------------|-----------------|------------------|------------------|----------|
| Depth Base    | Diameter | Depth Base      | Diameter | Depth Top                           | Depth Base                          | Duration                         | Tool | Top                         | Base | Inclination | Orientation | Top             | Base             | Pipe Type        | Diameter |
| 20.00m        | 200mm    | 19.40m          | 200mm    | 4.00m<br>10.00m<br>18.70m<br>16.50m | 5.00m<br>10.50m<br>19.00m<br>19.00m | 01:00<br>00:40<br>00:45<br>02:00 |      |                             |      |             |             | 0.00m<br>17.50m | 17.50m<br>19.00m | PLAIN<br>SLOTTED |          |

Remarks  
Inspection pit hand dug to 1.20m bgl.  
Approximate percentage by volume quantifiers as follows; rare (<5%), occasional (5-20%), frequent (20-40%) and abundant (>40%).  
Borehole terminated as target depth achieved and / or no significant sand lenses encountered at depth.

# Cable Percussive Borehole Log

BOREHOLE REFERENCE  
**CP207**  
Sheet 2 of 3

|                              |                                |                                |
|------------------------------|--------------------------------|--------------------------------|
| Project Name: Ten Acres Lane | Client: NUVU Developments Ltd  | Date: 23/03/2022 - 29/03/2022  |
| Location: Newton Heath       | Contractor: Geotron Ltd        | Co-ords: E387606.75 N400224.81 |
| Project No. : LD10385        | Drilling Equipment: Dando 2500 | Level : 82.77m AoD             |

|                      |                  |                   |                         |                       |
|----------------------|------------------|-------------------|-------------------------|-----------------------|
| Logged By<br>JP & MS | Checked By<br>JC | Approved By<br>MP | SPT Energy Ratio<br>68% | Final Depth<br>20.10m |
|----------------------|------------------|-------------------|-------------------------|-----------------------|

| Instal. / Backfill                                                                 | Water Strikes | Sample and In Situ Testing      |                  |                        | Depth (m) | Level (m) | Legend                                                                              | Stratum Description                                                                                                                                                                                                                                                                                  | Scale |
|------------------------------------------------------------------------------------|---------------|---------------------------------|------------------|------------------------|-----------|-----------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|                                                                                    |               | Depth (m)                       | Type             | Results                |           |           |                                                                                     |                                                                                                                                                                                                                                                                                                      |       |
|  |               | 10.00 – 11.00<br>10.00 – 11.00  | B<br>B           |                        | 10.00     | 72.77     |    | Recovered as damp, dark brown, sandy, clayey GRAVEL with occasional cobble sized fragments of red brick and suspected ACM. Gravel is angular to subrounded of fine to coarse red brick, timber and plastic.<br>GMG                                                                                   | 10    |
|                                                                                    |               | 10.50                           | SPT(S)           | N=19 (6,5/3,8,5,3)     |           |           |                                                                                     | Recovered as dark brown to dark grey, sandy, clayey GRAVEL with occasional cobble sized fragments of timber and metal. Gravel is angular to subangular of fine to coarse red brick, slate, plastic, timber and suspected slag.<br>GMG                                                                | 11    |
|                                                                                    |               | 11.00 – 12.00                   | B                |                        | 11.00     | 71.77     |    | Recovered as dark grey to dark brown, sandy, clayey GRAVEL with frequent cobble sized fragments of red brick, suspected slag and timber board. Gravel is angular to subrounded of fine to coarse red brick, plastic, suspected slag, plastic and mixed lithologies. Slight hydrocarbon odour.<br>GMG | 12    |
|                                                                                    |               | 12.00 – 13.00<br>12.00          | B<br>SPT(S)      | N=14 (1,2/2,3,3,6)     | 12.10     | 70.67     |                                                                                     | Soft to firm, dark brown, slightly sandy, slightly gravelly CLAY. Gravel is subangular to rounded of fine to coarse mixed natural lithologies.<br>CGT                                                                                                                                                | 13    |
|                                                                                    |               | 13.00 – 14.00                   | B                |                        |           |           |    |                                                                                                                                                                                                                                                                                                      | 14    |
|                                                                                    |               | 13.50                           | SPT(S)           | N=21 (2,3/3,5,6,7)     | 13.50     | 69.27     |                                                                                     | Firm, dark brown, slightly sandy, slightly gravelly CLAY. Gravel is subangular to rounded of fine to coarse mixed natural lithologies.<br>CGT<br><i>13.50m - 13.95m : Some dark brown to black sand recovered from the SPT tool.</i>                                                                 | 15    |
|                                                                                    |               | 14.00 – 15.00                   | B                |                        |           |           |   |                                                                                                                                                                                                                                                                                                      | 16    |
|                                                                                    |               | 15.00 – 15.45<br>15.00 – 16.00  | U<br>B           | Ublow=120              | 15.00     | 67.77     |                                                                                     | Stiff, brown, slightly sandy, slightly gravelly CLAY. Gravel is angular to subangular of fine to coarse coal and mixed natural lithologies.<br>CGT<br><i>16.00m : Becoming sandy from 16.00m.</i>                                                                                                    | 17    |
|                                                                                    |               | 16.00 – 17.00                   | B                |                        |           |           |  |                                                                                                                                                                                                                                                                                                      | 18    |
|                                                                                    |               | 16.50                           | SPT(S)           | N=30 (4,6/6,7,7,10)    |           |           |                                                                                     |                                                                                                                                                                                                                                                                                                      | 19    |
|                                                                                    |               | 17.00 – 18.00                   | B                |                        | 17.50     | 65.27     |  | Dense, wet, brown SAND. Driller notes cobbles.<br>GGT                                                                                                                                                                                                                                                | 20    |
|                                                                                    |               | 18.00<br>18.00 – 19.00<br>18.00 | B<br>B<br>SPT(S) | N=48 (4,8/8,10,15,15)  |           |           |                                                                                     |                                                                                                                                                                                                                                                                                                      | 21    |
|                                                                                    |               | 18.70                           | SPT(S)           | N=40 (8,9/10,10,10,10) |           |           |  |                                                                                                                                                                                                                                                                                                      | 22    |
|                                                                                    |               | 19.00 – 20.00                   | B                |                        | 19.10     | 63.67     |                                                                                     | Recovered as firm, probably stiff as recovered from the SPT tool, wet, dark brown, slightly sandy, slightly gravelly CLAY. Gravel is subangular to subrounded of fine to coarse red sandstone, coal and mixed natural lithologies.<br>CGT                                                            | 23    |

| Hole Diameter |          | Casing Diameter |          | Chiselling                          |                                     |                                  |      | Inclination and Orientation |      |             |             | Installation    |                  |                  |          |
|---------------|----------|-----------------|----------|-------------------------------------|-------------------------------------|----------------------------------|------|-----------------------------|------|-------------|-------------|-----------------|------------------|------------------|----------|
| Depth Base    | Diameter | Depth Base      | Diameter | Depth Top                           | Depth Base                          | Duration                         | Tool | Top                         | Base | Inclination | Orientation | Top             | Base             | Pipe Type        | Diameter |
| 20.00m        | 200mm    | 19.40m          | 200mm    | 4.00m<br>10.00m<br>18.70m<br>16.50m | 5.00m<br>10.50m<br>19.00m<br>19.00m | 01:00<br>00:40<br>00:45<br>02:00 |      |                             |      |             |             | 0.00m<br>17.50m | 17.50m<br>19.00m | PLAIN<br>SLOTTED |          |

Remarks  
Inspection pit hand dug to 1.20m bgl.  
Approximate percentage by volume quantifiers as follows; rare (<5%), occasional (5-20%), frequent (20-40%) and abundant (>40%).  
Borehole terminated as target depth achieved and / or no significant sand lenses encountered at depth.

# Cable Percussive Borehole Log

BOREHOLE REFERENCE  
**CP207**  
Sheet 3 of 3

|                              |                                |                                |
|------------------------------|--------------------------------|--------------------------------|
| Project Name: Ten Acres Lane | Client: NUVU Developments Ltd  | Date: 23/03/2022 - 29/03/2022  |
| Location: Newton Heath       | Contractor: Geotron Ltd        | Co-ords: E387606.75 N400224.81 |
| Project No. : LD10385        | Drilling Equipment: Dando 2500 | Level : 82.77m AoD             |

|                      |                  |                   |                         |                       |
|----------------------|------------------|-------------------|-------------------------|-----------------------|
| Logged By<br>JP & MS | Checked By<br>JC | Approved By<br>MP | SPT Energy Ratio<br>68% | Final Depth<br>20.10m |
|----------------------|------------------|-------------------|-------------------------|-----------------------|

| Instal. /<br>Backfill | Water<br>Strikes | Sample and In Situ Testing |      |           | Depth<br>(m) | Level<br>(m) | Legend                                                                            | Stratum Description                                                                                                                                                                                                                    | Scale |
|-----------------------|------------------|----------------------------|------|-----------|--------------|--------------|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|                       |                  | Depth (m)                  | Type | Results   |              |              |                                                                                   |                                                                                                                                                                                                                                        |       |
|                       |                  | 19.75                      | U    | Ublow=120 | 20.10        | 62.67        |  | Recovered as firm, probably stiff as recovered from the SPT tool, wet, dark brown, slightly sandy, slightly gravelly CLAY. Gravel is subangular to subrounded of fine to coarse red sandstone, coal and mixed natural lithologies. CGT | 20    |
|                       |                  |                            |      |           |              |              |                                                                                   | End of Borehole at 20.10m                                                                                                                                                                                                              | 21    |
|                       |                  |                            |      |           |              |              |                                                                                   |                                                                                                                                                                                                                                        | 22    |
|                       |                  |                            |      |           |              |              |                                                                                   |                                                                                                                                                                                                                                        | 23    |
|                       |                  |                            |      |           |              |              |                                                                                   |                                                                                                                                                                                                                                        | 24    |
|                       |                  |                            |      |           |              |              |                                                                                   |                                                                                                                                                                                                                                        | 25    |
|                       |                  |                            |      |           |              |              |                                                                                   |                                                                                                                                                                                                                                        | 26    |
|                       |                  |                            |      |           |              |              |                                                                                   |                                                                                                                                                                                                                                        | 27    |
|                       |                  |                            |      |           |              |              |                                                                                   |                                                                                                                                                                                                                                        | 28    |
|                       |                  |                            |      |           |              |              |                                                                                   |                                                                                                                                                                                                                                        | 29    |

| Hole Diameter |          | Casing Diameter |          | Chiselling                          |                                     |                                  |      | Inclination and Orientation |      |             |             | Installation    |                  |                  |          |
|---------------|----------|-----------------|----------|-------------------------------------|-------------------------------------|----------------------------------|------|-----------------------------|------|-------------|-------------|-----------------|------------------|------------------|----------|
| Depth Base    | Diameter | Depth Base      | Diameter | Depth Top                           | Depth Base                          | Duration                         | Tool | Top                         | Base | Inclination | Orientation | Top             | Base             | Pipe Type        | Diameter |
| 20.00m        | 200mm    | 19.40m          | 200mm    | 4.00m<br>10.00m<br>18.70m<br>16.50m | 5.00m<br>10.50m<br>19.00m<br>19.00m | 01:00<br>00:40<br>00:45<br>02:00 |      |                             |      |             |             | 0.00m<br>17.50m | 17.50m<br>19.00m | PLAIN<br>SLOTTED |          |

**Remarks**  
Inspection pit hand dug to 1.20m bgl.  
Approximate percentage by volume quantifiers as follows; rare (<5%), occasional (5-20%), frequent (20-40%) and abundant (>40%).  
Borehole terminated as target depth achieved and / or no significant sand lenses encountered at depth.

Log printed on 13/09/2022 at 13:09

# Cable Percussive Borehole Log

BOREHOLE REFERENCE

**CP208**

Sheet 1 of 2

|                              |                  |                                |                         |                                |  |
|------------------------------|------------------|--------------------------------|-------------------------|--------------------------------|--|
| Project Name: Ten Acres Lane |                  | Client: NUVU Developments Ltd  |                         | Date: 15/03/2022 - 17/03/2022  |  |
| Location: Newton Heath       |                  | Contractor: Geotron Ltd        |                         | Co-ords: E387562.18 N400340.68 |  |
| Project No. : LD10385        |                  | Drilling Equipment: Dando 2500 |                         | Level : 84.14m AoD             |  |
| Logged By<br>JC & MS         | Checked By<br>JC | Approved By<br>MP              | SPT Energy Ratio<br>68% | Final Depth<br>15.45m          |  |

| Install. / Backfill | Water Strikes | Sample and In Situ Testing |        |                     | Depth (m) | Level (m) | Legend | Stratum Description                                                                                                                                                                                                                                                                         | Scale |
|---------------------|---------------|----------------------------|--------|---------------------|-----------|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|                     |               | Depth (m)                  | Type   | Results             |           |           |        |                                                                                                                                                                                                                                                                                             |       |
|                     |               | 0.00 – 1.00                | B      |                     |           |           |        | Recovered as dark brown, very gravelly, very clayey, fine to medium SAND with occasional cobble sized fragments of red brick and concrete. Gravel is angular to subrounded of fine to coarse red brick, concrete, glass, ceramic, timber, plastic and suspected slag.<br>GMG                | 1     |
|                     |               | 1.50                       | SPT(S) | N=15 (3,3/4,5,3,3)  |           |           |        |                                                                                                                                                                                                                                                                                             |       |
|                     |               | 2.00 – 3.00                | B      |                     |           |           |        | 2.00m - 2.90m : Recovered with occasional cobble sized fragments of rubber and timber between 2.00m and 2.90m. Acid odour and rope also noted.                                                                                                                                              | 2     |
|                     |               | 2.90                       | SPT(S) | N=16 (4,13/5,4,4,3) | 2.90      | 81.24     |        | Recovered from the SPT tool as very stiff, dark brownish grey, stained black in places, slightly sandy, slightly gravelly CLAY. Gravel is angular of fine to coarse red brick and concrete. Acid / sweet odour.<br>CMG                                                                      | 3     |
|                     |               | 3.00 – 4.00                | B      |                     | 3.35      | 80.79     |        | Recovered as wet, black, very sandy, clayey GRAVEL with frequent cobble sized fragments of red brick and concrete and occasional cobble sized inclusions of firm, brown, slightly sandy clay. Gravel is angular of fine to coarse red brick, timber and concrete. Hydrocarbon odour.<br>GMG | 4     |
|                     |               | 4.40                       | SPT(S) | N=10 (2,2/3,4,1,2)  |           |           |        | 4.00m : Sweet / hydrocarbon odour from 4.00m.                                                                                                                                                                                                                                               |       |
|                     |               | 5.00 – 6.00                | B      |                     | 5.10      | 79.04     |        | Initially soft, becoming firm to stiff, brown, slightly sandy, slightly gravelly CLAY. Gravel is subangular of fine mixed natural lithologies.<br>CGT                                                                                                                                       | 5     |
|                     |               | 6.00                       | SPT(S) | N=8 (8,6/1,2,2,3)   | 6.10      | 78.04     |        | Firm to stiff, brown CLAY with rare angular, fine gravel of mixed natural lithologies.<br>CGT                                                                                                                                                                                               | 6     |
|                     |               | 6.30 – 7.50                | B      |                     | 6.80      | 77.34     |        | Soft to firm, damp, brown, silty CLAY.<br>CGT                                                                                                                                                                                                                                               | 7     |
|                     |               | 7.50 – 8.50                | B      |                     | 7.30      | 76.84     |        | Firm to stiff, brown, slightly sandy, slightly gravelly CLAY. Gravel is angular to rounded of fine to coarse mixed natural lithologies.<br>CGT                                                                                                                                              | 8     |
|                     |               | 7.50                       | SPT(S) | N=27 (3,4/5,7,7,8)  |           |           |        |                                                                                                                                                                                                                                                                                             |       |
|                     |               | 9.00 – 10.00               | B      |                     | 9.40      | 74.74     |        | Wet, brown, very sandy, subangular to subrounded, fine to medium GRAVEL of mixed natural lithologies.<br>GGT                                                                                                                                                                                | 9     |
|                     |               | 9.00                       | SPT(S) | N=26 (2,3/6,6,7,7)  | 9.80      | 74.34     |        |                                                                                                                                                                                                                                                                                             |       |

| Hole Diameter |          | Casing Diameter |          | Chiselling |            |          |      | Inclination and Orientation |      |             |             | Installation   |                 |                  |          |
|---------------|----------|-----------------|----------|------------|------------|----------|------|-----------------------------|------|-------------|-------------|----------------|-----------------|------------------|----------|
| Depth Base    | Diameter | Depth Base      | Diameter | Depth Top  | Depth Base | Duration | Tool | Top                         | Base | Inclination | Orientation | Top            | Base            | Pipe Type        | Diameter |
| 15.00m        | 200mm    | 11.50m          | 200mm    | 12.30m     | 15.00m     | 02:30    |      |                             |      |             |             | 0.00m<br>9.00m | 9.00m<br>12.00m | PLAIN<br>SLOTTED |          |

Remarks

Inspection pit hand dug to 1.20m bgl.

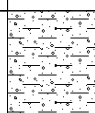
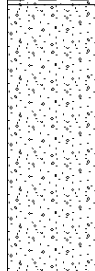
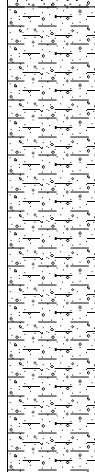
Approximate percentage by volume quantifiers as follows; rare (<5%), occasional (5-20%), frequent (20-40%) and abundant (>40%).

Borehole terminated as target depth achieved and / or no significant sand lenses encountered at depth.

# Cable Percussive Borehole Log

BOREHOLE REFERENCE  
**CP208**  
Sheet 2 of 2

|                              |                  |                                |                         |                                |  |
|------------------------------|------------------|--------------------------------|-------------------------|--------------------------------|--|
| Project Name: Ten Acres Lane |                  | Client: NUVU Developments Ltd  |                         | Date: 15/03/2022 - 17/03/2022  |  |
| Location: Newton Heath       |                  | Contractor: Geotron Ltd        |                         | Co-ords: E387562.18 N400340.68 |  |
| Project No. : LD10385        |                  | Drilling Equipment: Dando 2500 |                         | Level : 84.14m AoD             |  |
| Logged By<br>JC & MS         | Checked By<br>JC | Approved By<br>MP              | SPT Energy Ratio<br>68% | Final Depth<br>15.45m          |  |

| Install. / Backfill                                                                | Water Strikes                                                                      | Sample and In Situ Testing |             |                      | Depth (m) | Level (m) | Legend                                                                             | Stratum Description                                                                                                                                                                                | Scale |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|----------------------------|-------------|----------------------|-----------|-----------|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|                                                                                    |                                                                                    | Depth (m)                  | Type        | Results              |           |           |                                                                                    |                                                                                                                                                                                                    |       |
|  |  | 10.00 – 10.50              | B           |                      | 10.50     | 73.64     |   | Recovered as soft to stiff, probably stiff as noted by drillers, brown, slightly sandy, slightly gravelly CLAY. Gravel is subrounded of fine to coarse mixed natural lithologies. CGT              | 10    |
|                                                                                    |                                                                                    | 10.50 – 11.50<br>10.50     | B<br>SPT(S) | N=23 (2,3/4,5,7,7)   |           |           |   | Medium dense, wet, brown, slightly gravelly SAND. Gravel is subrounded of fine mixed natural lithologies. GGT                                                                                      | 11    |
|                                                                                    |                                                                                    | 12.00                      | SPT(S)      | N=12 (1,2/3,3,3,3)   | 12.30     | 71.84     |  |                                                                                                                                                                                                    | 12    |
|                                                                                    |                                                                                    | 12.50 – 13.40              | B           |                      |           |           |                                                                                    | Recovered as soft to firm, probably stiff as noted by drillers, brown, slightly sandy, slightly gravelly CLAY. Gravel is subangular to subrounded of fine to coarse mixed natural lithologies. CGT | 13    |
|                                                                                    |                                                                                    | 13.40                      | SPT(S)      | N=18 (2,2/3,5,5,5)   |           |           |                                                                                    | 13.50m : Recovered as firm to stiff from 13.50m.                                                                                                                                                   | 14    |
|                                                                                    |                                                                                    | 15.00                      | SPT(S)      | N=34 (3,4/7,7,10,10) | 15.45     | 68.69     | 15.00m : Recovered as stiff from 15.00m.                                           | 15                                                                                                                                                                                                 |       |
|                                                                                    |                                                                                    | End of Borehole at 15.45m  |             |                      |           |           |                                                                                    |                                                                                                                                                                                                    | 16    |
|                                                                                    |                                                                                    |                            |             |                      |           |           |                                                                                    |                                                                                                                                                                                                    | 17    |
|                                                                                    |                                                                                    |                            |             |                      |           |           |                                                                                    |                                                                                                                                                                                                    | 18    |
|                                                                                    |                                                                                    |                            |             |                      |           |           |                                                                                    |                                                                                                                                                                                                    | 19    |

| Hole Diameter |          | Casing Diameter |          | Chiselling |            |          |      | Inclination and Orientation |      |             |             | Installation   |                 |                  |          |
|---------------|----------|-----------------|----------|------------|------------|----------|------|-----------------------------|------|-------------|-------------|----------------|-----------------|------------------|----------|
| Depth Base    | Diameter | Depth Base      | Diameter | Depth Top  | Depth Base | Duration | Tool | Top                         | Base | Inclination | Orientation | Top            | Base            | Pipe Type        | Diameter |
| 15.00m        | 200mm    | 11.50m          | 200mm    | 12.30m     | 15.00m     | 02:30    |      |                             |      |             |             | 0.00m<br>9.00m | 9.00m<br>12.00m | PLAIN<br>SLOTTED |          |

**Remarks**  
Inspection pit hand dug to 1.20m bgl.  
Approximate percentage by volume quantifiers as follows; rare (<5%), occasional (5-20%), frequent (20-40%) and abundant (>40%).  
Borehole terminated as target depth achieved and / or no significant sand lenses encountered at depth.

Log printed on 13/09/2022 at 13:09

# Cable Percussive Borehole Log

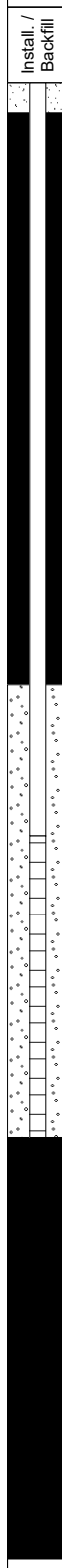
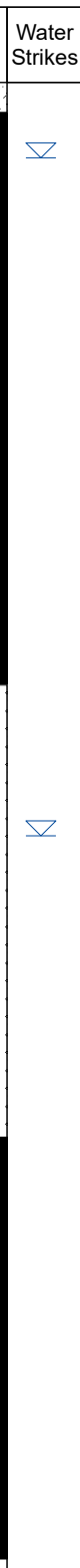
BOREHOLE REFERENCE

**CP209**

Sheet 1 of 2

|                              |                                |                                |
|------------------------------|--------------------------------|--------------------------------|
| Project Name: Ten Acres Lane | Client: NUVU Developments Ltd  | Date: 18/03/2022 - 21/03/2022  |
| Location: Newton Heath       | Contractor: Geotron Ltd        | Co-ords: E387246.39 N400130.44 |
| Project No. : LD10385        | Drilling Equipment: Dando 2500 | Level : 75.89m AoD             |

|                 |                  |                   |                         |                       |
|-----------------|------------------|-------------------|-------------------------|-----------------------|
| Logged By<br>MS | Checked By<br>JC | Approved By<br>MP | SPT Energy Ratio<br>68% | Final Depth<br>15.00m |
|-----------------|------------------|-------------------|-------------------------|-----------------------|

| Instal. /<br>Backfill                                                              | Water<br>Strikes                                                                   | Sample and In Situ Testing |        |                    | Depth<br>(m) | Level<br>(m) | Legend | Stratum Description                                                                                                                                                                                        | Scale |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|----------------------------|--------|--------------------|--------------|--------------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|                                                                                    |                                                                                    | Depth (m)                  | Type   | Results            |              |              |        |                                                                                                                                                                                                            |       |
|  |  | 0.00 – 1.00                | B      |                    |              |              |        | Recovered as brown, very sandy GRAVEL with frequent cobble sized fragments of red brick. Gravel is angular to subrounded of fine to coarse red brick. Occasional nails. GMG                                |       |
|                                                                                    |                                                                                    | 1.00 – 2.00                | B      |                    | 1.30         | 74.59        |        | Recovered as soft to firm, brown to black, slightly sandy, slightly gravelly CLAY. Gravel is angular to subrounded of fine to coarse mixed lithologies. CMG                                                | 1     |
|                                                                                    |                                                                                    | 1.50                       | SPT(S) | N=2 (1,1/0,1,0,1)  |              |              |        |                                                                                                                                                                                                            |       |
|                                                                                    |                                                                                    | 2.00 – 3.00                | B      |                    | 2.10         | 73.79        |        | Recovered as soft to firm, probably firm to stiff as noted by drillers, brown, slightly sandy, slightly gravelly CLAY. Gravel is subangular to subrounded of fine to coarse mixed natural lithologies. CGT | 2     |
|                                                                                    |                                                                                    | 3.00 – 4.00                | B      |                    |              |              |        |                                                                                                                                                                                                            |       |
|                                                                                    |                                                                                    | 3.00                       | SPT(S) | N=27 (3,4/5,6,7,9) |              |              |        |                                                                                                                                                                                                            |       |
|                                                                                    |                                                                                    | 4.00 – 5.00                | B      |                    |              |              |        | 4.00m - 5.00m : Occasional cobbles recovered between 4.00m and 5.00m.                                                                                                                                      | 4     |
|                                                                                    |                                                                                    | 4.50                       | SPT(S) | N=25 (2,3/4,5,8,8) |              |              |        |                                                                                                                                                                                                            |       |
|                                                                                    |                                                                                    | 5.00 – 6.00                | B      |                    | 5.00         | 70.89        |        | Recovered as wet, brown, very gravelly, very clayey SAND. Gravel is subangular to subrounded of fine to coarse mixed natural lithologies. GGT                                                              | 5     |
|                                                                                    |                                                                                    | 6.00 – 7.00                | B      |                    |              |              |        |                                                                                                                                                                                                            |       |
|                                                                                    |                                                                                    | 6.00                       | SPT(S) | N=13 (2,2/2,2,4,5) | 6.30         | 69.59        |        | Recovered as soft to stiff, probably firm as noted by drillers, brown, slightly sandy, slightly gravelly CLAY. Gravel is subangular to subrounded of fine to medium mixed natural lithologies. CGT         | 6     |
|                                                                                    |                                                                                    | 7.00 – 8.00                | B      |                    |              |              |        | 7.00m - 8.00m : Recovered as wet between 7.00m and 8.00m.                                                                                                                                                  | 7     |
|                                                                                    |                                                                                    | 7.50                       | SPT(S) | N=18 (2,4/4,4,5,5) |              |              |        |                                                                                                                                                                                                            |       |
|                                                                                    |                                                                                    | 8.00 – 9.00                | B      |                    | 8.00         | 67.89        |        | Firm, brown, slightly sandy, slightly gravelly CLAY. Gravel is angular to subrounded of fine to coarse mudstone and sandstone. CGT                                                                         | 8     |
|                                                                                    |                                                                                    | 9.00 – 10.00               | B      |                    |              |              |        | 8.00m - 8.45m : Recovered from the SPT tool as mottled orangish red between 8.00m and 8.45m.                                                                                                               | 9     |
|                                                                                    |                                                                                    | 9.00                       | SPT(S) | N=22 (4,4/4,5,6,7) |              |              |        |                                                                                                                                                                                                            |       |

| Hole Diameter |          | Casing Diameter |          | Chiselling |            |          |      | Inclination and Orientation |      |             |             | Installation   |                |                  |          |
|---------------|----------|-----------------|----------|------------|------------|----------|------|-----------------------------|------|-------------|-------------|----------------|----------------|------------------|----------|
| Depth Base    | Diameter | Depth Base      | Diameter | Depth Top  | Depth Base | Duration | Tool | Top                         | Base | Inclination | Orientation | Top            | Base           | Pipe Type        | Diameter |
| 15.00m        | 200mm    | 7.40m           | 200mm    | 13.50m     | 15.00m     | 01:30    |      |                             |      |             |             | 0.00m<br>5.00m | 5.00m<br>7.00m | PLAIN<br>SLOTTED |          |

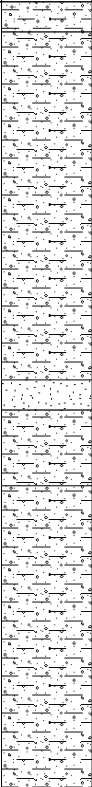
**Remarks**  
 Inspection pit hand dug to 1.20m bgl.  
 Approximate percentage by volume quantifiers as follows; rare (<5%), occasional (5-20%), frequent (20-40%) and abundant (>40%).  
 Borehole terminated as target depth achieved and / or no significant sand lenses encountered at depth.

# Cable Percussive Borehole Log

BOREHOLE REFERENCE  
**CP209**  
Sheet 2 of 2

|                              |                                |                                |
|------------------------------|--------------------------------|--------------------------------|
| Project Name: Ten Acres Lane | Client: NUVU Developments Ltd  | Date: 18/03/2022 - 21/03/2022  |
| Location: Newton Heath       | Contractor: Geotron Ltd        | Co-ords: E387246.39 N400130.44 |
| Project No. : LD10385        | Drilling Equipment: Dando 2500 | Level : 75.89m AoD             |

|                 |                  |                   |                         |                       |
|-----------------|------------------|-------------------|-------------------------|-----------------------|
| Logged By<br>MS | Checked By<br>JC | Approved By<br>MP | SPT Energy Ratio<br>68% | Final Depth<br>15.00m |
|-----------------|------------------|-------------------|-------------------------|-----------------------|

| Instal. /<br>Backfill | Water<br>Strikes | Sample and In Situ Testing |        |                        | Depth<br>(m) | Level<br>(m) | Legend                                                                             | Stratum Description                                                                                                                                                                                                 | Scale |
|-----------------------|------------------|----------------------------|--------|------------------------|--------------|--------------|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|                       |                  | Depth (m)                  | Type   | Results                |              |              |                                                                                    |                                                                                                                                                                                                                     |       |
|                       |                  | 10.00 – 11.00              | B      | N=26 (2,3/4,6,7,9)     | 10.00        | 65.89        |  | Firm, brown, slightly sandy, slightly gravelly CLAY. Gravel is angular to subrounded of fine to coarse mudstone and sandstone.<br>CGT                                                                               | 10    |
|                       |                  | 10.50                      | SPT(S) |                        |              |              |                                                                                    | Firm to stiff, wet, dark brown, slightly sandy, slightly gravelly CLAY. Gravel is angular to subrounded of fine to coarse sandstone, mudstone, quartz and coal.<br>CGT                                              |       |
|                       |                  | 11.00 – 12.00              | B      | N=39 (10,12/13,10,8,8) |              |              |                                                                                    | 11.00m : No longer wet from 11.00m.                                                                                                                                                                                 | 11    |
|                       |                  | 12.00 – 13.00              | B      |                        |              |              |                                                                                    |                                                                                                                                                                                                                     |       |
|                       |                  | 12.00                      | SPT(S) |                        | 12.50        | 63.39        |                                                                                    | Driller notes SAND.<br>GGT                                                                                                                                                                                          | 12    |
|                       |                  |                            |        |                        | 12.50        | 63.39        |                                                                                    | Recovered as very soft, probably stiff as noted by drillers, wet, brown, slightly gravelly, sandy CLAY. Gravel is angular to subrounded of fine to coarse mudstone, sandstone, quartz and mixed lithologies.<br>CGT |       |
|                       |                  | 13.00 – 14.00              | B      |                        | 13.00        | 62.89        |                                                                                    | Driller notes stiff, brown CLAY.<br>CGT                                                                                                                                                                             | 13    |
|                       |                  | 13.50                      | SPT(S) |                        |              |              |                                                                                    |                                                                                                                                                                                                                     | 14    |
|                       |                  |                            |        |                        |              |              |                                                                                    |                                                                                                                                                                                                                     |       |
|                       |                  |                            |        |                        | 15.00        | 60.89        |                                                                                    | End of Borehole at 15.00m                                                                                                                                                                                           | 15    |
|                       |                  |                            |        |                        |              |              |                                                                                    |                                                                                                                                                                                                                     | 16    |
|                       |                  |                            |        |                        |              |              |                                                                                    |                                                                                                                                                                                                                     | 17    |
|                       |                  |                            |        |                        |              |              |                                                                                    |                                                                                                                                                                                                                     | 18    |
|                       |                  |                            |        |                        |              |              |                                                                                    |                                                                                                                                                                                                                     | 19    |

| Hole Diameter |          | Casing Diameter |          | Chiselling |            |          |      | Inclination and Orientation |      |             |             | Installation   |                |                  |          |
|---------------|----------|-----------------|----------|------------|------------|----------|------|-----------------------------|------|-------------|-------------|----------------|----------------|------------------|----------|
| Depth Base    | Diameter | Depth Base      | Diameter | Depth Top  | Depth Base | Duration | Tool | Top                         | Base | Inclination | Orientation | Top            | Base           | Pipe Type        | Diameter |
| 15.00m        | 200mm    | 7.40m           | 200mm    | 13.50m     | 15.00m     | 01:30    |      |                             |      |             |             | 0.00m<br>5.00m | 5.00m<br>7.00m | PLAIN<br>SLOTTED |          |

Remarks  
Inspection pit hand dug to 1.20m bgl.  
Approximate percentage by volume quantifiers as follows; rare (<5%), occasional (5-20%), frequent (20-40%) and abundant (>40%).  
Borehole terminated as target depth achieved and / or no significant sand lenses encountered at depth.