

## Land Adjacent to 94 George Street, Reading

### Remediation Scope (Draft)

#### Background

Following site investigation and risk assessment works undertaken by WSP on behalf of Reading Borough Council ("The Client"), potential risks to future site users (residents) were identified which will require mitigation to render the site suitable for a future residential end-use. These risks comprise:

- Risks to future site users from contaminants (asbestos, TPH, PAHs and metals) within shallow Made Ground soils located in future soft-cover areas; and
- Risks to future site users from ground gases and soil vapours.

#### Remediation Objectives

The main objective of the remediation works is to mitigate potential risks to future site users.

#### Remediation Strategy

The remediation objective shall be achieved by providing pathway-breaks between the contaminant sources and the receptor (future residents), in the form of a cover system in future soft-cover areas and installation of gas / vapour protection measures as part of the building construction.

The remediation strategy comprises the following principal elements:

- Excavation and removal of a minimum of 600 mm of soil across future soft-cover areas;
- Disposal of soils to a suitably licensed waste facility;
- Installation of a geomembrane at the bases and sides of the excavations to act as a warning / separation layer;
- Reinstatement with suitable imported material; and
- Installation of gas / vapour protection measures.

#### Preparatory Work

Decommissioning of the existing borehole and window-sample installations is required prior to the remediation strategy being implemented. The locations of these are shown on Drawing No. 70044279 / 101. Decommissioning shall comprise removal of head-works and infilling with bentonite grout in line with the current Environment Agency guidance.

For details of the borehole / window-sample installations, refer to the exploratory hole logs provided in Appendix A.

## Excavation and Disposal

The aim is to achieve 100% removal of material within future soft-cover areas, to a minimum depth of 600 mm below final ground levels. The future soft-cover areas i.e. the remediation areas, are shown on Drawing No. 70044279 / 102.

Representative soil samples will be taken from excavated soil materials for laboratory analysis, and the materials classified before being disposed of to an appropriately licensed facility.

## Reinstatement

Prior to reinstatement, a geomembrane (e.g. Terram T1000 orange, or similar approved) will be placed over the bases of the excavations and lapped against the excavation sides. The membrane will also require lapping against the bases and sides of any tree pits excavated within future soft-cover areas.

Reinstatement shall be in accordance with the landscaping design. Where the specified depths of topsoil / subsoil in the landscaping design are less than the 600 mm excavation depth, the difference shall be made-up by increasing the thickness of sub-soil.

## Gas / Vapour Protection Membrane

Refer to details included in the building design.

## Verification

The excavation levels (formation levels) shall be topographically surveyed and photographed prior to reinstatement. A topographical survey shall then be undertaken post-reinstatement (final ground levels) to demonstrate that sufficient thickness of clean cover has been placed.

The following records shall be provided for inclusion in the Verification Report:

- The sub-contractor shall provide records:
- Specification of selected geomembrane;
- Excavation quantities;
- Waste classification testing data;
- Waste disposal records, including tickets and consignment notes, details of waste disposal facilities;
- Details of imported materials used in reinstatement;
- Photographic record; and
- Topographic survey information, including excavation levels and final ground levels.

## Drawings

70044279 / 101 – Exploratory Holes to be Decommissioned

70044279 / 102 – Remediation Areas

## Appendices

Appendix A – Exploratory Hole Logs



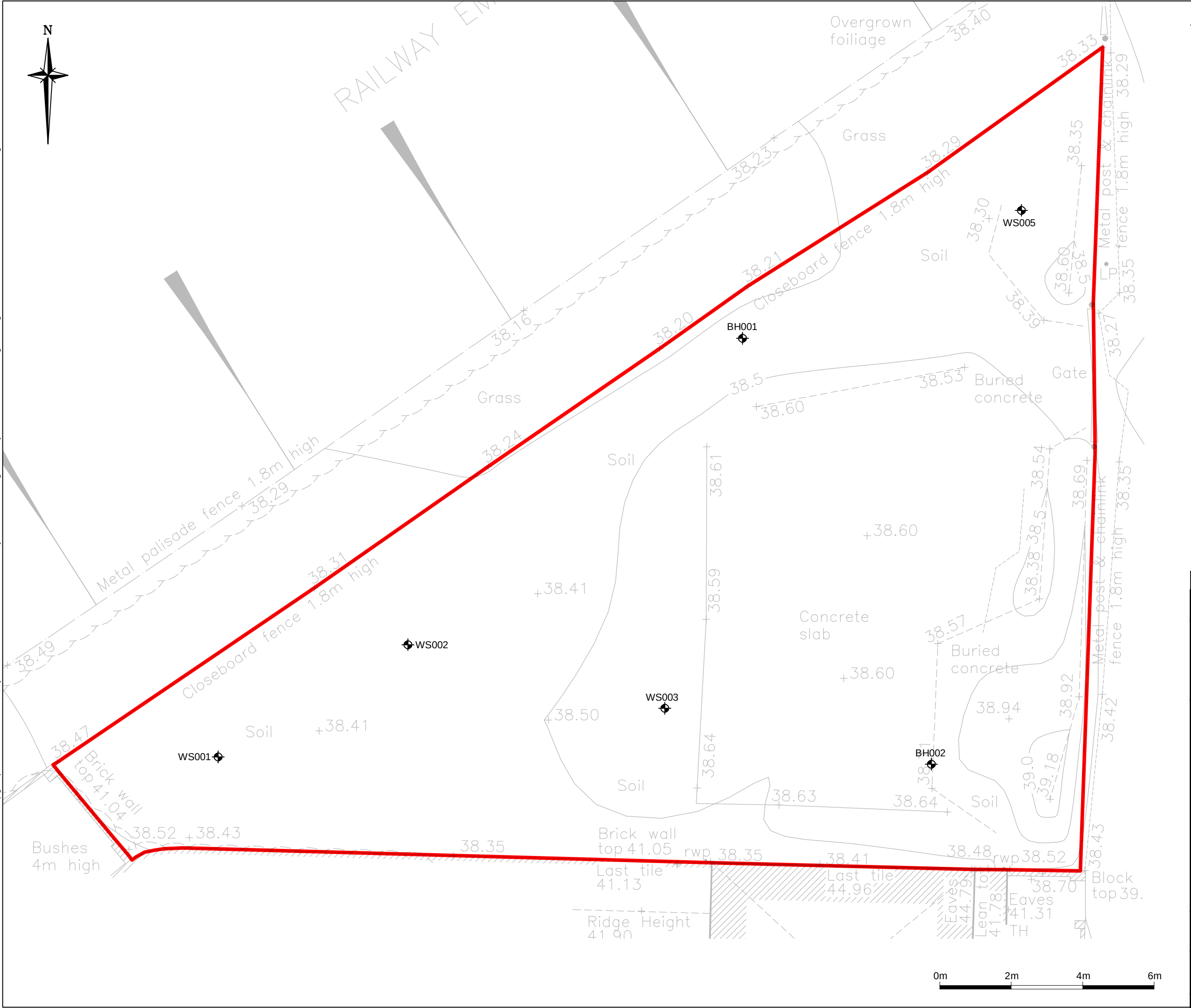
- KEY
- SITE BOUNDARY

BH

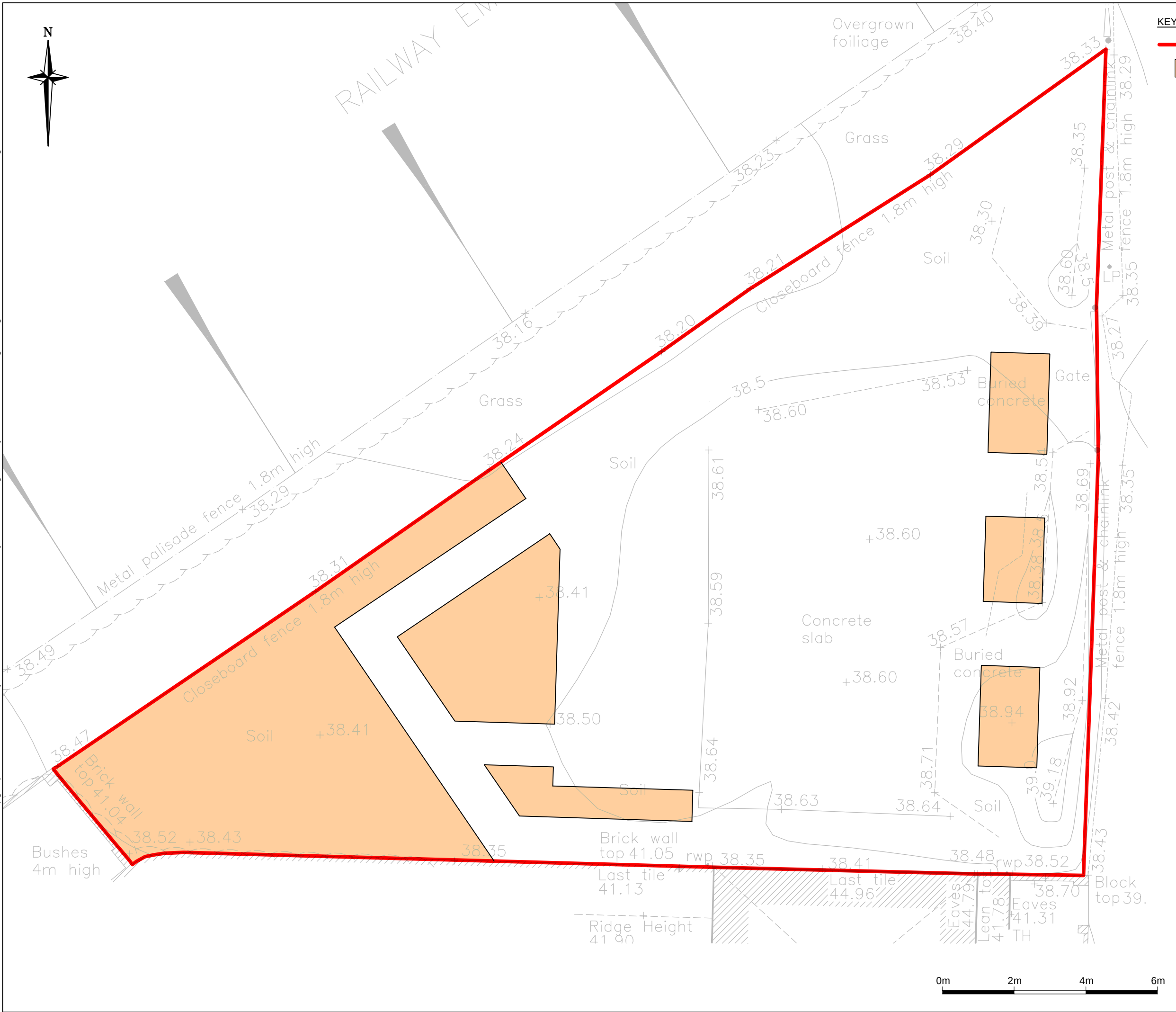
BOREHOLE

WS

WINDOW SAMPLE



| Rev                                                                                                                                                                            | Date       | Description     | By           | Chk       | App    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------------|--------------|-----------|--------|
|                                                                                                                                                                                |            |                 |              |           |        |
| <div><div><div><div></div><div></div></div><div><div>Kings Orchard</div><div>1 Queen Street</div><div>Bristol BS2 0HQ</div></div><div>Tel: 44-(0)1179-306200</div></div></div> |            |                 |              |           |        |
| Client: <div>READING BOROUGH COUNCIL</div>                                                                                                                                     |            |                 |              |           |        |
| Site/Project: <div>GEORGE STREET READING</div>                                                                                                                                 |            |                 |              |           |        |
| Title: <div>EXPLORATORY HOLES TO BE DECOMMISSIONED</div>                                                                                                                       |            |                 |              |           |        |
| Drawn: CEW                                                                                                                                                                     |            |                 | Checked: JW  |           |        |
| Designed: JW                                                                                                                                                                   |            |                 | Approved: PD |           |        |
| Date:                                                                                                                                                                          | 13/06/2019 | Scale:          | 1:100        | A3        | Sheet: |
| Project Number:                                                                                                                                                                |            | Drawing Number: |              | Revision: |        |
| 70044279                                                                                                                                                                       |            | 101             |              |           |        |
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KEY

SITE BOUNDARY

REMEDIATION AREA - COVER SYSTEM

| Rev                                                                                                                                                                                                                                          | Date | Description | By | Chk | App |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------------|----|-----|-----|
| <div> <div>  <div> <div>Kings Orchard</div> <div>1 Queen Street</div> <div>Bristol BS2 0HQ</div> </div> <div>Tel: 44-(0)1179-306200</div> </div> </div> |      |             |    |     |     |
| <div>Client:</div> <div>READING BOROUGH COUNCIL</div>                                                                                                                                                                                        |      |             |    |     |     |

| Site/Project:  GEORGE STREET READING | | | | | |

| Title:  REMEDIATION AREAS | | | | | |

| Drawn: CEW | | | Checked: JW | | |
| Designed: JW | | | Approved: PD | | |
| Date: 14/06/2019 | | Scale: 1:100 | A3 | Sheet: | |
| Project Number: | | | Drawing Number: | | Revision: |
| 70044279 | | | 102 | |  |

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|                                                                                                                    |                                   |                 |                                                    |                                |
|--------------------------------------------------------------------------------------------------------------------|-----------------------------------|-----------------|----------------------------------------------------|--------------------------------|
| <div><br/>WSP<br/>Telephone:</div> | <b>BOREHOLE LOG</b>               |                 | Hole No.<br><b>BH001</b>                           |                                |
|                                                                                                                    | Project<br>George Street, Reading |                 | Sheet<br>1 of 3                                    |                                |
| Job No<br><b>70044279</b>                                                                                          | Client<br>Reading Borough Council |                 | Date<br>03-04-19<br>04-04-19                       |                                |
| Contractor / Driller<br>Geotechnical Engineering                                                                   | Method/Plant Used<br>Pioneer Rig  | Logged By<br>DC | Co-Ordinates (NGR)<br>E 470550.993<br>N 173751.687 | Ground Level (m AOD)<br>38.465 |

| SAMPLES & TESTS |      |                           |            |             |               |       | STRATA       |                   |                                                                                                                                                                                                                                                                                    |                                                                                       |         | Install / Backfill |
|-----------------|------|---------------------------|------------|-------------|---------------|-------|--------------|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------|--------------------|
| Depth           | Type | Test Result               | PID (ppmV) | HSV (kN/m2) | P Pen (kN/m2) | Water | Elev. (mAOD) | Depth (Thickness) | Description                                                                                                                                                                                                                                                                        | Legend                                                                                | Geology | Dia. mm            |
| 0.00-0.10       | ES   |                           |            |             |               |       |              |                   | Made Ground: comprising of soft consistency dark brown sandy gravelly Silt with low cobble content. Sand is fine to medium. Gravel is angular to subrounded fine to coarse of brick fragments, limestone aggregate and concrete fragments. Occassional fragments of Asbestos tile. |    | MG      |                    |
| 0.20            | ES   |                           |            |             |               |       | 38.07        | 0.40              |                                                                                                                                                                                                                                                                                    |                                                                                       | MG      |                    |
| 0.30-0.50       | ES   |                           |            |             |               |       |              |                   |                                                                                                                                                                                                                                                                                    |                                                                                       |         |                    |
| 0.50            | ES   |                           |            |             |               |       | 37.62        | 0.85              | Made Ground: comprising of soft consistency dark brown mottled orange brown sandy slightly gravelly Silt. Sand is fine to medium grained. Gravel is angular to subrounded fine to coarse of brick fragments, limestone aggregate and quartzite.                                    |    | MG      |                    |
| 1.20            | ES   |                           |            |             |               |       |              | (1.05)            |                                                                                                                                                                                                                                                                                    |                                                                                       | ALV     |                    |
| 1.50-1.95       | SPT  | 1.0.0<br>1.0.1<br>N=2(S)  |            |             |               |       | 36.57        | 1.90              | Soft consistency orange brown sandy slightly gravelly CLAY. Sand is fine to medium grained. Gravel is subangular to rounded fine to medium grained of flint. (Alluvium)                                                                                                            |    | ALV     |                    |
| 2.20            | ES   |                           |            |             |               |       | 36.07        | (0.50)<br>2.40    | Soft consistency dark grey sandy slightly gravelly CLAY. Sand is fine to medium grained. Gravel is subangular to subrounded fine to medium of flint. Hydrocarbon Odour. (Alluvium)                                                                                                 |    | ALV     |                    |
| 2.90            | D    |                           |            |             |               |       |              | (0.90)            | Grey brown sandy silty GRAVEL. Gravel is subanglar to rounded fine to medium of flint and quartzite. Sand is fine to coarse grained. Hydrocarbon odour. (Alluvium)                                                                                                                 |   | ALV     |                    |
| 3.00-3.45       | SPT  | 1.4.7<br>7.7.8<br>N=29(S) |            |             |               |       | 35.17        | 3.30              | Light brown sandy GRAVEL. Gravel is subangular to rounded, fine to medium grained of flint and quartz. Sand is medium to coarse. (Taplow Gravels)                                                                                                                                  |  | TG      |                    |
| 4.30            | D    |                           |            |             |               |       |              |                   |                                                                                                                                                                                                                                                                                    |                                                                                       |         |                    |
| 4.50-4.95       | SPT  | 2.3.7<br>7.5.3<br>N=22(S) |            |             |               |       |              |                   |                                                                                                                                                                                                                                                                                    |                                                                                       |         |                    |
| 5.10            | D    |                           |            |             |               |       |              | (3.70)            |                                                                                                                                                                                                                                                                                    |                                                                                       |         |                    |
| 6.00            | SPT  | 1.0.1<br>2.1.1<br>N=5(S)  |            |             |               |       |              |                   |                                                                                                                                                                                                                                                                                    |                                                                                       |         |                    |
|                 |      |                           |            |             |               |       | 31.47        | 7.00              |                                                                                                                                                                                                                                                                                    |                                                                                       |         |                    |
|                 |      |                           |            |             |               |       |              | (0.50)            | Recovered as clayey silty GRAVEL of CHALK. Chalk is considered weak. Frequent scattered flint. (Upper Chalk)                                                                                                                                                                       |  | UCK     |                    |
| 7.50            | SPT  | 1.3.3<br>2.2.3<br>N=10(S) |            |             |               |       | 30.97        | 7.50              |                                                                                                                                                                                                                                                                                    |                                                                                       |         |                    |
|                 |      |                           |            |             |               |       | 30.67        | 7.80              | No recovery                                                                                                                                                                                                                                                                        |  | UCK     |                    |
| 8.00            | ES   |                           |            |             |               |       |              |                   | Recovered as clayey silty GRAVEL of CHALK. Chalk is considered weak. Frequent scattered flint. (Upper Chalk)                                                                                                                                                                       |  |         |                    |
| 9.00            | D    |                           |            |             |               |       |              |                   |                                                                                                                                                                                                                                                                                    |                                                                                       |         |                    |
| 9.30-9.75       | SPT  | 3.2.2<br>5.4.6<br>N=17(S) |            |             |               |       |              |                   |                                                                                                                                                                                                                                                                                    |                                                                                       |         |                    |

| Boring Progress |      |                                                                                                                                                       |            |             |           | Water Strikes                                 |       |        |         |          |        |
|-----------------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------------|-----------|-----------------------------------------------|-------|--------|---------|----------|--------|
| Date            | Time | Depth                                                                                                                                                 | Casing Dpt | Dia. (mm)   | Water Dpt | Date                                          | Time  | Strike | Minutes | Standing | Casing |
|                 |      |                                                                                                                                                       |            |             |           | 03-04-19                                      | 09.00 | 1.50   | 20      | 1.40     | 1.40   |
| Chiselling      |      |                                                                                                                                                       |            | Water Added |           | General Remarks<br>Hole terminated at 12.75m. |       |        |         |          |        |
| From            | To   | Hours                                                                                                                                                 | Tool       | From        | To        |                                               |       |        |         |          |        |
|                 |      |                                                                                                                                                       |            |             |           |                                               |       |        |         |          |        |
| Scale 1:62.5    |      | Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification. |            |             |           |                                               |       |        |         |          |        |

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|                                                                                                                  |                                          |                                       |                                                            |
|------------------------------------------------------------------------------------------------------------------|------------------------------------------|---------------------------------------|------------------------------------------------------------|
| <br><b>WSP</b><br><br>Telephone: | <b>BOREHOLE LOG</b>                      |                                       | Hole No.<br><b>BH002</b>                                   |
|                                                                                                                  | Project<br><b>George Street, Reading</b> |                                       | Sheet<br><b>1 of 3</b>                                     |
| Job No<br><b>70044279</b>                                                                                        | Client<br><b>Reading Borough Council</b> |                                       | Date<br><b>04-04-19<br/>05-04-19</b>                       |
| Contractor / Driller<br><b>Geotechnical Engineering</b>                                                          | Method/Plant Used<br><b>Pioneer Rig</b>  | Logged By<br><b>DC</b>                | Co-Ordinates (NGR)<br><b>E 470556.279<br/>N 173739.756</b> |
|                                                                                                                  |                                          | Ground Level (m AOD)<br><b>38.647</b> |                                                            |

| SAMPLES & TESTS                |                |                             |            |             |               |       | STRATA       |                   |                                                                                                                                                                                                                                                    |                                                                                       |         | Install / Backfill |
|--------------------------------|----------------|-----------------------------|------------|-------------|---------------|-------|--------------|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------|--------------------|
| Depth                          | Type           | Test Result                 | PID (ppmV) | HSV (kN/m2) | P Pen (kN/m2) | Water | Elev. (mAOD) | Depth (Thickness) | Description                                                                                                                                                                                                                                        | Legend                                                                                | Geology | Dia. mm            |
| 0.30<br>0.50                   | ES<br>ES       |                             | 67<br>32   |             |               |       |              | (1.40)            | Made Ground: comprising of dark brown gravelly silty fine to coarse grained Sand. Gravel is angular to subangular fine to coarse of brick, concrete, limestone aggregate and flint.                                                                |    | MG      |                    |
| 1.00-1.00                      | ES             |                             |            |             |               |       | 37.25        | 1.40              |                                                                                                                                                                                                                                                    |                                                                                       |         |                    |
| 1.50                           | SPT            | 1.0,0<br>1.0,1<br>N=2(S)    | 17         |             |               |       |              | (0.70)            | Soft to very soft consistency interlaminated light brown/red brown/grey brown very sandy SILT/CLAY. Lamination are fine, extremely closely spaced of fine to medium grained Sand. Occasional scattered subangular fine to coarse flint. (Alluvium) |    | ALV     |                    |
| 1.70<br>1.70-1.80<br>2.10      | D<br>ES<br>SPT | 3.3,6<br>4.5,6<br>N=21(S)   | 16         |             |               |       |              | (0.70)            | Light brown clayey silty slightly gravelly SAND. Sand is fine to coarse grained. Gravel is rounded to subangular fine to coarse of flint (Alluvium)                                                                                                |    | ALV     |                    |
| 2.30-2.80<br>2.50<br>3.00-3.70 | B<br>ES<br>B   |                             |            |             |               |       |              | (0.90)            | Recovered as GRAVEL with medium cobble content. Gravel is grey, black, white, brown of subrounded flint. Cobbles of flint. (Alluvium)                                                                                                              |    | ALV     |                    |
| 4.00                           | D              |                             |            |             |               |       |              | (0.70)            | Pale, light brown clayey gravelly silty Sand. Sand is fine to coarse grained. Gravel is subangular to subrounded fine to coarse of flint. (Alluvium)                                                                                               |   | ALV     |                    |
| 4.50                           | SPT            | 4.4,6<br>6.7,11<br>N=30(S)  |            |             |               |       |              | (0.80)            | No recovery                                                                                                                                                                                                                                        |  | ALV     |                    |
| 5.90<br>6.00<br>6.00           | D<br>ES<br>SPT | 1.6,5<br>2.3,2<br>N=12(S)   | 8          |             |               |       |              | (0.55)            | Recovered as GRAVEL with medium cobble content. Gravel is grey, black, white, brown of subrounded flint. Cobbles of flint. (Taplow Gravels)                                                                                                        |  | TG      |                    |
|                                |                |                             |            |             |               |       |              |                   | Brown gravelly SAND. Sand is fine to coarse grained. (Taplow Gravels)                                                                                                                                                                              |  | TG      |                    |
| 7.50                           | SPT            | 1.1,2<br>2.1,2<br>N=7(S)    |            |             |               |       |              | (1.10)            | Recovered as: White silty GRAVEL of CHALK. Gravel is considered weak to very weak medium density. (Upper Chalk)                                                                                                                                    |  | UCK     |                    |
| 8.50-8.80                      | B              |                             |            |             |               |       |              |                   | No recovery                                                                                                                                                                                                                                        |  | UCK     |                    |
| 9.00                           | SPT            | 2.4,4<br>4.17,12<br>N=37(S) |            |             |               |       |              |                   | 6.40 m bgl . Large cobble flint in liner                                                                                                                                                                                                           |  | UCK     |                    |
|                                |                |                             |            |             |               |       |              |                   | 9.00 m bgl Flint                                                                                                                                                                                                                                   |  | UCK     |                    |
|                                |                |                             |            |             |               |       |              |                   | 9.70 - 9.80 m bgl Flint band                                                                                                                                                                                                                       |  | UCK     |                    |

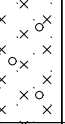
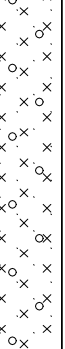
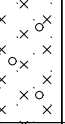
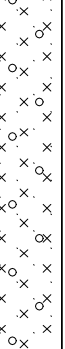
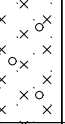
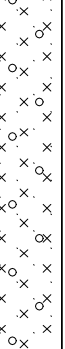
| Boring Progress |      |                                                                                                                                                       |            |           |             | Water Strikes                                 |      |        |         |          |        |
|-----------------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------|-------------|-----------------------------------------------|------|--------|---------|----------|--------|
| Date            | Time | Depth                                                                                                                                                 | Casing Dpt | Dia. (mm) | Water Dpt   | Date                                          | Time | Strike | Minutes | Standing | Casing |
|                 |      |                                                                                                                                                       |            |           |             |                                               |      |        |         |          |        |
| Chiselling      |      |                                                                                                                                                       |            |           | Water Added |                                               |      |        |         |          |        |
| From            | To   | Hours                                                                                                                                                 | Tool       | From      | To          | General Remarks<br>Hole terminated at 12.55m. |      |        |         |          |        |
|                 |      |                                                                                                                                                       |            |           |             |                                               |      |        |         |          |        |
| Scale 1:62.5    |      | Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification. |            |           |             |                                               |      |        |         |          |        |

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|                                                                                                       |                                   |                                   |                                                    |                                |
|-------------------------------------------------------------------------------------------------------|-----------------------------------|-----------------------------------|----------------------------------------------------|--------------------------------|
| <br>WSP<br>Telephone: | <h1>BOREHOLE LOG</h1>             |                                   | Hole No.<br><h2>BH002</h2>                         |                                |
|                                                                                                       | Project<br>George Street, Reading |                                   | Sheet<br>2 of 3                                    |                                |
| Job No<br>70044279                                                                                    |                                   | Client<br>Reading Borough Council |                                                    | Date<br>04-04-19<br>05-04-19   |
| Contractor / Driller<br>Geotechnical Engineering                                                      | Method/Plant Used<br>Pioneer Rig  | Logged By<br>DC                   | Co-Ordinates (NGR)<br>E 470556.279<br>N 173739.756 | Ground Level (m AOD)<br>38.647 |

| SAMPLES & TESTS |      |                            |            |             |               |       | STRATA       |                   |                                                                                                                                                                                                                                                                                                                             |        |         | Install / Backfill |
|-----------------|------|----------------------------|------------|-------------|---------------|-------|--------------|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|---------|--------------------|
| Depth           | Type | Test Result                | PID (ppmV) | HSV (kN/m2) | P Pen (kN/m2) | Water | Elev. (mAOD) | Depth (Thickness) | Description                                                                                                                                                                                                                                                                                                                 | Legend | Geology | Dia. mm            |
| 10.00-10.50     | B    |                            |            |             |               |       |              | (5.05)            | Recovered as: White silty GRAVEL of CHALK. Gravel is considered very weak medium density. Occasional weathering such as black speckling on chalk surfaces and orange brown staining. (Upper Chalk) <i>(continued)</i><br>10.30 - 10.35 m bgl Flint band<br>10.45 - 10.48 m bgl Flint<br>10.80 - 10.83 m bgl Scattered flint |        |         |                    |
| 11.00-11.20     | ES   |                            | 7          |             |               |       |              |                   |                                                                                                                                                                                                                                                                                                                             |        | UCK     |                    |
| 11.20           | SPT  | 5,5,5<br>5,9,12<br>N=31(S) |            |             |               |       |              |                   | 11.20 - 11.25 m bgl Scattered flint                                                                                                                                                                                                                                                                                         |        |         |                    |
| 12.00-12.50     | B    |                            |            |             |               |       |              |                   |                                                                                                                                                                                                                                                                                                                             |        |         |                    |
| 12.70           | SPT  | 6,5,5<br>5,6,11<br>N=27(S) |            |             |               |       | 26.10        | 12.55             | 12.50 - 12.55 m bgl Flint. Black rinded shattered flint cobbles and gravels.                                                                                                                                                                                                                                                |        |         |                    |

| Boring Progress |      |                                                                                                                                                       |            |             |           | Water Strikes                                 |      |        |         |          |        |
|-----------------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------------|-----------|-----------------------------------------------|------|--------|---------|----------|--------|
| Date            | Time | Depth                                                                                                                                                 | Casing Dpt | Dia. (mm)   | Water Dpt | Date                                          | Time | Strike | Minutes | Standing | Casing |
|                 |      |                                                                                                                                                       |            |             |           |                                               |      |        |         |          |        |
| Chiselling      |      |                                                                                                                                                       |            | Water Added |           | General Remarks<br>Hole terminated at 12.55m. |      |        |         |          |        |
| From            | To   | Hours                                                                                                                                                 | Tool       | From        | To        |                                               |      |        |         |          |        |
|                 |      |                                                                                                                                                       |            |             |           |                                               |      |        |         |          |        |
| Scale 1:62.5    |      | Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification. |            |             |           |                                               |      |        |         |          |        |

| <div><div><div>WSP</div><div>Telephone:</div></div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   | <div>WINDOW SAMPLE LOG</div>                                                                                                                                                                                                                                                                                                                                                               |                                                                                       |                                    |                                                                                     |                                                                                       | <div>Hole No.</div> <div>WS001</div>                    |                                                   |         |          |        |             |            |             |               |       |           |    |   |  |  |  |  |           |    |   |  |  |  |  |           |    |   |  |  |  |  |           |   |   |    |  |  |  |           |    |   |  |  |  |  |      |     |                         |  |  |  |  |           |    |   |    |  |  |  |           |   |   |  |  |  |  |      |   |   |  |  |  |  |      |     |                         |  |  |  |  |           |    |   |    |  |  |  |      |     |                         |  |  |  |  |           |   |   |  |  |  |  |      |     |                         |  |  |  |  |              |                   |             |        |         |                            |       |        |                                                                                                          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                                                                                                                                                                                                                                                                                                                                                                                                                                         |                   | <div>Project</div> <div>George Street, Reading</div>                                                                                                                                                                                                                                                                                                                                       |                                                                                       |                                    |                                                                                     |                                                                                       | <div>Sheet</div> <div>1 of 1</div>                      |                                                   |         |          |        |             |            |             |               |       |           |    |   |  |  |  |  |           |    |   |  |  |  |  |           |    |   |  |  |  |  |           |   |   |    |  |  |  |           |    |   |  |  |  |  |      |     |                         |  |  |  |  |           |    |   |    |  |  |  |           |   |   |  |  |  |  |      |   |   |  |  |  |  |      |     |                         |  |  |  |  |           |    |   |    |  |  |  |      |     |                         |  |  |  |  |           |   |   |  |  |  |  |      |     |                         |  |  |  |  |              |                   |             |        |         |                            |       |        |                          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| <div>Job No</div> <div>70044279</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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                                    |                                                                                       | <div>Date</div> <div>08-04-19</div> <div>08-04-19</div> |                                                   |         |          |        |             |            |             |               |       |           |    |   |  |  |  |  |           |    |   |  |  |  |  |           |    |   |  |  |  |  |           |   |   |    |  |  |  |           |    |   |  |  |  |  |      |     |                         |  |  |  |  |           |    |   |    |  |  |  |           |   |   |  |  |  |  |      |   |   |  |  |  |  |      |     |                         |  |  |  |  |           |    |   |    |  |  |  |      |     |                         |  |  |  |  |           |   |   |  |  |  |  |      |     |                         |  |  |  |  |              |                   |             |        |         |                            |       |        |                          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| <div>Contractor / Driller</div> <div>Geotechnical Engineering</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   | <div>Method/Plant Used</div> <div>Terrier Rig</div>                                                                                                                                                                                                                                                                                                                                        |                                                                                       | <div>Logged By</div> <div>DC</div> |                                                                                     | <div>Co-Ordinates (NGR)</div> <div>E 470536.301</div> <div>N 173739.960</div>         |                                                         | <div>Ground Level (m AOD)</div> <div>38.429</div> |         |          |        |             |            |             |               |       |           |    |   |  |  |  |  |           |    |   |  |  |  |  |           |    |   |  |  |  |  |           |   |   |    |  |  |  |           |    |   |  |  |  |  |      |     |                         |  |  |  |  |           |    |   |    |  |  |  |           |   |   |  |  |  |  |      |   |   |  |  |  |  |      |     |                         |  |  |  |  |           |    |   |    |  |  |  |      |     |                         |  |  |  |  |           |   |   |  |  |  |  |      |     |                         |  |  |  |  |              |                   |             |        |         |                            |       |        |                          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| <div><div><div>SAMPLES &amp; TESTS</div><table><tr><th>Depth</th><th>Type</th><th>Test Result</th><th>PID (ppmV)</th><th>HSV (kN/m2)</th><th>P Pen (kN/m2)</th><th>Water</th></tr><tr><td>0.15-0.15</td><td>ES</td><td>.</td><td></td><td></td><td></td><td></td></tr><tr><td>0.50-0.50</td><td>ES</td><td>.</td><td></td><td></td><td></td><td></td></tr><tr><td>1.10-1.10</td><td>ES</td><td>.</td><td></td><td></td><td></td><td></td></tr><tr><td>1.50-1.60</td><td>D</td><td>.</td><td>55</td><td></td><td></td><td></td></tr><tr><td>1.60-1.70</td><td>ES</td><td>.</td><td></td><td></td><td></td><td></td></tr><tr><td>2.00</td><td>(S)</td><td>2.5.9<br/>9.6.6<br/>N=30.</td><td></td><td></td><td></td><td></td></tr><tr><td>2.50-2.60</td><td>ES</td><td>.</td><td>29</td><td></td><td></td><td></td></tr><tr><td>2.60-3.00</td><td>B</td><td>.</td><td></td><td></td><td></td><td></td></tr><tr><td>2.70</td><td>D</td><td>.</td><td></td><td></td><td></td><td></td></tr><tr><td>3.00</td><td>(S)</td><td>3.3.6<br/>8.8.9<br/>N=31.</td><td></td><td></td><td></td><td></td></tr><tr><td>3.50-3.60</td><td>ES</td><td>.</td><td>11</td><td></td><td></td><td></td></tr><tr><td>4.00</td><td>(S)</td><td>3.2.2<br/>3.9.4<br/>N=18.</td><td></td><td></td><td></td><td></td></tr><tr><td>4.50-4.60</td><td>D</td><td>.</td><td></td><td></td><td></td><td></td></tr><tr><td>5.00</td><td>(S)</td><td>2.2.1<br/>3.3.3<br/>N=10.</td><td></td><td></td><td></td><td></td></tr></table></div><div><div>STRATA</div><table><tr><th>Elev. (mAOD)</th><th>Depth (Thickness)</th><th>Description</th><th>Legend</th><th>Geology</th><th>Install / Backfill Dia. mm</th></tr><tr><td>38.03</td><td>(0.40)</td><td>Made Ground: comprising of dark brown gravelly very silty Sand. Sand is fine to medium grained. Gravel is angular to subangular fine to coarse of brick, concrete fragments and flint. Occasional glass fragments.</td><td></td><td>MG</td><td></td></tr><tr><td>37.53</td><td>(0.50)</td><td>Made Ground: comprising of Orange brown and brown gravelly very silty fine to medium grained Sand. Gravel is angular to subangular fine to coarse of brick and concrete fragments and flints.</td><td></td><td>MG</td><td></td></tr><tr><td>36.83</td><td>(0.70)</td><td>Soft consistency orange brown slightly gravelly sandy SILT. Sand is fine to medium. Gravel is subangular to rounded fine to medium of flint and quartzite. (Alluvium)</td><td></td><td>ALV</td><td></td></tr><tr><td></td><td>1.60</td><td>Firm consistency to stiff cream/light brown/pale brown very sandy gravelly clayey SILT. Sand is fine to coarse. Gravel is subrounded fine to coarse of scattered chalk clasts. Frequent flint. Notable dark grey/black staining on surfaces with hydrocarbon odour. Occasional brown sandy lenses up to 100mm. (Alluvium)<br/>1.60 - 2.70 m bgl extent of hydrocarbon staining on surfaces.</td><td></td><td>ALV</td><td></td></tr><tr><td>34.93</td><td>3.50</td><td></td><td></td><td></td><td></td></tr><tr><td>34.63</td><td>(0.30)</td><td>Brown very gravelly SAND with medium cobble content. Sand is fine to coarse. Gravel is subrounded fine to coarse of flint. Cobbles of flint. (Alluvium)</td><td></td><td>ALV</td><td></td></tr><tr><td>34.33</td><td>(0.30)</td><td>Firm consistency to stiff cream/light brown/pale brown very sandy gravelly clayey SILT. Sand is fine to coarse. Gravel is subrounded fine to coarse of scattered chalk clasts. Frequent flint. Notable dark grey/black staining on surfaces with hydrocarbon odour. Occasional brown sandy lenses up to 100mm. (Alluvium)</td><td></td><td>ALV</td><td></td></tr><tr><td>33.43</td><td>(0.90)</td><td>Recovered as: White gravelly SILT of CHALK. Chalk gravels are weak to very weak. Frequent scattered flint notable at 4.50m and 4.75m. Frequent orange weathering staining on surfaces. (Upper Chalk)</td><td></td><td>UCK</td><td></td></tr></table></div></div> <div><table><tr><th colspan="3">Hole Diameter</th><th colspan="3">Recovery</th><th colspan="6">Water Strikes</th></tr><tr><th>Depth</th><th>Diameter (mm)</th><th>Remarks</th><th>Core Top (m)</th><th>Core Base (m)</th><th>% Recovery</th><th>Date</th><th>Time</th><th>Strike</th><th>Minutes</th><th>Standing</th><th>Casing</th></tr><tr><td>5.00</td><td>128</td><td>128</td><td></td><td></td><td></td><td>08-04-19</td><td>12.00</td><td>4.85</td><td>20</td><td>4.70</td><td>5.00</td></tr><tr><td colspan="6"></td><td colspan="6">General Remarks<br/>Hole terminated at 5.0m.<br/>Hole installed as gas monitoring well.</td></tr></table></div> <div><div>Scale 1:37.5</div><div>Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification.</div></div> |                   |                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                       |                                    |                                                                                     |                                                                                       |                                                         |                                                   |         | Depth    | Type   | Test Result | PID (ppmV) | HSV (kN/m2) | P Pen (kN/m2) | Water | 0.15-0.15 | ES | . |  |  |  |  | 0.50-0.50 | ES | . |  |  |  |  | 1.10-1.10 | ES | . |  |  |  |  | 1.50-1.60 | D | . | 55 |  |  |  | 1.60-1.70 | ES | . |  |  |  |  | 2.00 | (S) | 2.5.9<br>9.6.6<br>N=30. |  |  |  |  | 2.50-2.60 | ES | . | 29 |  |  |  | 2.60-3.00 | B | . |  |  |  |  | 2.70 | D | . |  |  |  |  | 3.00 | (S) | 3.3.6<br>8.8.9<br>N=31. |  |  |  |  | 3.50-3.60 | ES | . | 11 |  |  |  | 4.00 | (S) | 3.2.2<br>3.9.4<br>N=18. |  |  |  |  | 4.50-4.60 | D | . |  |  |  |  | 5.00 | (S) | 2.2.1<br>3.3.3<br>N=10. |  |  |  |  | Elev. (mAOD) | Depth (Thickness) | Description | Legend | Geology | Install / Backfill Dia. mm | 38.03 | (0.40) | Made Ground: comprising of dark brown gravelly very silty Sand. Sand is fine to medium grained. Gravel is angular to subangular fine to coarse of brick, concrete fragments and flint. Occasional glass fragments. |  | MG |  | 37.53 | (0.50) | Made Ground: comprising of Orange brown and brown gravelly very silty fine to medium grained Sand. Gravel is angular to subangular fine to coarse of brick and concrete fragments and flints. |  | MG |  | 36.83 | (0.70) | Soft consistency orange brown slightly gravelly sandy SILT. Sand is fine to medium. Gravel is subangular to rounded fine to medium of flint and quartzite. (Alluvium) |  | ALV |  |  | 1.60 | Firm consistency to stiff cream/light brown/pale brown very sandy gravelly clayey SILT. Sand is fine to coarse. Gravel is subrounded fine to coarse of scattered chalk clasts. Frequent flint. Notable dark grey/black staining on surfaces with hydrocarbon odour. Occasional brown sandy lenses up to 100mm. (Alluvium)<br>1.60 - 2.70 m bgl extent of hydrocarbon staining on surfaces. |  | ALV |  | 34.93 | 3.50 |  |  |  |  | 34.63 | (0.30) | Brown very gravelly SAND with medium cobble content. Sand is fine to coarse. Gravel is subrounded fine to coarse of flint. Cobbles of flint. (Alluvium) |  | ALV |  | 34.33 | (0.30) | Firm consistency to stiff cream/light brown/pale brown very sandy gravelly clayey SILT. Sand is fine to coarse. Gravel is subrounded fine to coarse of scattered chalk clasts. Frequent flint. Notable dark grey/black staining on surfaces with hydrocarbon odour. Occasional brown sandy lenses up to 100mm. (Alluvium) |  | ALV |  | 33.43 | (0.90) | Recovered as: White gravelly SILT of CHALK. Chalk gravels are weak to very weak. Frequent scattered flint notable at 4.50m and 4.75m. Frequent orange weathering staining on surfaces. (Upper Chalk) |  | UCK |  | Hole Diameter |  |  | Recovery |  |  | Water Strikes |  |  |  |  |  | Depth | Diameter (mm) | Remarks | Core Top (m) | Core Base (m) | % Recovery | Date | Time | Strike | Minutes | Standing | Casing | 5.00 | 128 | 128 |  |  |  | 08-04-19 | 12.00 | 4.85 | 20 | 4.70 | 5.00 |  |  |  |  |  |  | General Remarks<br>Hole terminated at 5.0m.<br>Hole installed as gas monitoring well. |  |  |  |  |  |
| Depth                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Type              | Test Result                                                                                                                                                                                                                                                                                                                                                                                | PID (ppmV)                                                                            | HSV (kN/m2)                        | P Pen (kN/m2)                                                                       | Water                                                                                 |                                                         |                                                   |         |          |        |             |            |             |               |       |           |    |   |  |  |  |  |           |    |   |  |  |  |  |           |    |   |  |  |  |  |           |   |   |    |  |  |  |           |    |   |  |  |  |  |      |     |                         |  |  |  |  |           |    |   |    |  |  |  |           |   |   |  |  |  |  |      |   |   |  |  |  |  |      |     |                         |  |  |  |  |           |    |   |    |  |  |  |      |     |                         |  |  |  |  |           |   |   |  |  |  |  |      |     |                         |  |  |  |  |              |                   |             |        |         |                            |       |        |                          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| 0.15-0.15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ES                | .                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                       |                                    |                                                 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| 0.50-0.50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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| 1.10-1.10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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| 1.50-1.60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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| 1.60-1.70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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| 2.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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| 2.50-2.60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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| 2.60-3.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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| 2.70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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| 3.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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| 3.50-3.60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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| 4.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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| 4.50-4.60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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| 5.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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| Elev. (mAOD)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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| 38.03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | (0.40)            | Made Ground: comprising of dark brown gravelly very silty Sand. Sand is fine to medium grained. Gravel is angular to subangular fine to coarse of brick, concrete fragments and flint. Occasional glass fragments.                                                                                                                                                                         |    | MG                                 |  |                                                                                       |                                                         |                                                   |         |          |        |             |            |             |               |       |           |    |   |  |  |  |  |           |    |   |  |  |  |  |           |    |   |  |  |  |  |           |   |   |    |  |  |  |           |    |   |  |  |  |  |      |     |                         |  |  |  |  |           |    |   |    |  |  |  |           |   |   |  |  |  |  |      |   |   |  |  |  |  |      |     |                         |  |  |  |  |           |    |   |    |  |  |  |      |     |                         |  |  |  |  |           |   |   |  |  |  |  |      |     |                         |  |  |  |  |              |                   |             |        |         |                            |       |        |                                                                                                                                                                                                                    |                                                                                     |    |                                                                                     |       |        |                                                                                                                                                                                               |                                                                                     |    |                                                                                     |       |        |                                                                                                                                                                       |                                                                                     |     |  |  |      |                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                      |     |  |       |      |  |  |  |  |       |        |                                                                                                                                                         |                                                                                       |     |  |       |        |                                                                                                                                                                                                                                                                                                                           |                                                                                       |     |  |       |        |                                                                                                                                                                                                      |                                                                                       |     |  |               |  |  |          |  |  |               |  |  |  |  |  |       |               |         |              |               |            |      |      |        |         |          |        |      |     |     |  |  |  |          |       |      |    |      |      |  |  |  |  |  |  |                                                                                       |  |  |  |  |  |
| 37.53                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | (0.50)            | Made Ground: comprising of Orange brown and brown gravelly very silty fine to medium grained Sand. Gravel is angular to subangular fine to coarse of brick and concrete fragments and flints.                                                                                                                                                                                              |    | MG                                 |  |                                                                                       |                                                         |                                                   |         |          |        |             |            |             |               |       |           |    |   |  |  |  |  |           |    |   |  |  |  |  |           |    |   |  |  |  |  |           |   |   |    |  |  |  |           |    |   |  |  |  |  |      |     |                         |  |  |  |  |           |    |   |    |  |  |  |           |   |   |  |  |  |  |      |   |   |  |  |  |  |      |     |                         |  |  |  |  |           |    |   |    |  |  |  |      |     |                         |  |  |  |  |           |   |   |  |  |  |  |      |     |                         |  |  |  |  |              |                   |             |        |         |                            |       |        |                                                                                                                                                                                                                    |                                                                                     |    |                                                                                     |       |        |                                                                                                                                                                                               |                                                                                     |    |                                                                                     |       |        |                                                                                                                                                                       |                                                                                     |     |  |  |      |                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                      |     |  |       |      |  |  |  |  |       |        |                                                                                                                                                         |                                                                                       |     |  |       |        |                                                                                                                                                                                                                                                                                                                           |                                                                                       |     |  |       |        |                                                                                                                                                                                                      |                                                                                       |     |  |               |  |  |          |  |  |               |  |  |  |  |  |       |               |         |              |               |            |      |      |        |         |          |        |      |     |     |  |  |  |          |       |      |    |      |      |  |  |  |  |  |  |                                                                                       |  |  |  |  |  |
| 36.83                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | (0.70)            | Soft consistency orange brown slightly gravelly sandy SILT. Sand is fine to medium. Gravel is subangular to rounded fine to medium of flint and quartzite. (Alluvium)                                                                                                                                                                                                                      |    | ALV                                |                                                                                     |                                                                                       |                                                         |                                                   |         |          |        |             |            |             |               |       |           |    |   |  |  |  |  |           |    |   |  |  |  |  |           |    |   |  |  |  |  |           |   |   |    |  |  |  |           |    |   |  |  |  |  |      |     |                         |  |  |  |  |           |    |   |    |  |  |  |           |   |   |  |  |  |  |      |   |   |  |  |  |  |      |     |                         |  |  |  |  |           |    |   |    |  |  |  |      |     |                         |  |  |  |  |           |   |   |  |  |  |  |      |     |                         |  |  |  |  |              |                   |             |        |         |                            |       |        |                                                                                                                                                                                                                    |                                                                                     |    |                                                                                     |       |        |                                                                                                                                                                                               |                                                                                     |    |                                                                                     |       |        |                                                                                                                                                                       |                                                                                     |     |  |  |      |                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                      |     |  |       |      |  |  |  |  |       |        |                                                                                                                                                         |                                                                                       |     |  |       |        |                                                                                                                                                                                                                                                                                                                           |                                                                                       |     |  |       |        |                                                                                                                                                                                                      |                                                                                       |     |  |               |  |  |          |  |  |               |  |  |  |  |  |       |               |         |              |               |            |      |      |        |         |          |        |      |     |     |  |  |  |          |       |      |    |      |      |  |  |  |  |  |  |                                                                                       |  |  |  |  |  |
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                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1.60              | Firm consistency to stiff cream/light brown/pale brown very sandy gravelly clayey SILT. Sand is fine to coarse. Gravel is subrounded fine to coarse of scattered chalk clasts. Frequent flint. Notable dark grey/black staining on surfaces with hydrocarbon odour. Occasional brown sandy lenses up to 100mm. (Alluvium)<br>1.60 - 2.70 m bgl extent of hydrocarbon staining on surfaces. |   | ALV                                |                                                                                     |                                                                                       |                                                         |                                                   |         |          |        |             |            |             |               |       |           |    |   |  |  |  |  |           |    |   |  |  |  |  |           |    |   |  |  |  |  |           |   |   |    |  |  |  |           |    |   |  |  |  |  |      |     |                         |  |  |  |  |           |    |   |    |  |  |  |           |   |   |  |  |  |  |      |   |   |  |  |  |  |      |     |                         |  |  |  |  |           |    |   |    |  |  |  |      |     |                         |  |  |  |  |           |   |   |  |  |  |  |      |     |                         |  |  |  |  |              |                   |             |        |         |                            |       |        |                                                                                                                                                                                                                    |                                                                                     |    |                                                                                     |       |        |                                                                                                                                                                                               |                                                                                     |    |                                                                                     |       |        |                                                                                                                                                                       |                                                                                     |     |  |  |      |                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                      |     |  |       |      |  |  |  |  |       |        |                                                                                                                                                         |                                                                                       |     |  |       |        |                                                                                                                                                                                                                                                                                                                           |                                                                                       |     |  |       |        |                                                                                                                                                                                                      |                                                                                       |     |  |               |  |  |          |  |  |               |  |  |  |  |  |       |               |         |              |               |            |      |      |        |         |          |        |      |     |     |  |  |  |          |       |      |    |      |      |  |  |  |  |  |  |                                                                                       |  |  |  |  |  |
| 34.93                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| 34.63                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | (0.30)            | Brown very gravelly SAND with medium cobble content. Sand is fine to coarse. Gravel is subrounded fine to coarse of flint. Cobbles of flint. (Alluvium)                                                                                                                                                                                                                                    |  | ALV                                |                                                                                     |                                                                                       |                                                         |                                                   |         |          |        |             |            |             |               |       |           |    |   |  |  |  |  |           |    |   |  |  |  |  |           |    |   |  |  |  |  |           |   |   |    |  |  |  |           |    |   |  |  |  |  |      |     |                         |  |  |  |  |           |    |   |    |  |  |  |           |   |   |  |  |  |  |      |   |   |  |  |  |  |      |     |                         |  |  |  |  |           |    |   |    |  |  |  |      |     |                         |  |  |  |  |           |   |   |  |  |  |  |      |     |                         |  |  |  |  |              |                   |             |        |         |                            |       |        |                                                                                                                                                                                                                    |                                                                                     |    |                                                                                     |       |        |                                                                                                                                                                                               |                                                                                     |    |                                                                                     |       |        |                                                                                                                                                                       |                                                                                     |     |  |  |      |                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                      |     |  |       |      |  |  |  |  |       |        |                                                                                                                                                         |                                                                                       |     |  |       |        |                                                                                                                                                                                                                                                                                                                           |                                                                                       |     |  |       |        |                                                                                                                                                                                                      |                                                                                       |     |  |               |  |  |          |  |  |               |  |  |  |  |  |       |               |         |              |               |            |      |      |        |         |          |        |      |     |     |  |  |  |          |       |      |    |      |      |  |  |  |  |  |  |                                                                                       |  |  |  |  |  |
| 34.33                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | (0.30)            | Firm consistency to stiff cream/light brown/pale brown very sandy gravelly clayey SILT. Sand is fine to coarse. Gravel is subrounded fine to coarse of scattered chalk clasts. Frequent flint. Notable dark grey/black staining on surfaces with hydrocarbon odour. Occasional brown sandy lenses up to 100mm. (Alluvium)                                                                  |  | ALV                                |                                                                                     |                                                                                       |                                                         |                                                   |         |          |        |             |            |             |               |       |           |    |   |  |  |  |  |           |    |   |  |  |  |  |           |    |   |  |  |  |  |           |   |   |    |  |  |  |           |    |   |  |  |  |  |      |     |                         |  |  |  |  |           |    |   |    |  |  |  |           |   |   |  |  |  |  |      |   |   |  |  |  |  |      |     |                         |  |  |  |  |           |    |   |    |  |  |  |      |     |                         |  |  |  |  |           |   |   |  |  |  |  |      |     |                         |  |  |  |  |              |                   |             |        |         |                            |       |        |                                                                                                                                                                                                                    |                                                                                     |    |                                                                                     |       |        |                                                                                                                                                                                               |                                                                                     |    |                                                                                     |       |        |                                                                                                                                                                       |                                                                                     |     |  |  |      |                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                      |     |  |       |      |  |  |  |  |       |        |                                                                                                                                                         |                                                                                       |     |  |       |        |                                                                                                                                                                                                                                                                                                                           |                                                                                       |     |  |       |        |                                                                                                                                                                                                      |                                                                                       |     |  |               |  |  |          |  |  |               |  |  |  |  |  |       |               |         |              |               |            |      |      |        |         |          |        |      |     |     |  |  |  |          |       |      |    |      |      |  |  |  |  |  |  |                                                                                       |  |  |  |  |  |
| 33.43                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | (0.90)            | Recovered as: White gravelly SILT of CHALK. Chalk gravels are weak to very weak. Frequent scattered flint notable at 4.50m and 4.75m. Frequent orange weathering staining on surfaces. (Upper Chalk)                                                                                                                                                                                       |  | UCK                                |                                                                                     |                                                                                       |                                                         |                                                   |         |          |        |             |            |             |               |       |           |    |   |  |  |  |  |           |    |   |  |  |  |  |           |    |   |  |  |  |  |           |   |   |    |  |  |  |           |    |   |  |  |  |  |      |     |                         |  |  |  |  |           |    |   |    |  |  |  |           |   |   |  |  |  |  |      |   |   |  |  |  |  |      |     |                         |  |  |  |  |           |    |   |    |  |  |  |      |     |                         |  |  |  |  |           |   |   |  |  |  |  |      |     |                         |  |  |  |  |              |                   |             |        |         |                            |       |        |                                                                                                                                                                                                                    |                                                                                     |    |                                                                                     |       |        |                                                                                                                                                                                               |                                                                                     |    |                                                                                     |       |        |                                                                                                                                                                       |                                                                                     |     |  |  |      |                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                      |     |  |       |      |  |  |  |  |       |        |                                                                                                                                                         |                                                                                       |     |  |       |        |                                                                                                                                                                                                                                                                                                                           |                                                                                       |     |  |       |        |                                                                                                                                                                                                      |                                                                                       |     |  |               |  |  |          |  |  |               |  |  |  |  |  |       |               |         |              |               |            |      |      |        |         |          |        |      |     |     |  |  |  |          |       |      |    |      |      |  |  |  |  |  |  |                                                                                       |  |  |  |  |  |
| Hole Diameter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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                                    | Water Strikes                                                                         |                                                         |                                                   |         |          |        |             |            |             |               |       |           |    |   |  |  |  |  |           |    |   |  |  |  |  |           |    |   |  |  |  |  |           |   |   |    |  |  |  |           |    |   |  |  |  |  |      |     |                         |  |  |  |  |           |    |   |    |  |  |  |           |   |   |  |  |  |  |      |   |   |  |  |  |  |      |     |                         |  |  |  |  |           |    |   |    |  |  |  |      |     |                         |  |  |  |  |           |   |   |  |  |  |  |      |     |                         |  |  |  |  |              |                   |             |        |         |                            |       |        |                          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| Depth                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Diameter (mm)     | Remarks                                                                                                                                                                                                                                                                                                                                                                                    | Core Top (m)                                                                          | Core Base (m)                      | % Recovery                                                                          | Date                                                                                  | Time                                                    | Strike                                            | Minutes | Standing | Casing |             |            |             |               |       |           |    |   |  |  |  |  |           |    |   |  |  |  |  |           |    |   |  |  |  |  |           |   |   |    |  |  |  |           |    |   |  |  |  |  |      |     |                         |  |  |  |  |           |    |   |    |  |  |  |           |   |   |  |  |  |  |      |   |   |  |  |  |  |      |     |                         |  |  |  |  |           |    |   |    |  |  |  |      |     |                         |  |  |  |  |           |   |   |  |  |  |  |      |     |                         |  |  |  |  |              |                   |             |        |         |                            |       |        |                          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| 5.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 128               | 128                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                       |                                    |                                                                                     | 08-04-19                                                                              | 12.00                                                   | 4.85                                              | 20      | 4.70     | 5.00   |             |            |             |               |       |           |    |   |  |  |  |  |           |    |   |  |  |  |  |           |    |   |  |  |  |  |           |   |   |    |  |  |  |           |    |   |  |  |  |  |      |     |                         |  |  |  |  |           |    |   |    |  |  |  |           |   |   |  |  |  |  |      |   |   |  |  |  |  |      |     |                         |  |  |  |  |           |    |   |    |  |  |  |      |     |                         |  |  |  |  |           |   |   |  |  |  |  |      |     |                         |  |  |  |  |              |                   |             |        |         |                            |       |        |                          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                                    | General Remarks<br>Hole terminated at 5.0m.<br>Hole installed as gas monitoring well. |                                                         |                                                   |         |          |        |             |            |             |               |       |           |    |   |  |  |  |  |           |    |   |  |  |  |  |           |    |   |  |  |  |  |           |   |   |    |  |  |  |           |    |   |  |  |  |  |      |     |                         |  |  |  |  |           |    |   |    |  |  |  |           |   |   |  |  |  |  |      |   |   |  |  |  |  |      |     |                         |  |  |  |  |           |    |   |    |  |  |  |      |     |                         |  |  |  |  |           |   |   |  |  |  |  |      |     |                         |  |  |  |  |              |                   |             |        |         |                            |       |        |                          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17 WSP WINDOW SAMPLE LOG 70044279 - GEORGE STREET, READING.GPJ WSPTEMPLATE7.00.GDT 22/5/19

|                                                                                                              |                                   |                 |                                                    |                                |
|--------------------------------------------------------------------------------------------------------------|-----------------------------------|-----------------|----------------------------------------------------|--------------------------------|
| <br><b>WSP</b><br>Telephone: | <b>WINDOW SAMPLE LOG</b>          |                 | Hole No.<br><b>WS002</b>                           |                                |
|                                                                                                              | Project<br>George Street, Reading |                 | Sheet<br>1 of 1                                    |                                |
| Job No<br><b>70044279</b>                                                                                    | Client<br>Reading Borough Council |                 | Date<br>09-04-19<br>08-04-19                       |                                |
| Contractor / Driller<br>Geotechnical Engineering                                                             | Method/Plant Used<br>Terrier Rig  | Logged By<br>DC | Co-Ordinates (NGR)<br>E 470541.615<br>N 173743.108 | Ground Level (m AOD)<br>38.360 |

| SAMPLES & TESTS |        |                           |            |             |               |       | STRATA       |                   |                                                                                                                                                                                                                                  |        |         | Install / Backfill |
|-----------------|--------|---------------------------|------------|-------------|---------------|-------|--------------|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|---------|--------------------|
| Depth           | Type   | Test Result               | PID (ppmV) | HSV (kN/m2) | P Pen (kN/m2) | Water | Elev. (mAOD) | Depth (Thickness) | Description                                                                                                                                                                                                                      | Legend | Geology | Dia. mm            |
| 0.10-0.10       | ES     | .                         |            |             |               |       |              |                   | Made Ground: comprising of dark brown gravelly silty fine to medium Sand. Gravel is angular to subangular fine to coarse of brick, concrete fragments and flint.                                                                 |        | MG      |                    |
| 0.50-0.50       | ES     | .                         |            |             |               |       | 37.56        | 0.80              |                                                                                                                                                                                                                                  |        |         |                    |
| 1.10-1.10       | ES     | .                         |            |             |               |       |              | (0.80)            | Made Ground: comprising of soft consistency dark orange brown and brown sandy slightly gravelly Silt. Sand is fine to medium. Gravel is angular to subrounded fine to medium of flint and brick fragments.                       |        | MG      |                    |
| 1.50-1.60       | D      | .                         |            |             |               |       | 36.76        | 1.60              |                                                                                                                                                                                                                                  |        |         |                    |
| 2.00            | ES (S) | 1,1,1<br>1,2,2<br>N=6.    | 124        |             |               |       | 36.56        | 1.80              | Buff/light brown/slightly pale yellow brown/cream very sandy gravelly SILT or gravelly very silty SAND. Sand is fine to coarse. Gravel is fine to medium of scattered chalk clasts and frequent fine to medium flint. (Alluvium) |        | ALV     |                    |
| 2.50-3.00       | B      | .                         |            |             |               |       |              | (1.20)            | Light brown/orange brown/cream/buff gravelly very silty slightly clayey fine to coarse SAND. (Alluvium)                                                                                                                          |        | ALV     |                    |
| 3.00            | ES (S) | 1,3,5<br>4,5,3<br>N=17.   | 17         |             |               |       | 35.36        | 3.00              | 2.00 - 2.20 m bgl . Dark grey/black staining on silt with hydrocarbon odour.                                                                                                                                                     |        | ALV     |                    |
| 3.50-4.00       | B      | .                         |            |             |               |       |              | (1.00)            | Brown silty very gravelly SAND with high cobble content. Sand is fine to coarse. Gravel is rounded to subangular fine to coarse of flint. Cobbles of flint. Occasional scattered chalk. (Alluvium/River Terrace Deposits).       |        | ALV     |                    |
| 4.00            | (S)    | 3,3,6<br>6,12,13<br>N=37. |            |             |               |       | 34.36        | 4.00              |                                                                                                                                                                                                                                  |        | ALV     |                    |
| 5.00            | (S)    | 4,4,1<br>1,1,1<br>N=4.    |            |             |               |       | 33.36        | 5.00              | Very little recovery                                                                                                                                                                                                             |        | ALV     |                    |

| Hole Diameter |               |                                                                                                                                                       | Recovery     |               |            | Water Strikes                               |       |        |         |          |        |
|---------------|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|---------------|------------|---------------------------------------------|-------|--------|---------|----------|--------|
| Depth         | Diameter (mm) | Remarks                                                                                                                                               | Core Top (m) | Core Base (m) | % Recovery | Date                                        | Time  | Strike | Minutes | Standing | Casing |
| 5.00          | 128           | 128                                                                                                                                                   |              |               |            | 08-04-19                                    | 10.00 | 3.60   | 20      | 1.88     | 4.00   |
|               |               |                                                                                                                                                       |              |               |            | General Remarks<br>Hole terminated at 5.0m. |       |        |         |          |        |
| Scale 1:37.5  |               | Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification. |              |               |            |                                             |       |        |         |          |        |

17 WSP WINDOW SAMPLE LOG 70044279 - GEORGE STREET, READING.GPJ WSPTEMPLATE7.00.GDT 22/5/19

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|-------------------------------------------------------------------------------------------------------|-----------------------------------|-----------------------------------|----------------------------------------------------|--------------------------------|
| <br>WSP<br>Telephone: | <b>WINDOW SAMPLE LOG</b>          |                                   | Hole No.<br><b>WS003</b>                           |                                |
|                                                                                                       | Project<br>George Street, Reading |                                   | Sheet<br>1 of 1                                    |                                |
| Job No<br><b>70044279</b>                                                                             |                                   | Client<br>Reading Borough Council |                                                    | Date<br>09-04-19<br>08-04-19   |
| Contractor / Driller<br>Geotechnical Engineering                                                      | Method/Plant Used<br>Terrier Rig  | Logged By<br>DC                   | Co-Ordinates (NGR)<br>E 470548.815<br>N 173741.322 | Ground Level (m AOD)<br>38.517 |

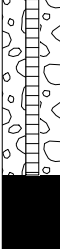
| SAMPLES & TESTS |       |                         |            |             |               |       | STRATA       |                   |                                                                                                                                                                                                            |                                                                                       |         | Install / Backfill |
|-----------------|-------|-------------------------|------------|-------------|---------------|-------|--------------|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------|--------------------|
| Depth           | Type  | Test Result             | PID (ppmV) | HSV (kN/m2) | P Pen (kN/m2) | Water | Elev. (mAOD) | Depth (Thickness) | Description                                                                                                                                                                                                | Legend                                                                                | Geology | Dia. mm            |
| 0.15-0.15       | ES    | .                       |            |             |               |       |              | (0.90)            | Made Ground: comprising of dark brown gravelly silty fine to medium Sand. Gravel is angular to subangular fine to coarse of brick, concrete fragments and flint.                                           |    | MG      |                    |
| 0.70-0.70       | ES    | .                       |            |             |               |       | 37.62        | 0.90              |                                                                                                                                                                                                            |                                                                                       |         |                    |
| 1.00-1.00       | ES    | .                       |            |             |               |       |              | (0.65)            | Made Ground: comprising of soft consistency dark orange brown and brown sandy slightly gravelly Silt. Sand is fine to medium. Gravel is angular to subrounded fine to medium of flint and brick fragments. |    | MG      |                    |
|                 |       |                         |            |             |               |       | 36.97        | 1.55              |                                                                                                                                                                                                            |                                                                                       |         |                    |
| 1.70            | ES    | .                       | 10         |             |               |       |              | (0.55)            | Slightly reddish brown/brown/orange brown fine to coarse SAND with frequent flint gravel. (Alluvium)                                                                                                       |    | ALV     |                    |
| 2.00            | D (S) | 1,1,1<br>1,1,2<br>N=5.  |            |             |               |       | 36.42        | 2.10              |                                                                                                                                                                                                            |                                                                                       |         |                    |
|                 |       |                         |            |             |               |       |              | (0.55)            | Light brown/cream/buff/sightly pale yellow brown very silty gravelly SAND. Sand is fine to medium. Gravel is fine to medium of scattered chalk and fine to coarse frequent flint. (Alluvium)               |   | ALV     |                    |
|                 |       |                         |            |             |               |       | 35.87        | 2.65              |                                                                                                                                                                                                            |                                                                                       |         |                    |
| 2.80-3.00       | D     | .                       |            |             |               |       |              | (0.35)            | Light brown/cream/buff/slightly pale yellow brown gravelly very sandy SILT. Sand is fine to medium. Gravel is fine to medium of scattered chalk and fine to coarse frequent flint. (Alluvium)              |  | ALV     |                    |
| 3.00            | (S)   | 2,3,2<br>3,3,3<br>N=11. | 6          |             |               |       | 35.52        | 3.00              | No recovery/ Large flint in liner                                                                                                                                                                          |  | ALV     |                    |
|                 |       |                         |            |             |               |       |              | (0.60)            |                                                                                                                                                                                                            |                                                                                       |         |                    |
|                 |       |                         |            |             |               |       | 34.92        | 3.60              |                                                                                                                                                                                                            |                                                                                       |         |                    |
| 3.80-4.00       | D     | .                       | 7          |             |               |       |              | (0.40)            | Light brown with frequent cream/pale yellow brown very gravelly silty SAND. Sand is fine to coarse. Gravel is fine to medium frequent coarse of flint and scattered chalk. (Alluvium)                      |  | ALV     |                    |
| 4.00            | (S)   | 4,6,5<br>5,5,5<br>N=20. |            |             |               |       |              |                   | No recovery                                                                                                                                                                                                |  | ALV     |                    |
|                 |       |                         |            |             |               |       |              | (0.70)            |                                                                                                                                                                                                            |                                                                                       |         |                    |
|                 |       |                         |            |             |               |       | 33.82        | 4.70              |                                                                                                                                                                                                            |                                                                                       |         |                    |
| 5.00            | (S)   | 1,1,1<br>1,1,1<br>N=4.  |            |             |               |       |              | (0.30)            | Recovered as light brown very gravelly SAND or SAND and GRAVEL (Taplow Gravel)                                                                                                                             |  | TG      |                    |
|                 |       |                         |            |             |               |       | 33.52        | 5.00              |                                                                                                                                                                                                            |                                                                                       |         |                    |

| Hole Diameter |               |                                                                                                                                                       | Recovery     |               |            | Water Strikes                               |       |        |         |          |        |
|---------------|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|---------------|------------|---------------------------------------------|-------|--------|---------|----------|--------|
| Depth         | Diameter (mm) | Remarks                                                                                                                                               | Core Top (m) | Core Base (m) | % Recovery | Date                                        | Time  | Strike | Minutes | Standing | Casing |
| 5.00          | 128           | 128                                                                                                                                                   |              |               |            | 08-04-19                                    | 15.30 | 3.10   | 20      | 3.10     | 3.00   |
|               |               |                                                                                                                                                       |              |               |            | General Remarks<br>Hole terminated at 5.0m. |       |        |         |          |        |
| Scale 1:37.5  |               | Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification. |              |               |            |                                             |       |        |         |          |        |

17 WSP WINDOW SAMPLE LOG 70044279 - GEORGE STREET, READING.GPJ WSPTEMPLATE7.00.GDT 22/5/19

17 WSP WINDOW SAMPLE LOG - GEORGE STREET, READING.GPJ WSPTEMPLATE7.00.GDT 22/5/19

|                                                                                                                    |  |                                               |  |                             |  |                                                                 |  |                                            |  |
|--------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------|--|-----------------------------|--|-----------------------------------------------------------------|--|--------------------------------------------|--|
| <div><br/>WSP<br/>Telephone:</div> |  | <div>WINDOW SAMPLE LOG</div>                  |  |                             |  | <div>Hole No.<br/>WS005</div>                                   |  |                                            |  |
|                                                                                                                    |  | <div>Project<br/>George Street, Reading</div> |  |                             |  | <div>Sheet<br/>1 of 1</div>                                     |  |                                            |  |
| <div>Job No<br/>70044279</div>                                                                                     |  | <div>Client<br/>Reading Borough Council</div> |  |                             |  | <div>Date<br/>08-04-19<br/>08-04-19</div>                       |  |                                            |  |
| <div>Contractor / Driller<br/>Geotechnical Engineering</div>                                                       |  | <div>Method/Plant Used<br/>Terrier Rig</div>  |  | <div>Logged By<br/>DC</div> |  | <div>Co-Ordinates (NGR)<br/>E 470558.801<br/>N 173755.276</div> |  | <div>Ground Level (m AOD)<br/>38.352</div> |  |

| SAMPLES & TESTS |      |                          |            |             |               |                                                                                     | STRATA       |                   |                                                                                                                                                                                                                                                                                                     |                                                                                       |         | Install / Backfill                                                                   |
|-----------------|------|--------------------------|------------|-------------|---------------|-------------------------------------------------------------------------------------|--------------|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------|--------------------------------------------------------------------------------------|
| Depth           | Type | Test Result              | PID (ppmV) | HSV (kN/m2) | P Pen (kN/m2) | Water                                                                               | Elev. (mAOD) | Depth (Thickness) | Description                                                                                                                                                                                                                                                                                         | Legend                                                                                | Geology | Dia. mm                                                                              |
| 0.10-0.10       | ES   | .                        |            |             |               |                                                                                     |              | (0.90)            | Made Ground: comprising of dark brown gravelly silty fine to medium Sand. Gravel is angular to subangular fine to coarse of brick, concrete fragments and flint.                                                                                                                                    |    | MG      |   |
| 0.70-0.70       | ES   | .                        |            |             |               |                                                                                     | 37.45        | 0.90              | Made Ground: comprising of soft consistency dark orange brown and brown sandy slightly gravelly Silt. Sand is fine to medium. Gravel is angular to subrounded fine to medium of flint and brick fragments.                                                                                          |    | MG      |   |
| 1.20-1.20       | ES   | .                        |            |             |               |                                                                                     |              | (0.80)            |                                                                                                                                                                                                                                                                                                     |                                                                                       |         |                                                                                      |
| 1.60            |      | .                        | 14         |             |               |                                                                                     | 36.65        | 1.70              |                                                                                                                                                                                                                                                                                                     |                                                                                       |         |                                                                                      |
| 1.80            | ES   | .                        | 23         |             |               |                                                                                     |              | (0.40)            | Brown/dark brown/dark greenish brown with dark grey mottling sandy CLAY/SILT. Abundant dark grey staining with hydrocarbon odour. (Alluvium)                                                                                                                                                        |    | ALV     |   |
| 2.00            | (S)  | 1,3,1<br>4,5,7<br>N=17.  |            |             |               |                                                                                     | 36.25        | 2.10              | Brown/pale brown/light brown/dark brown silty slight gravelly SAND. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse of flint. Abundant dark grey staining on sand with hydrocarbon odour. Ocasional scattering of chalk and occasional silt bands/laminations. (Alluvium) |   | ALV     |  |
| 2.50            | ES   | .                        | 53         |             |               |                                                                                     |              | (1.30)            |                                                                                                                                                                                                                                                                                                     |                                                                                       |         |                                                                                      |
| 3.00            | (C)  | 4,6,7<br>8,8,11<br>N=34. |            |             |               |  | 34.95        | 3.40              |                                                                                                                                                                                                                                                                                                     |                                                                                       |         |                                                                                      |
| 3.50-3.60       | ES   | .                        | 44         |             |               |                                                                                     |              |                   | Brown/dark brown SAND and GRAVEL. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse of flint. Slight hydrocarbon odour and darkening of deposit. (Taplow Gravel)                                                                                                            |  |         |                                                                                      |
| 4.00            | (C)  | 1,1,2<br>4,3,4<br>N=13.  |            |             |               |                                                                                     |              | (1.60)            | 4.00 - 5.00 m bgl . Light brown colour. Less discolouristaion.                                                                                                                                                                                                                                      |                                                                                       | TG      |                                                                                      |
| 4.50-5.00       | B    | .                        | 72         |             |               |                                                                                     |              |                   |                                                                                                                                                                                                                                                                                                     |                                                                                       |         |                                                                                      |
| 5.00            | (C)  | 1,3,3<br>5,4,4<br>N=16.  |            |             |               |                                                                                     | 33.35        | 5.00              |                                                                                                                                                                                                                                                                                                     |                                                                                       |         |                                                                                      |

| Hole Diameter |               |                                                                                                                                                       | Recovery     |               |            | Water Strikes                               |       |        |         |          |        |
|---------------|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|---------------|------------|---------------------------------------------|-------|--------|---------|----------|--------|
| Depth         | Diameter (mm) | Remarks                                                                                                                                               | Core Top (m) | Core Base (m) | % Recovery | Date                                        | Time  | Strike | Minutes | Standing | Casing |
| 5.00          | 128           | 128                                                                                                                                                   |              |               |            | 08-04-19                                    | 16.00 | 3.10   | 20      | 3.10     | 3.00   |
|               |               |                                                                                                                                                       |              |               |            | General Remarks<br>Hole terminated at 5.0m. |       |        |         |          |        |
| Scale 1:37.5  |               | Notes: All dimensions in metres. Logs should be read in accordance with the provided Key. Descriptions are based on visual and manual identification. |              |               |            |                                             |       |        |         |          |        |