# BRE365 PERCOLATION TEST REPORT

# FOR LAND SOUTH OF

# HAMMERWOOD ROAD, ASHURST

# WOOD, WEST SUSSEX, RH19 3RX

## DOCUMENT NUMBER: C3655-R2-REV-A

## Prepared by:

Nimbus
ENGINEERING CONSULTANTS

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# 1. INTRODUCTION

Nimbus Engineering Consultants Limited have been instructed to carry out a BRE365 Infiltration test for Land South of Hammerwood Road, Ashurst Wood, West Sussex, RH19 3RX.

The BRE365 Infiltration test was carried out on the 1st of October, 2025 in one trial pit.

The test was carried out to the BRE365 Digest, in order to calculate the infiltration rate for the proposed site, to treat and deal with the surface water runoff. The trial pit location can be found in Appendix A.

# 2. TRIAL PIT 1

A test pit of dimensions 300mm by 1000mm by 1000mm deep was excavated in a suitable location. The test pit location can be found in Appendix A.

The excavated ground was described as:

- Approximately 200mm of woodland soil
- Approximately 300mm of fine sand
- Approximately 300mm of fine sand (50%) and aggregate (50%)
- Approximately 200mm of fine sand (20%) and aggregate (80%)

## 2.1 TEST ONE

Water was added to the pit at a consistent rate and the following was measured:

- Water drained from the 100% full level to the 75% level in approximately 67 minutes
- Water did not drain to the 25% level after 300 minutes.

Therefore the 25% full minus 75% full time was unable to be calculated, which is the time required in order to calculate the BRE365 Infiltration rate.

## 2.2. TEST TWO

N/A as the test was cancelled.

## 2.3 TEST THREE

N/A as the test was cancelled.

## 2.4 INFILTRATION RESULTS

An infiltration rate was unable to be calculated, demonstrating the unfeasibility of infiltration at this site.

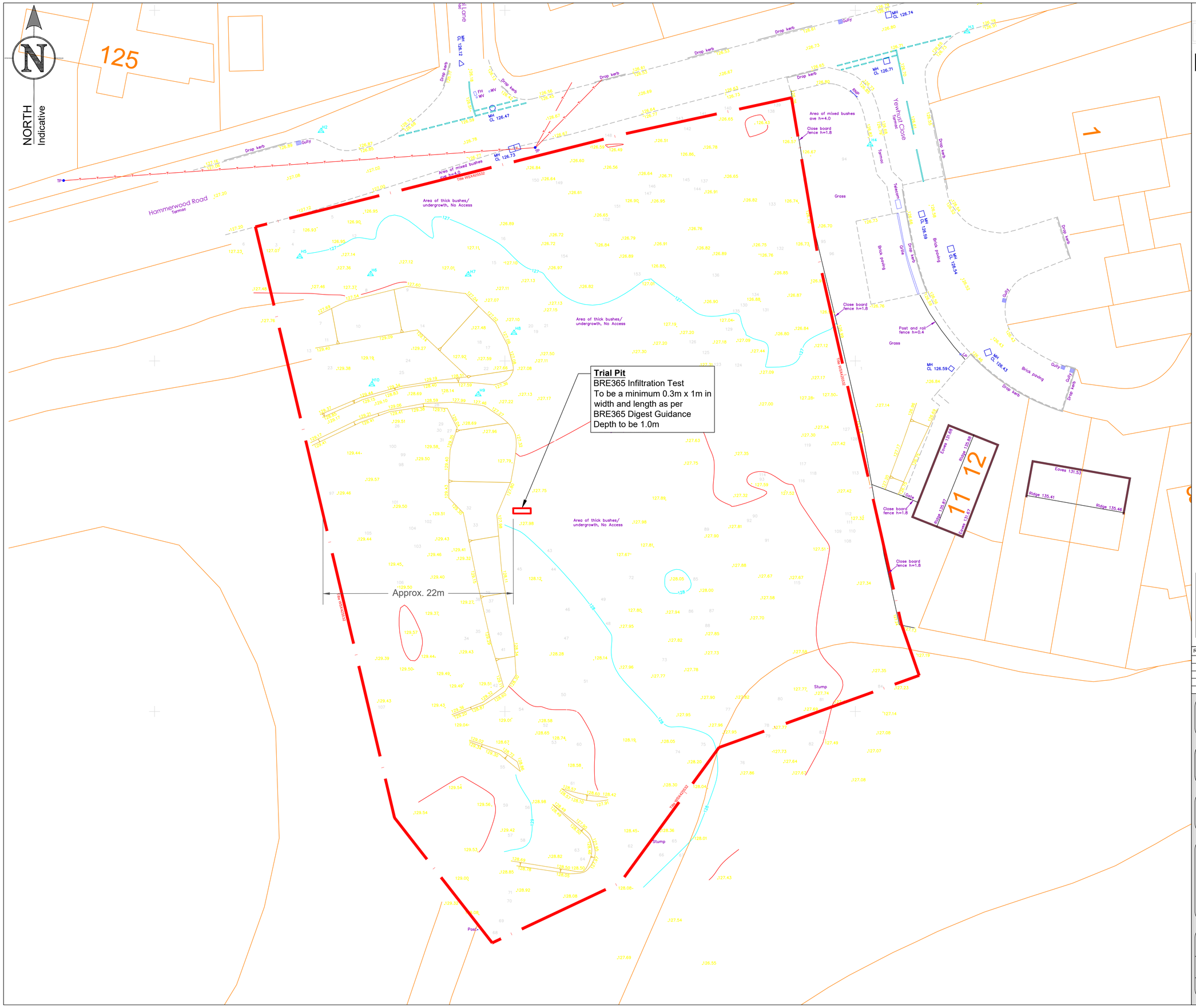
*Figure 1 – Trial Pit 1*

# 3 CONCLUSION

One test pit was excavated at the site, in order to carry out a BRE365 Infiltration test around the site.

The test sheets can be found in Appendix B. The results show that the BRE365 Test failed, demonstrating the unfeasibility of infiltration on site.

# APPENDIX A – TRIAL PIT LOCATION PLAN




DRAWING TO BE PRINTED IN COLOUR.

# KEY:

Proposed Trial Pit Location

Proposed Site Boundary

NOT FOR CONSTRUCTION



| REV | DATE | DRAWN | DESCRIPTION | CHECK | APPR. |
|---|---|---|---|---|---|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| A | 30-09-25 | A.L | For Information. | S.L | S.L |

Land south of Hammerwood Road, Ashurst Wood, West Sussex, RH19 3RX

Trial Pit Location Plan

Virtue Land LTD

Nimbus ENGINEERING CONSULTANTS

| | | | |
|---|---|---|---|
| S.L | 30-09-25 | S.L | 30-09-25 |
| A.L | 1:200 | C3655-04 | A |
| 30-09-25 | A1 | | |

# APPENDIX B – BRE365 PERCOLATION TEST RESULTS

# PERCOLATION TEST

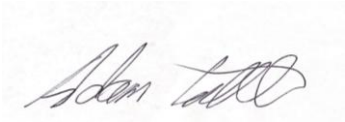
| |
|---|
| Address: - Land south of Hammerwood Road, Ashurst Wood, West Sussex, RH19 3RX |
| Client name and contact number: Virtue Land LTD |
| Date and Time agreed to carry out test: 01/10/25 |
| Completed by: Adam Luckett |

**Following questions to be completed:**

| | |
|---|---|
| | 08.30 |
| Weather Conditions | Dry all day |
| Ground Removed | 0.0 – 0.2 Woodland Soil<br>0.2 – 0.5 Fine Sand<br>0.5 – 0.8 50% Fine Sand 50% Aggregate<br>0.8 – 1 80% Aggregate 20% Fine Sand |
| | |

**Photographs of the following must be included:**

- The area prior to the pit being dug
- The test pit when empty
- The test pit when full
- During the test
- The area once the test has finished
- The area when the pit has been filled back in

**Signed: ____**  **_____**

**Name: ___Adam Luckett_____**

Thank you - Nimbus Engineering Consultants Ltd.

**CHECK SHEET**

1. Please specify the size of the soakaway that you are proposing to use:

   **Width (m)** **Length (m)** **Depth (m)**

2. Please specify the area that is to be drained to the soakaway

3. Please specify the size of the trial pit:

   **Width 0.3m Length 1m Depth 1m**

4. Please specify the proposed invert level of the drain:

5. Below is a table for you to input the data (times) gathered from the Soil Infiltration Rate tests:

**Test was canceled after 300 minutes as waterline only dropped 50mm in 240 minutes**

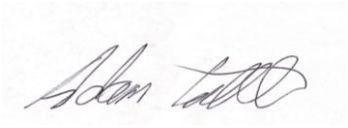
| Test Number | 75% | 25% | 25% - 75% |
|---|---|---|---|
| **1** | 67 | NA | NA |
| **2** | NA | NA | NA |
| **3** | NA | NA | NA |

*To be filled in when info arrives.

Key:

75%: The time taken in minutes for the water level to fall to 75% full.
25%: The time taken in minutes for the water level to fall to 25% full.
25% - 75%: The 25% time the 75% time. (This will give the time for the water level to fall from 75% full to 25% full).

Name: Adam Luckett

Signature 

Date: 01.10.25

# APPENDIX C – TRIAL PIT LOGS

# BRE 365 Trial Pit 01 TP01

**PROJECT NUMBER** C3655
**PROJECT NAME** Lnd. South of Hammerwood Rd
**CLIENT** Virtue Land Ltd

**TEST DATE** 01/10/2025
**BRE365 COMPANY** Nimbus Engineering
**SITE OPERATIVE** Adam Luckett
**METHOD OF EXCAVATION** Manual Excavation
**TOTAL DEPTH** 1.0m

**LOGGED BY** Mark Hamilton
**CHECKED BY** Sadia Luckett

**COMMENTS**

| Depth (m) | Graphic Log | Material Description | Additional Observations |
|---|---|---|---|
| | | WOODLAND SOIL | |
| | | FINE SAND | |
| 0.5 | | FINE SAND (50%) & AGGREGATE (50%) | |
| | | FINE SAND (20%) & AGGREGATE (80%) | |
| 1 | | | |
| 1.5 | | | |