



TOPPING ENGINEERS

CONSULTING CIVIL &
STRUCTURAL ENGINEERS

PERCOLATION TESTING REPORT

LOCATION:

Abbey Lane, Lundwood

CLIENT:

Zaheer Hussain

DOCUMENT REF:
19294-PTR-001

REVISION/DATE:
Revision A

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Revision	Description	Date	Author	Checked
A	First Issue	Nov 2021	S Fenwick	T Moorhouse

1.0 TESTING REPORT

The Percolation Testing was carried out on site on 16th November 2021 to establish if infiltration methods were going to be a suitable solution for draining the site.

1 Trial Hole was formed with the following dimensions;

Test Pit 1 1500mm x 600mm x 1600mm deep

The water level drop was monitored and recorded (see test sheets attached).

For Test 1 (Test Pit 1), water was filled to a depth of 270mm, the water level dropped 0mm after 1 hour of testing.

During the testing period, the water level dropped 0mm within one hour of testing.

Calculation sheet 1 shows that the infiltration rates are not high enough and do not satisfy BRE 365 requirements. Therefore, Infiltration methods of drainage will not be viable for this site and strategy.

2.0 APPENDICES

**Appendix A – Percolation Test Sheet
METHOD (from BRE Digest 365)**

- Excavate a soakage trail pit to the required depth (typically 1.0m - 2.0m deep) using minimum width (0.3m) and length (1.0m). Carefully trim sides and bottom.
- Carefully measure size of pit and note sizes below.
- Fill soakage hole briskly with water (from bowser) to at least three quarters full. Being careful not to wash away the sides. (Note: a 0.3m wide, 1m long, 1.5m deep trench needs at least 350 litres (80 gallons) of water)
- Place straight edge over top of soakage pit and measure (dip) to the top of the water.
- Record time versus dips in table below. Dip every 5 minutes for the first hour and every hour until pit is one quarter full. Repeat test 3 times in total on the same or consecutive days.

DETAILS

Site Location	Abbey Lane, Lundwood
Date of Test	16/11/2021
Weather Conditions	Dry – Autumn
Engineer Name	Steven Fenwick

SIZE OF PIT 1

Length	Width	Depth
1.50m	0.6m	1.60m

**Test 1
RESULTS**

Time (mins)	Dip (mm)
0	270
5	270
10	270
15	270
20	270
25	270
30	270
35	270
40	270
45	270
50	270
55	270
60	270

Appendix B

Photographic Evidence



Appendix C
Percolation Test Pit Location

Test Pit

