

Surface Water Soakaways

Infiltration testing was carried out within the trial pit SA1, SA2 and SA3 to the BRE365 methodology to provide an estimate infiltration factor for the subject site. The trial pits were formed at depth comprised between 0.80m and 2.50m and filled with c. 0.41m and 0.70m of water at its base to limit the amount water used, reduce the likelihood of trial pit instability and target the deeper soil horizons.

The testing was terminated part way through the first cycle within all trial pits due very slow infiltration rate and water level movement over a period comprised between 3 and 4 hours.

The results are presented in Appendix D and are summarised in the table below.

Infiltration Factors

| Trial Pit | Soil Tested | Test Depth | Infiltration Factor (ms^{-1}) | | |
|-----------|-------------|--------------|--|---------|---------|
| | | | Cycle 1 | Cycle 2 | Cycle 3 |
| SA1 | HD | 0.39 – 0.80m | Test failed $<10^{-7}$ | - | - |
| SA2 | HD | 1.44 – 2.00m | Test failed $<10^{-7}$ | - | - |
| SA3 | HD | 1.80-2.50m | Test failed $<10^{-7}$ | - | - |

Note

HD HEAD DEPOSIT