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Infiltration test at Land adjacent to 11 Cross Lane Royston.

1. Introduction.

In accordance with the planning approval 2014/0018 condition 3 a porosity test was carried out at Cross Lane on 13/06/2017.

2. Scope of investigation.

A single hand excavated trial pit was sunk to a depth of 1.4m shown in the position of the soak away on the site plan. The excavation remained stable on completion. No standing water was encountered.

In the excavation. Topsoil was encountered to a depth of 0.4m, slightly silty natural sand clay to 1m and the excavation was terminated at this depth.

2.1 Infiltration testing.

Infiltration testing was carried out at this point. The test was carried out according to the method described in BRE digest 365 (though carried out in a smaller excavation to prevent excessive water consumption and destabilization of the site surface). The water infiltration testing was carried out by filling the hole to up to 0.4m below ground level, to test the permeability of the silty natural sand clay. The rate of drop was measured against time in metres per hour are presented below.

Trial pit infiltration rate (m/hour) 0.0314 m/hour

Infiltration test result.

Pit dimensions:

L 300

W 280

D 1400mm (filled to 0.4m below ground level)

Time to reach 75% filled 320s

Time to reach 25% filled 7000s