



# UKAEA CULHAM CAMPUS

Soakaway testing to determine  
suitability of the soil for a soakaway  
design to ensure proper drainage

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# Site investigation and infiltration testing to inform design of soakaway system



## Objective

The purpose of the soakaway testing was to verify the suitability of infiltration for the surface water design at a brownfield development for the United Kingdom Atomic Energy Authority (UKAEA).

Soakaways are used to store the immediate surface water run-off from hard surfaced areas, and allow for efficient infiltration into the adjacent soil.



## Scope of Works

Infiltration testing of 8no soakaways on site in accordance with Building Research Establishment (BRE) Digest 365: Soakaway Design (2016)

The test pits were excavated to an area of 2 m x 1 m with a maximum depth of 1.5 m to represent the proposed design solution.

The soakaway testing consisted of groundwater level and recharge monitoring using data-loggers over a 3 cycles of filling/emptying.



## Solution

The time for the water level to fall from 75% to 25% effective depth was recorded. The soil infiltration rate was calculated and the test results were reported to the client.

Services	Soakaway Testing
Location	Abingdon, Oxfordshire
Industry	Construction