

Westbury Court Care Home, Westbury

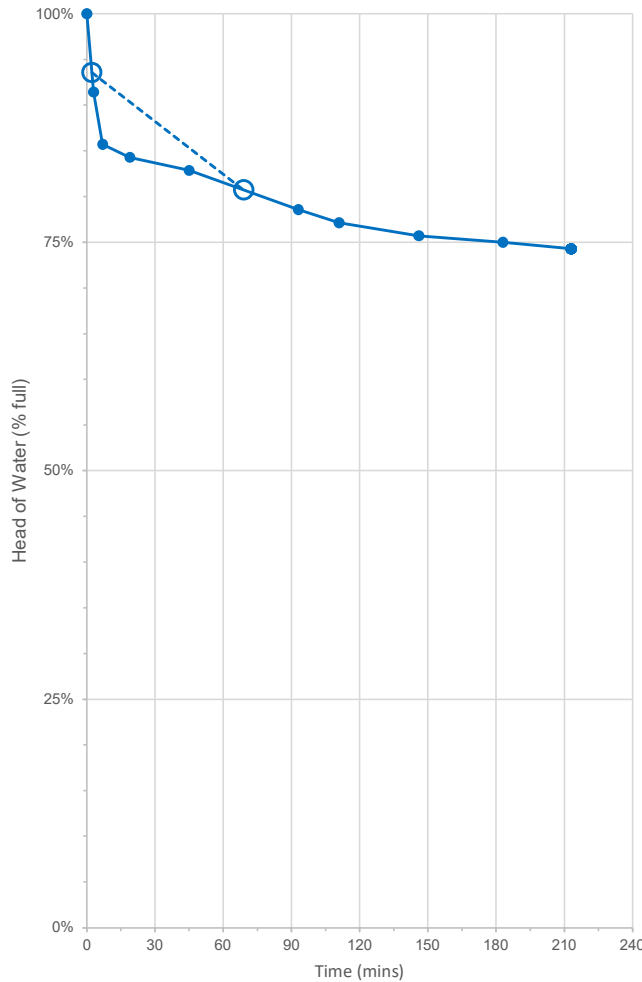
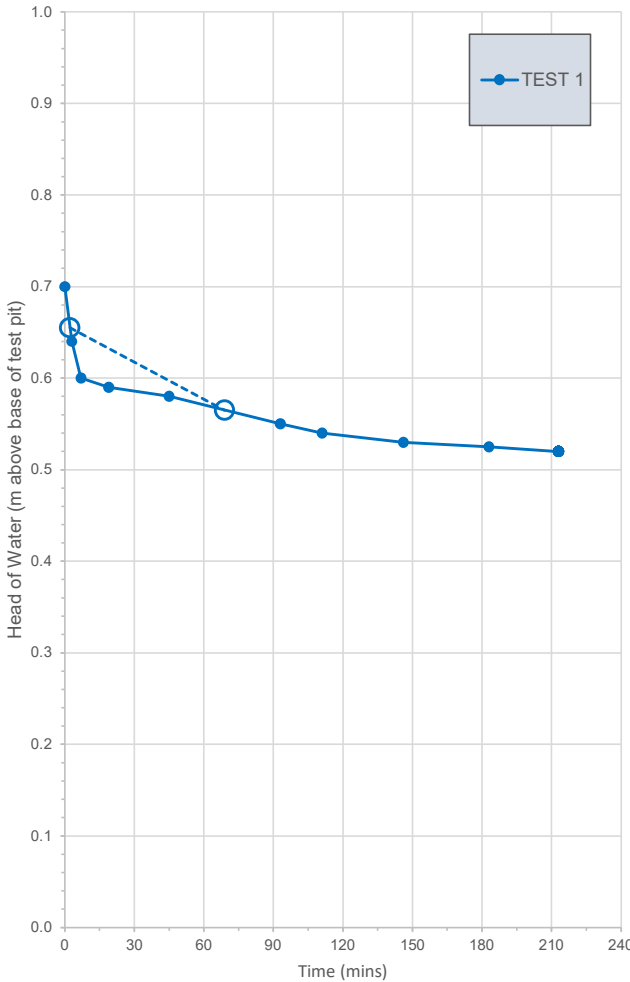
Test Location: TP1

Test pit dimensions

Diameter	Depth
0.080 m	2.000 m

Comments: Infiltration test was expected to be performed in a trial pit, however, initial augering indicated that the thickness of Made Ground soils exceeded the maximum depth which could be excavated by hand, therefore the pit was extended by means of dynamic sampling to 2.00 m depth. The hole was 80 mm diameter with its base within silty clay of the Gault Formation; although the test horizon spanned the overlying Made Ground and disturbed Gault strata too. A single fill was attempted within the time available with clean water supplied via a pre-filled container. The soil infiltration rates are estimated using the method described in BRE Digest 365 (2007), modified to account for the cylindrical geometry of the exploratory hole.

Observation No.	Test 1		Test 2		Test 3	
	Time (min)	Head (m)	Time (min)	Head (m)	Time (min)	Head (m)
1	0.00	0.700	-	-	-	-
2	3.00	0.640	-	-	-	-
3	7.00	0.600	-	-	-	-
4	19.00	0.590	-	-	-	-
5	45.00	0.580	-	-	-	-
6	93.00	0.550	-	-	-	-
7	111.00	0.540	-	-	-	-
8	146.00	0.530	-	-	-	-
9	183.00	0.525	-	-	-	-
10	213.00	0.520	-	-	-	-
11	-	-	-	-	-	-
12	-	-	-	-	-	-
13	-	-	-	-	-	-
14	-	-	-	-	-	-
15	-	-	-	-	-	-
16	-	-	-	-	-	-
17	-	-	-	-	-	-
18	-	-	-	-	-	-
19	-	-	-	-	-	-
20	-	-	-	-	-	-
21	-	-	-	-	-	-
22	-	-	-	-	-	-
23	-	-	-	-	-	-
24	-	-	-	-	-	-
25	-	-	-	-	-	-
$V_{p75-25} (m^3)$	0.000	-	-	-	-	-
$a_{p50} (m^2)$	0.158	-	-	-	-	-
$t_{p75-25} (sec)$	4,005	-	-	-	-	-
$f (m/sec)$	0.000000713	-	-	-	-	-
	7.13E-07	-	-	-	-	-



Soil infiltration rate, $f = \frac{V_{p75-25}}{a_{p50} \times t_{p75-25}}$