

TEST 1	TEST 2	TEST 3
BRE 365 Method	BRE 365 Method	BRE 365 Method
Width of Trial Pit 0.6 m	Width of Trial Pit 0.6 m	Width of Trial Pit 0.6 m
Length of Trial Pit 2.1 m	Length of Trial Pit 2.1 m	Length of Trial Pit 2.1 m
or	or	or
Diameter of Borehole 0 m	Diameter of Borehole 0 m	Diameter of Borehole 0 m
Surface area of pit 1.26 m ²	Surface area of pit 1.26 m ²	Surface area of pit 1.26 m ²
Effective Depth (initial depth of water) 1 m	Effective Depth (initial depth of water) 1.03 m	Effective Depth (initial depth of water) 0.81 m
Gravel Void Ratio 30.00%	Gravel Void Ratio 30.00%	Gravel Void Ratio 30.00%
V_{p75-25} 0.189 m ³	V_{p75-25} 0.19467 m ³	V_{p75-25} 0.15309 m ³
a_{p50} 3.96 m ²	a_{p50} 4.041 m ²	a_{p50} 3.447 m ²
t_{p75-25} time for water to fall from 0.75 m	t_{p75-25} time for water to fall from 0.7725 m	t_{p75-25} time for water to fall from 0.6075 m
to 0.25 m	to 0.2575 m	to 0.2025 m
$t_{p75-25} = 93$ s	$t_{p75-25} = 103.8$ s	$t_{p75-25} = 78$ s
Infiltration rate = $V_{p75-25} / (a_{p50} \times t_{p75-25})$	Infiltration rate = $V_{p75-25} / (a_{p50} \times t_{p75-25})$	Infiltration rate = $V_{p75-25} / (a_{p50} \times t_{p75-25})$
Infiltration rate = 5.13E-04 m/s	Infiltration rate = 4.64E-04 m/s	Infiltration rate = 5.69E-04 m/s

RAW DATA				RAW DATA				RAW DATA			
mins	depth bgl	water depth		mins	depth bgl	water depth		mins	depth bgl	water depth	
0	1.5			0	1.47			0	1.69		
0.53	1.7491	1.75	0.75	0.83	1.7273	1.7275	0.7725	0.69	1.8901	1.8925	0.6075
1	1.97			1	1.78			1	1.98		
2	2.23			2	2.07			1.99	2.2968	2.2975	0.2025
2.08	2.25	2.25	0.25	2.56	2.2436	2.2425	0.2575	2	2.3		
3	2.48			3	2.38			3	2.5		
				4	2.5						