Using the principles of BRE Digest 356 we have been able to determine infiltration rates for each of the locations you performed percolation tests on the17th September 2025.

The infiltration rates for all of the test pits exceed the design infiltration rate used in the hydraulic model (0.05 m/hour)- often by some margin. There is little doubt that the soakaways in the proposed design will perform to the required standards.

Location	**TP01**	**TP02**	**TP03**	**TP04**	**TP05**
Total Depth (m)	1.5	1.5	1.5	1.5	1.5
Pit Dimensions (m)	1x1	1x1	1x1	1x1	1x1
Start Time (mins)	0.000	0.000	0.000	0.000	0.000
Start Depth (m BGL)	1.100	1.300	1.200	1.030	1.050
End Time (mins)	20.000	36.000	30.000	60.000	180.000
End Depth (m BGL)	1.300	1.450	1.420	1.450	1.450
Pit Area m^2	1.000	1.000	1.000	1.000	1.000
Pit Circumference	4.000	4.000	4.000	4.000	4.000
Drop in water level (m)	0.200	0.150	0.220	0.420	0.400
Average Water Depth (m)	0.300	0.125	0.190	0.260	0.250
Average Infiltration Surface Area (m^2)	2.200	1.500	1.760	2.040	2.000
Volume of Infiltrated Water (m^3)	0.200	0.150	0.220	0.420	0.400
Infiltration Rate (m/hour)	**0.273**	**0.167**	**0.250**	**0.206**	**0.067**
Infiltration Rate (m/sec)	7.58E-05	4.63E-05	6.94E-05	5.72E-05	1.85E-05