

Surface Water Management.

Site: 54 Valley Park, Whitehaven

Three soakaways are proposed as onsite management of surface water. Two separate percolation tests have been conducted with a maximum of 350 minutes of elapsed time for water to discharge to ground.

Percolation Test Results.

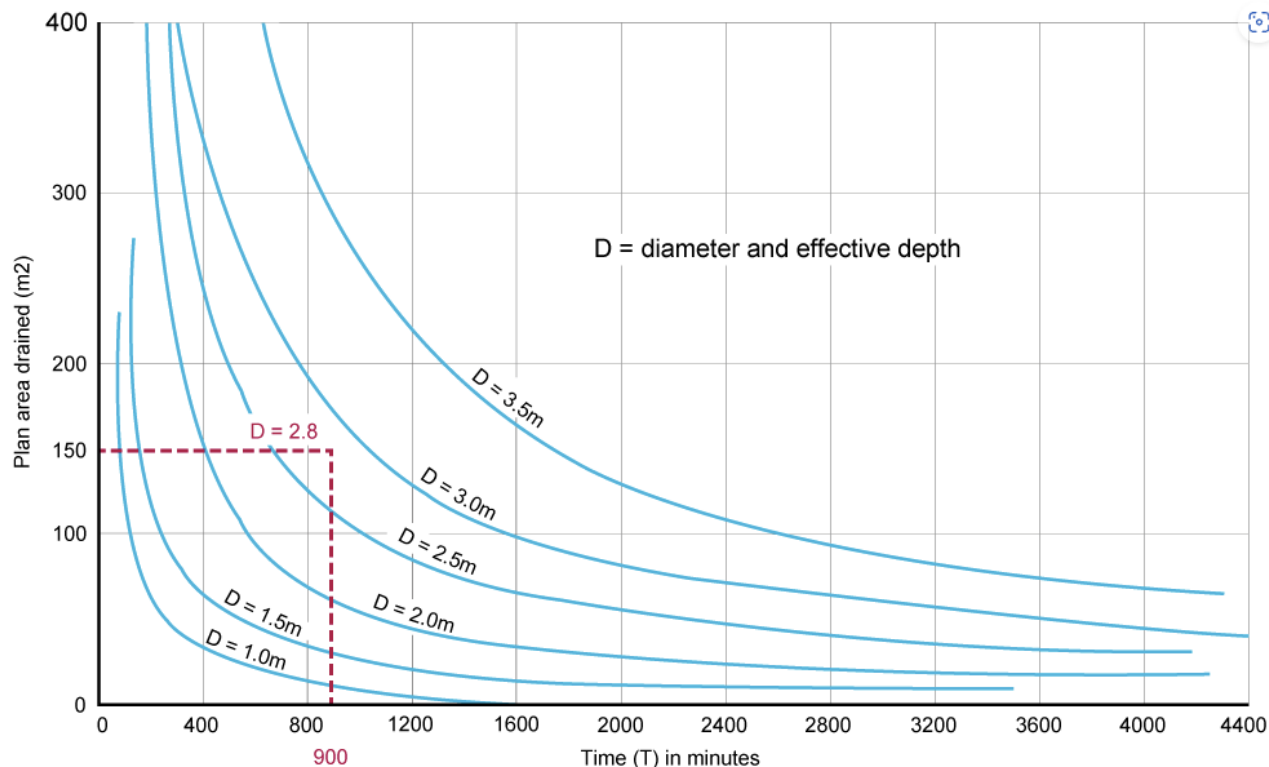
Hole #1 Front Garden	Date	Test	Start Time (Level @ 75%)	Finish Time (Level @ 25%)	Elapsed Time		
					Hours	Minutes	Seconds
	10/05/24	1	15:20	20:40	5 Hrs 30Mins	330 Mins	19800 Secs
	11/05/24	2	09:25	14:55	5 Hrs 25Mins	325 Mins	19500 Secs
	11/05/24	3	15:40	21:30	5 Hrs 50Mins	350 Mins	21000 Secs

Hole #2 Back Garden	Date	Test	Start Time (Level @ 75%)	Finish Time (Level @ 25%)	Elapsed Time		
					Hours	Minutes	Seconds
	10/05/24	1	15:20	20:30	5 Hrs 10 Mins	310 Mins	18600 Secs
	11/05/24	2	09:50	15:10	5 hrs 20 Mins	320 Mins	19200 Secs
	11/05/24	3	15:45	21:15	5 Hrs 30 Mins	330 Mins	19800 Secs

Soakaway Proposals

Based on NHBC guidance (5.3 Drainage below ground) three 1.2m diameter/effective depth soakaway pits are required. Filled with proprietary soakaway matrix installed and verified by specialist supplier. Final details of precise specifications to be provided and approved by Building Control prior to installation.

NHBC 5.3.11 Surface Water Soakaways



Surface area to be drained – approx. 150sq.m
 Three soakaways – each to hold discharge from 50sq.m
 Percolation test result to soakaway – 350 minutes

From the graph above this gives an equivalent of 1.2m diameter pit with an effective dept of 1.2 sq.m (1.44 cubic meters per pit, 4.32 cubic meters in total). Soakaways to be located in front and rear gardens