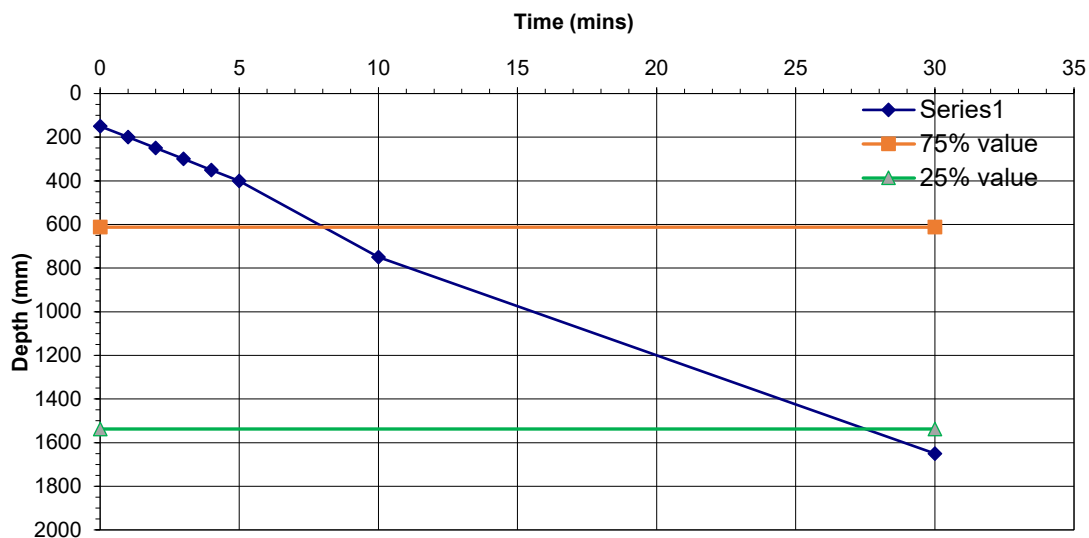


**SOAKAWAY DESIGN IN ACCORDANCE WITH BRE DIGEST 365: 2007**  
**BRE Digest 365, Figure 2, Page 5**

<b>Client:</b>	<b>Community Roots</b>		
<b>Site:</b>	<b>Carn View Porthtowan Gardens</b>		
<b>Job No:</b>	<b>N/A</b>	<b>Test No:</b>	<b>TP01 Test 1</b>
<b>Date</b>			

**CALCULATION OF SOIL INFILTRATION RATE**

Time (min)	Depth (mm)		Size of Soakaway	Length (m) =	2.90
0	150			Width (m) =	0.70
1	200			Depth (m) =	2.00
2	250				
3	300	Depth to water at start of test =			150mm
4	350	Depth to base of pit =			2000mm
5	400	Depth to water at 75% level =			613mm
10	750	Depth to water at 50% level =			1075mm
30	1650	Depth to water at 25% level =			1538mm
		Base area of pit (m <sup>2</sup> ) =			2.030
		Eff area of loss 75 - 25% (m <sup>2</sup> ) =			8.690
		Volume outflow 75 - 25% (m <sup>3</sup> ) =			1.878
		From the graph:			
		tp 75 (min) =			7
		tp 25 (min) =			23
		Soil infiltration rate, f, (m/s) =			2.25E-04
					normal test
					pit with stone
		Tested by:	CR	Date:	02/10/2023
		Checked by:	MJA	Date:	02/10/2023



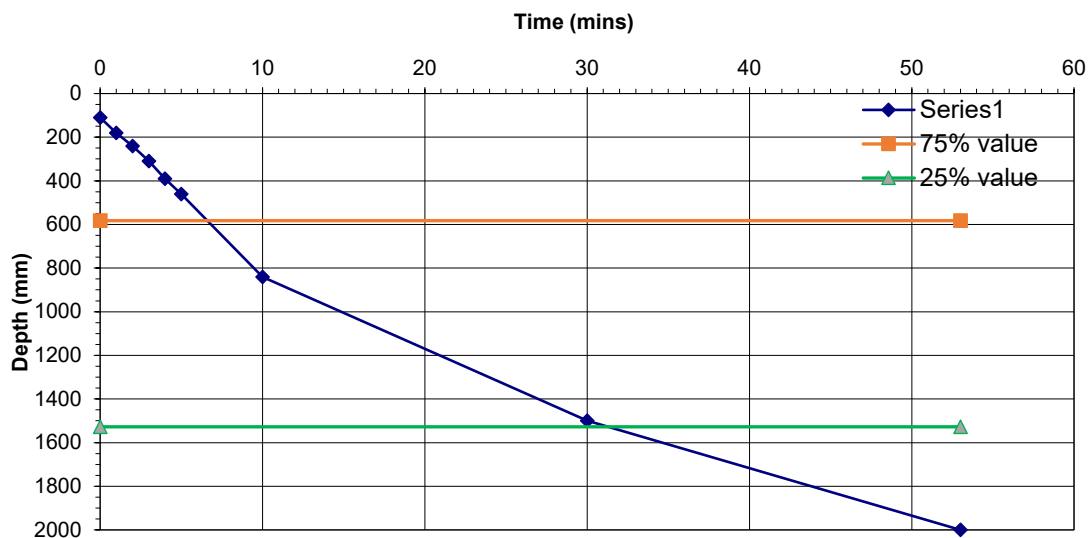
Notes

**SOAKAWAY DESIGN IN ACCORDANCE WITH BRE DIGEST 365: 2007**  
**BRE Digest 365, Figure 2, Page 5**

<b>Client:</b>	<b>Community Roots</b>		
<b>Site:</b>	<b>Carn View Porthtowan Gardens</b>		
<b>Job No:</b>	<b>N/A</b>	<b>Test No:</b>	<b>TP01 Test 2</b>
<b>Date</b>			

**CALCULATION OF SOIL INFILTRATION RATE**

Time (min)	Depth (mm)		Size of Soakaway	Length (m) =	2.90
0	110			Width (m) =	0.70
1	180			Depth (m) =	2.00
2	240				
3	310	Depth to water at start of test =			110mm
4	390	Depth to base of pit =			2000mm
5	460	Depth to water at 75% level =			583mm
10	840	Depth to water at 50% level =			1055mm
30	1500	Depth to water at 25% level =			1528mm
53	2000				
		Base area of pit (m <sup>2</sup> ) = 2.030			
		Eff area of loss 75 - 25% (m <sup>2</sup> ) = 8.834			
		Volume outflow 75 - 25% (m <sup>3</sup> ) = 1.918			
		Soil infiltration rate, f, (m/s) =		1.45E-04	normal test
					pit with stone
		Tested by:	CR	Date:	02/10/2023
		Checked by:	MJA	Date:	02/10/2023



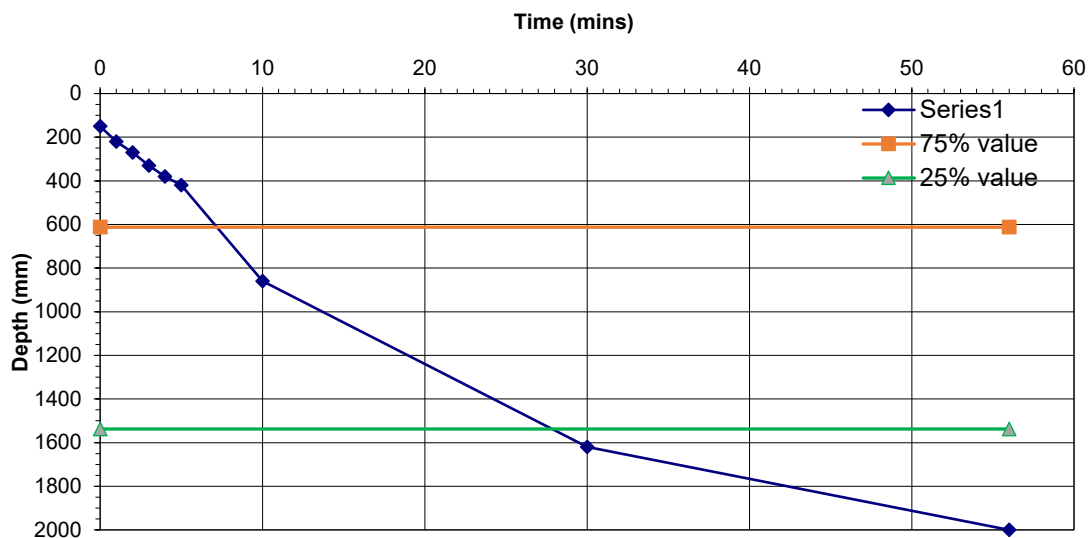
Notes

**SOAKAWAY DESIGN IN ACCORDANCE WITH BRE DIGEST 365: 2007**  
BRE Digest 365, Figure 2, Page 5

<b>Client:</b>	Community Roots		
<b>Site:</b>	Carn View Porthtowan Gardens		
<b>Job No:</b>	N/A	<b>Test No:</b>	TP01 Test 3
<b>Date</b>			

**CALCULATION OF SOIL INFILTRATION RATE**

Time (min)	Depth (mm)		Size of Soakaway	Length (m) =	2.90
0	150			Width (m) =	0.70
1	220			Depth (m) =	2.00
2	270				
3	330	Depth to water at start of test =			150mm
4	380	Depth to base of pit =			2000mm
5	420	Depth to water at 75% level =			613mm
10	860	Depth to water at 50% level =			1075mm
30	1620	Depth to water at 25% level =			1538mm
56	2000				
		Base area of pit (m <sup>2</sup> ) =			2.030
		Eff area of loss 75 - 25% (m <sup>2</sup> ) =			8.690
		Volume outflow 75 - 25% (m <sup>3</sup> ) =			1.878
		Soil infiltration rate, f, (m/s) =		1.68E-04	normal test
					pit with stone
		Tested by:	CR	Date:	02/10/2023
		Checked by:	MJA	Date:	02/10/2023



Notes