

SOAKAWAY DESIGN IN ACCORDANCE WITH BRE DIGEST 365

Client	Rowden Hill Holdings Ltd
Site	49, 51 & 53 Rowden Hill, Chippenham
Project No.	19979
Test date	01-Sep-25
Test supervised by	Andrew Mounterj

CALCULATION OF SOIL INFILTRATION RATE

Time (min)	Depth (mm)
0	975
112	615
171	565
1215	430
1328	425

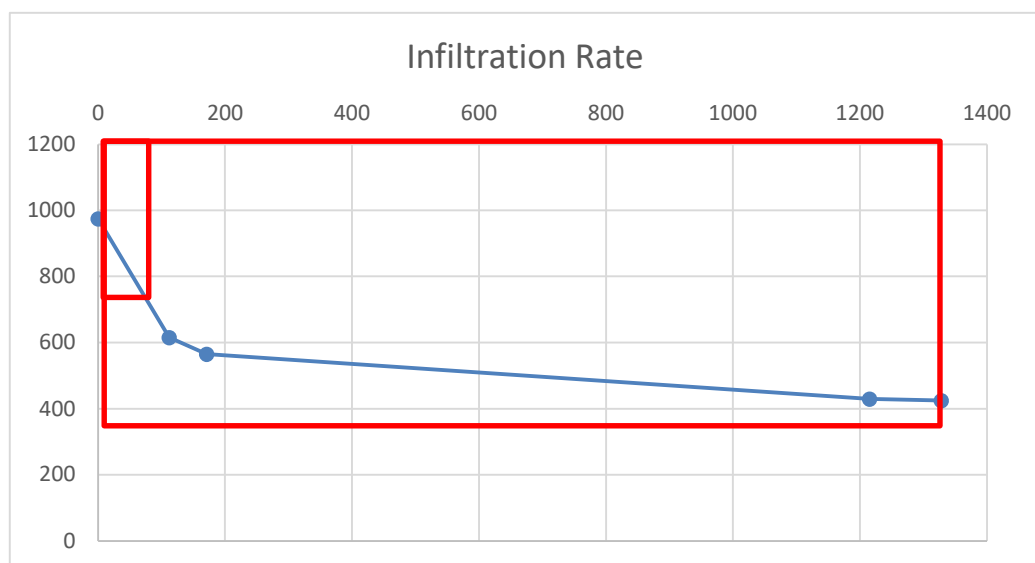
Trial pit/Test No.	SA1/1
Length (m)	1.400
Width (m)	0.300
Depth (m)	1.300

Depth to water at start of test (m)	0.975
Depth to water at end of test (m)	0.000
Depth to water at 75% level (m)	0.731
Depth to water 50% level (m)	0.488
Depth to water at 25% level (m)	0.244

Base area of trial pit	0.42
a_{P50}	3.1825
V_{P75-25}	-0.20475

from the graph (below)	
t_{P75}	75
t_{P25}	-

Soil infiltration rate, f	=	-	m/s
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CALCULATION OF SOIL INFILTRATION RATE

Time (min)	Depth (mm)
0	975
154	385
205	380
1257	340
1369	335

Trial pit/Test No.	SA1/1
Length (m)	1.400
Width (m)	0.300
Depth (m)	1.300

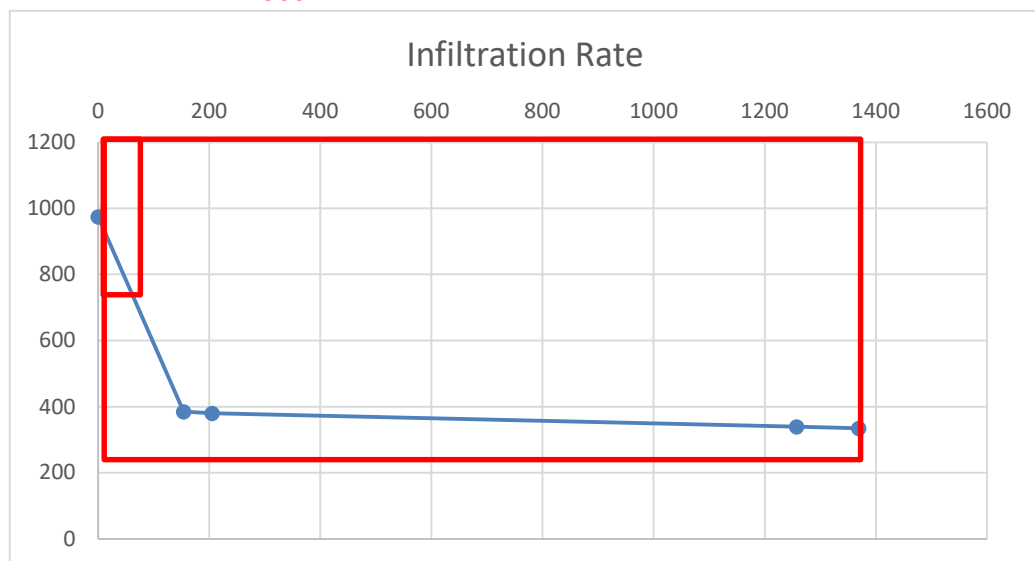
Depth to water at start of test (m)	0.975
Depth to water at end of test (m)	0.000
Depth to water at 75% level (m)	0.731
Depth to water 50% level (m)	0.488
Depth to water at 25% level (m)	0.244

Base area of trial pit	0.42
a_{P50}	3.1825
V_{P75-25}	-0.20475

from the graph (below)	
t_{P75}	60
t_{P25}	-

Soil infiltration rate, f	=	-	m/s
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* INVALID TEST. LAND DRAIN HIT AT 500mm.



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CALCULATION OF SOIL INFILTRATION RATE

Time (min)	Depth (mm)
0	975
163	775
1198	615
1310	615

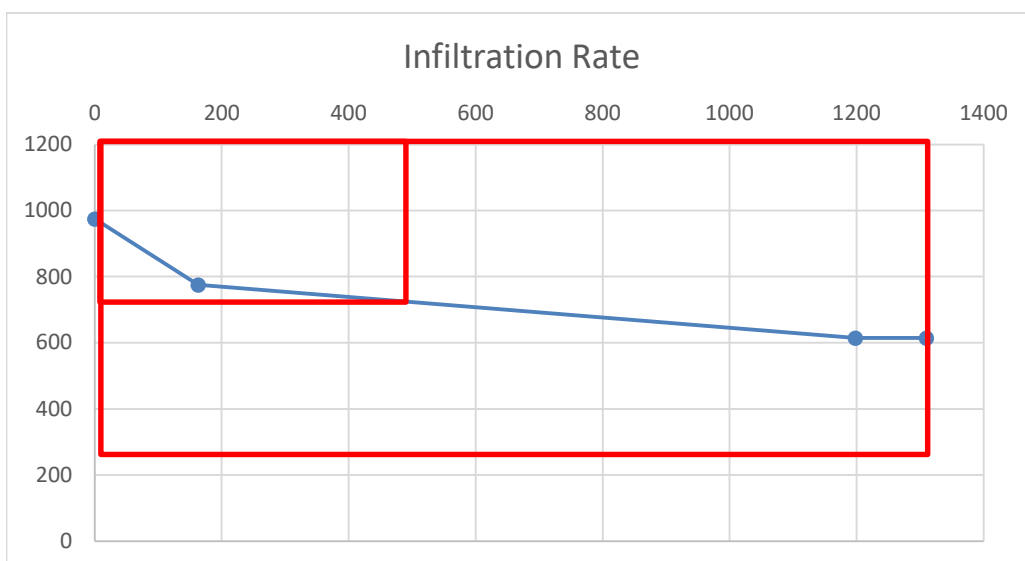
Trial pit/Test No.	SA1/1
Length (m)	1.400
Width (m)	0.300
Depth (m)	1.300

Depth to water at start of test (m)	0.975
Depth to water at end of test (m)	0.000
Depth to water at 75% level (m)	0.731
Depth to water 50% level (m)	0.488
Depth to water at 25% level (m)	0.244

Base area of trial pit	0.42
a_{P50}	3.1825
V_{P75-25}	-0.20475

from the graph (below)	
t_{p75}	475
t_{p25}	-

Soil infiltration rate, f	=	-	m/s
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CALCULATION OF SOIL INFILTRATION RATE

Time (min)	Depth (mm)
0	975
1	765
136	575
189	575
1244	535
1355	535

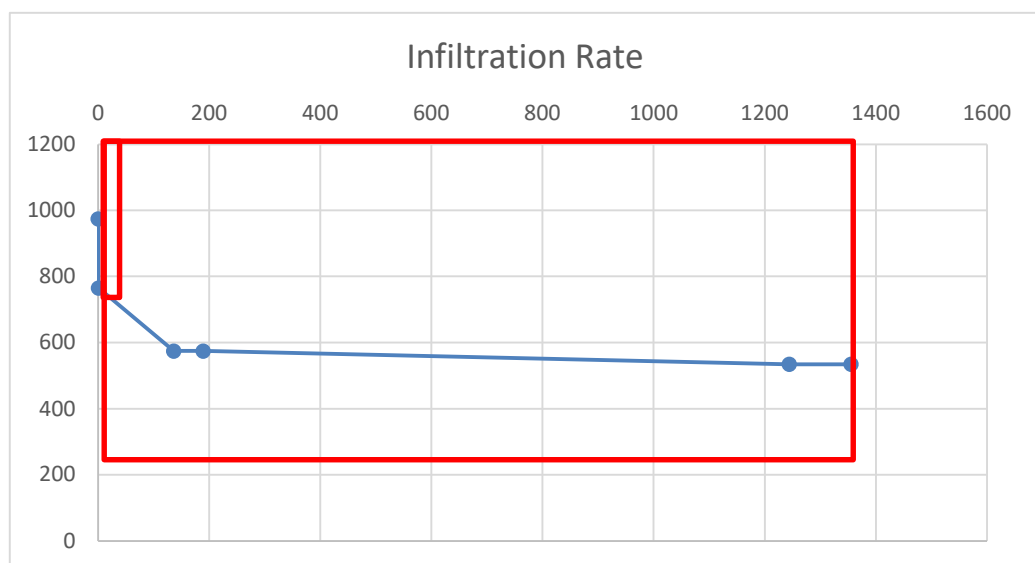
Trial pit/Test No.	SA1/1
Length (m)	1.600
Width (m)	0.440
Depth (m)	1.300

Depth to water at start of test (m)	0.975
Depth to water at end of test (m)	0.000
Depth to water at 75% level (m)	0.731
Depth to water 50% level (m)	0.488
Depth to water at 25% level (m)	0.244

Base area of trial pit	0.704
a_{P50}	4.019
V_{P75-25}	-0.3432

from the graph (below)	
t_{P75}	25
t_{P25}	-

Soil infiltration rate, f	=	-	m/s
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CALCULATION OF SOIL INFILTRATION RATE

Time (min)	Depth (mm)
0	975
7	705
80	685
1107	600
1216	590

Trial pit/Test No.	SA1/1
Length (m)	1.400
Width (m)	0.300
Depth (m)	1.300

Depth to water at start of test (m)	0.975
Depth to water at end of test (m)	0.000
Depth to water at 75% level (m)	0.731
Depth to water 50% level (m)	0.488
Depth to water at 25% level (m)	0.244

Base area of trial pit	0.42
a_{P50}	3.1825
V_{P75-25}	-0.20475

from the graph (below)	
t_{P75}	6
t_{P25}	-

Soil infiltration rate, f	=	#VALUE!	m/s
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