

# HUMBERSIDE MATERIALS LABORATORY LTD

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## DETERMINATION OF SOIL INFILTRATION RATE

Sample Ref S/75997/02

Client John Richardson

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Site Mendle Farm, Holme  
Location TP2  
Date tested 26/08/2025  
Determined by D. Driver (HML)  
Soil type Slightly silty fine to medium SAND

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Calculation of Soil Infiltration Rate :- BRE Digest No. 365

Calculation Data			
<b>Soakaway pit No</b>	<b>TP2</b>		
Anticipated invert level	Unknown		
Pit Dimensions (l x w x d) (m)	1.50	0.45	0.95
Effective Depth (75% - 25%)	Determination 1	0.250	m
	Determination 2	0.250	m
	Determination 3	0.260	m
Effective volume (75% - 25%)	Determination 1	0.169	m <sup>3</sup>
	Determination 2	0.169	m <sup>3</sup>
	Determination 3	0.176	m <sup>3</sup>
Effective Surface Area (75% - 25%)	Determination 1	1.650	m <sup>2</sup>
	Determination 2	1.650	m <sup>2</sup>
	Determination 3	1.689	m <sup>2</sup>
Time for soakaway (75%-25% effective depth)	Determination 1	26100	Sec.
	Determination 2	28200	Sec.
	Determination 3	31080	Sec.
<b>Soil Infiltration Rate (m/s)</b>	<b>Determination 1</b>	<b>3.92E-06</b>	<b>m/s</b>
	<b>Determination 2</b>	<b>3.63E-06</b>	<b>m/s</b>
	<b>Determination 3</b>	<b>3.34E-06</b>	<b>m/s</b>

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Comments

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File ref 1260/5063/G  
Date tested 26/08/2025  
Date reported 29/08/2025

Signed - M.Driver / D. Driver / C. Driver  
Director