## **Percolation Test Details**



Before carrying out the testing procedure, a trial hole should be dug to determine the position of the standing water table. The trial hole should be a minimum of 1m² in area and 2m deep, or a minimum of 1.5m below the invert of the proposed drainage field pipework. The groundwater table should not rise to within 1m of the invert level of the proposed effluent distribution pipe.

## **PROCEDURE**

Full name: Address: Reference:

- (1) A hole 300mm square should be excavated to a depth 300mm below the proposed invert level of the effluent distribution pipe.
- (2) Fill the 300mm square section of the hole to a depth at least 300mm with water and allow it to seep away overnight.
- (3) Next day, refill the test section with water to a depth of at least 300mm and observe the time, in seconds, for the water to seep away from 75% full to 25% full level. Divide this time by 150mm. The answer gives the average time in seconds (Vp) required for the water to drop 1mm.
- (4) The test should be carried out at least three times with at least two trial holes (care to be taken to avoid abnormal conditions i.e. heavy rain, severe frost, and drought).

Relationship to project:		
TEST No. 1, Trial Hole 1		
Date:		
Weather Conditions:		
A) Depth of water (Minimum 300mm):		
B) Time in seconds taken to seep away:		
Average time for water to drop to 1mm (B/A):		
TEST No. 2, Trial Hole 1		
Date:		
Weather Conditions:		
A) Depth of water (Minimum 300mm):		
B) Time in seconds taken to seep away:		
Average time for water to drop to 1mm (B/A):		
TEST No. 3, Trial Hole 1		
Date:		
Weather Conditions:		
A) Depth of water (Minimum 300mm):		
B) Time in seconds taken to seep away:		
Average time for water to drop to 1mm (B/A):		
TEST No. 4, Trial Hole 2		
Date:		
Weather Conditions:		
A) Depth of water (Minimum 300mm):		
B) Time in seconds taken to seep away:		
Average time for water to drop to 1mm (B/A):		

Date:  Weather Conditions: A) Depth of water (Minimum 300mm): B) Time in seconds taken to seep away:  Average time for water to drop to 1mm (B/A):  TEST No. 6, Trial Hole 2  Date:  Weather Conditions: A) Depth of water (Minimum 300mm): B) Time in seconds taken to seep away:  Average time for water to drop to 1mm (B/A):  C) Average of the 6 tests (Vp): (1 + 2 + 3 + 4 + 5 + 6)/6  Floor area of land drainage trench (M²) required for irrigation: = (C) X 0.25 X No. of persons  Signature:  Date:	TEST No. 5, Trial Hole 2	
A) Depth of water (Minimum 300mm):  B) Time in seconds taken to seep away:  Average time for water to drop to 1mm (B/A):  TEST No. 6, Trial Hole 2  Date:  Weather Conditions:  A) Depth of water (Minimum 300mm):  B) Time in seconds taken to seep away:  Average time for water to drop to 1mm (B/A):  C) Average of the 6 tests (Vp):  (1 + 2 + 3 + 4 + 5 + 6)/6  Floor area of land drainage trench (M²)  required for irrigation:  = (C) X 0.25 X No. of persons  Signature:	Date:	
B) Time in seconds taken to seep away:  Average time for water to drop to 1mm (B/A):  TEST No. 6, Trial Hole 2  Date:  Weather Conditions:  A) Depth of water (Minimum 300mm):  B) Time in seconds taken to seep away:  Average time for water to drop to 1mm (B/A):  C) Average of the 6 tests (Vp): (1+2+3+4+5+6)/6  Floor area of land drainage trench (M²) required for irrigation: = (C) X 0.25 X No. of persons  Signature:	Weather Conditions:	
Average time for water to drop to 1mm (B/A):  TEST No. 6, Trial Hole 2  Date:  Weather Conditions:  A) Depth of water (Minimum 300mm):  B) Time in seconds taken to seep away:  Average time for water to drop to 1mm (B/A):  C) Average of the 6 tests (Vp): (1+2+3+4+5+6)/6  Floor area of land drainage trench (M²) required for irrigation:  = (C) X 0.25 X No. of persons  Signature:	A) Depth of water (Minimum 300mm):	
TEST No. 6, Trial Hole 2  Date:  Weather Conditions:  A) Depth of water (Minimum 300mm):  B) Time in seconds taken to seep away:  Average time for water to drop to 1mm (B/A):  C) Average of the 6 tests (Vp): (1+2+3+4+5+6)/6  Floor area of land drainage trench (M²) required for irrigation: = (C) X 0.25 X No. of persons  Signature:	B) Time in seconds taken to seep away:	
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A) Depth of water (Minimum 300mm):  B) Time in seconds taken to seep away:  Average time for water to drop to 1mm (B/A):  C) Average of the 6 tests (Vp): (1 + 2 + 3 + 4 + 5 + 6)/6  Floor area of land drainage trench (M²) required for irrigation: = (C) X 0.25 X No. of persons  Signature:	Date:	
B) Time in seconds taken to seep away:  Average time for water to drop to 1mm (B/A):  C) Average of the 6 tests (Vp): (1 + 2 + 3 + 4 + 5 + 6)/6  Floor area of land drainage trench (M²) required for irrigation:  = (C) X 0.25 X No. of persons  Signature:	Weather Conditions:	
Average time for water to drop to 1mm (B/A):  C) Average of the 6 tests (Vp): (1 + 2 + 3 + 4 + 5 + 6)/6  Floor area of land drainage trench (M²) required for irrigation: = (C) X 0.25 X No. of persons  Signature:	A) Depth of water (Minimum 300mm):	
C) Average of the 6 tests (Vp): (1 + 2 + 3 + 4 + 5 + 6)/6  Floor area of land drainage trench (M²) required for irrigation: = (C) X 0.25 X No. of persons  Signature:	B) Time in seconds taken to seep away:	
(1 + 2 + 3 + 4 + 5 + 6)/6  Floor area of land drainage trench (M²) required for irrigation: = (C) X 0.25 X No. of persons  Signature:	Average time for water to drop to 1mm (B/A):	
(1 + 2 + 3 + 4 + 5 + 6)/6  Floor area of land drainage trench (M²) required for irrigation: = (C) X 0.25 X No. of persons  Signature:		
Floor area of land drainage trench (M²) required for irrigation: = (C) X 0.25 X No. of persons  Signature:	C) Average of the 6 tests (Vp):	
required for irrigation: M² = (C) X 0.25 X No. of persons  Signature:	(1+2+3+4+5+6)/6	
= (C) X 0.25 X No. of persons  Signature:	Floor area of land drainage trench (M <sup>2</sup> )	
Signature:	required for irrigation:	M <sup>2</sup>
	= (C) X 0.25 X No. of persons	
Date:	Signature:	
	Date:	