

**WHITPAIN TOWNSHIP  
INFILTRATION TESTING PROCEDURE  
DOUBLE RING INFILTROMETER**

*Equipment*

Two concentric, solid cylinder rings 6-inches or greater in height. Inner ring diameter must equal 50% to 70% of the outer ring diameter (i.e., 8-inch ring and a 12-inch ring).

*Site Preparation*

Prepare a level testing area at the bottom elevation of the proposed infiltration facility.

Set outer ring in place and drive ring a minimum of 2-inches into the soil.

Set inner ring in center of outer ring and drive ring a minimum of 2-inches into the soil. (The bottom of both rings should be at the same level.)

*Testing Procedure*

Presoak        Presoak should be conducted immediately prior to testing.

Fill both rings with water to indicator mark, or the rim of the rings at 30 minute intervals for 1 hour. (Minimum water depth of 4")

The drop in water level in the inner ring, during the last 30 minute interval of the presoak should be utilized to determine the time interval between readings (record this reading), utilizing the following standards.

2-inches or more:     10 minute measurement intervals  
Less than 2-inches:   30 minute measurement intervals

Test            Obtain and record the drop in water level in the inner ring at the appropriate interval.

Refill both rings to the mark or rim after each reading for 8 consecutive readings, or until a stabilized rate is achieved. (A stabilized rate means a difference of ¼-inch or less of drop between the lowest and highest readings of four consecutive measurements.)

The drop that occurs in the inner ring during the final interval, averaged with all of the test areas within that infiltration facility shall represent the average infiltration rate for that facility.