



## Soil Infiltration Test Worksheet

Please use this worksheet to record your soil infiltration test results. **You will need this to complete the RainSmart Rebates rain garden design.**

**Reminders:**

1. Call Miss Dig at least 72 hours (3 business days) prior to any work.
2. Collect your equipment:
  - a. Shovel
  - b. Measuring tape
  - c. Water
  - d. Pencil

**For detailed instructions, please visit the Resources page at [www.oakgov.com/rainsmart](http://www.oakgov.com/rainsmart).**

1. Dig a hole in the location of your planned rain garden. The hole should be the width of your shovel and 18 inches deep.
  - a. If your hole fills up with water on its own – **STOP** and contact [rainsmart@oakgov.com](mailto:rainsmart@oakgov.com) before proceeding.
2. Fill the hole with water and wait until it is dry. This could take anywhere from several minutes to several hours. If water is still in the hole after 24 hours, it is recommended that you find another location for your rain garden or plan to completely remove all soil within the rain garden location.
3. Within 12 hours of the hole absorbing the first round of water, fill the hole again with 12 inches of water and time how long it takes to infiltrate. You should fill out the table below:

Drain Time (Hours)	Water Depth (2 <sup>nd</sup> Fill)
0	12"
1	
2	
3	
4	
5	
6	

$$\text{Infiltration Rate (in/hr)} = \frac{12'' - (\text{Depth at hour 6})}{6 \text{ hours}}$$

*For example, if your hole had 3 inches of water remaining at hour 6, your infiltration rate would be:*

$$\frac{12'' - 3''}{6 \text{ hours}} = \frac{9''}{6 \text{ hours}} = \frac{1.5 \text{ inches}}{\text{hour}}$$

Depth at hour 6 = \_\_\_\_\_ inches

Infiltration Rate = \_\_\_\_\_ inches/hour