

## Vertical Separation Requirements

Vertical separation requirements shall be evaluated when performing a subsurface investigation. Infiltration BMPs require a minimum vertical separation from the lowest elevation of the facility to the underlying groundwater table or hydraulically-restrictive material. The vertical separation requirements depend upon the type of subsurface investigation required and the seasonal timing of the geotechnical exploration conducted to evaluate clearance and are always at least one foot less than the minimum investigation depths summarized in *Appendix D, Sections D-2.3 through D-2.5*.

### **Step 4: Conduct Infiltration Testing**

This manual includes four methods of field infiltration testing to determine the measured infiltration rate:

- Simple Test (Small-scale infiltration test)
- Small Pilot Infiltration Test (PIT)
- Large PIT
- Deep infiltration test

The type of infiltration test required for a project is provided in Table 3.1 and Table 3.2 and varies by the impervious surface area routed to infiltration BMPs on a site. Infiltration testing procedures are provided in *Appendix D*. The small PIT, large PIT, and deep infiltration test reports shall be prepared by a licensed professional experienced in infiltration testing.

The minimum allowed infiltration rates are provided in Table 3.3.

**Table 3.3. Minimum Measured Infiltration Rates.**

<b>Infiltration BMP</b>	<b>Minimum Infiltration Rate for On-site List Approach, in/hr</b>	<b>Minimum Allowed Infiltration Rate for Meeting Flow Control, Water Quality Treatment and On-site Performance Standards, in/hr</b>
Infiltration Trenches	5	5
Drywells	5	5
Infiltrating Bioretention without underdrain	0.6	0.6
Infiltrating Bioretention with underdrain	0.3	No minimum
Rain Gardens	0.3	Not applicable (only for On-site List Approach)
Permeable Pavement Facility	0.3	0.3 <sup>b</sup>
Permeable Pavement Surface	0.3 <sup>a</sup>	No minimum
Perforated Stub-out Connections	0.3	Not applicable (only for On-site List Approach)
Infiltration Basins	Not applicable	0.6
Infiltration Chambers	Not applicable	0.6

<sup>a</sup> Infiltration testing not required, only necessary to prove infeasibility.

<sup>b</sup> No minimum infiltration rate if underdrain is installed.