

**Exhibit 1** – A summary of common obstacles measured at the Portable Radio Research Group at Virginia Polytechnic Institute in Blacksburg, Virginia:

<b>Shadowing Element</b>	<b>Loss</b>
Brick house exterior	14.5 dB
Wood siding exterior	8.8 dB
Cinderblock wall	22 dB
Subterranean basement loss	31 dB
Interior wall	4.7 dB
Small deciduous tree	3.5 dB
Large deciduous tree	11 dB
Large coniferous tree	14 dB