

## **Executive Summary**

Today less than 66% of the residents of the Town of Raymond have access to limited wireless service from US Cellular's PCS network. Additionally, commuters traveling through Raymond have limited coverage on some of the major corridors between Raymond and the neighboring towns and several of the secondary roads.

US Cellular currently has only one site in Raymond on the Raymond/Windham line, which serves predominantly the southern portion of Raymond and Route 302. To the west US Cellular has two sites in Casco that provide some coverage to western Raymond and route 302. All remaining coverage is "patchy" unreliable coverage originating from five other distant sites in neighboring towns and "splashing" signals all over Raymond. US Cellular is seeking to fill-in the existing gaps in central and northern Raymond by building the proposed facility. Predictive analyses show that a tower at the proposed location, with a minimum height of 125' will establish a "dominant server" to the residents of central and northern Raymond and provide the needed fill-in coverage to most of the major roads currently served with only "spotty" coverage.

US Cellular investigated the existing WGME Tower off of Brown Hill Road and the towers on Black Cat Mountain. Analysis shows that a facility at either of these existing locations will not meet the coverage objectives of this search area. The WGME tower to the south provides predominantly redundant coverage to the existing Raymond Crown Castle site, adding little coverage to the gaps along the major commuter and town roads currently lacking service. Similarly, the Black Cat Mountain site in Poland is blocked by terrain just north of Mountain Road, preventing it from covering Route 85, Egypt and Meadow Roads. There are no other existing structures within Raymond or near the search area that could provide the coverage requirements needed for this area. The location and the minimum height selected were chosen to achieve an optimal balance between meeting coverage objectives, clearing the tree line, minimizing the aesthetic impact to the community, and future collocation.

As depicted in the enclosed plots, the proposed USC site, at a height of 125 feet will provide the much needed fill-in coverage for this area, providing an appropriate coverage footprint for the residents of Raymond along with effective connectivity to the rest of USC's existing network.

Without this site in this area, at the height requested, significant gaps in service will exist within the Town of Raymond; therefore US Cellular anticipates that Raymond will look favorably upon the proposed facility.