



Sun Valley Group Communication Tower Zoning Letter

July 14, 2021

1777 Sentry Pkwy, Bldg. 11, Suite 201
Blue Bell, PA 19422

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Mr. Cliff Johnson, Supervising Planner
Humboldt County Planning and Building Department
3015 H Street
Eureka, California 95501

RE: Sun Valley Group vs. AT&T CCL02143 Humboldt County Arcata Bottoms Communication Tower comparison

Dear Mr. Johnson

With respect to the two (2) proposed communication towers within the Humboldt County Arcata Bottoms boundary namely:

Site 1 – Sun Valley Group, 3160 Upper Bay Rd., Arcata, CA 95521
Site 2 – CCL02143 ARCATA (AT&T), Foster Ave., Arcata CA 95521

Note that based on ATOLL Planning Software simulations conducted by Further Enterprise Solutions (FES), Site 1 (Sun Valley Group) is recommended over Site 2 (CCL02143 ARCATA). The Sun Valley Group site would provide reliable indoor coverage to the low-, medium- and high-density residential areas traversed by Lamp here, Mad River and Upper Bay Roads to the North; 27th, 29th & 17th Streets, Wyatt Lane, Roberts Way, Foster, and Stewart Avenues to the East; Foster Avenue, Bay school, Dolly Vardan, Vaissade and Pacheco Roads, Moxon Lane and Mariann Court to the South. Furthermore, it would provide reliable outdoor coverage to the residential areas of Alliance and the immediate vicinities traversed by Highways 101 & 255.

In terms of simulated Long-Term Evolution (LTE) coverage, Sun Valley Group provides 114.3% greater LTE700 footprint with larger indoor and outdoor coverage areas at 145.98% and 112.63% respectively compared to CCL02143 ARCATA. While LTE 2100 simulations show 119.3% greater footprint compared to CCL02143 ARCATA, indoor and outdoor coverage areas are 157.66% and 117.65% respectively larger with Sun Valley Group site.

With the above advantages of Sun Valley Group over CCL02143 ARCATA (AT&T), it appears the Sun Valley Group site would be a better site option to provide wireless connectivity to the Arcata target coverage area. The bigger LTE footprint from Sun Valley Group would enable the mostly residential dwellings and business establishments to access various wireless services and applications from the Wireless Service Providers (WSP).

For further details, Appendix 1 presents site coverage comparisons between Sun Valley Group and CCL02143 ARCATA (AT&T) with LTE coverage simulations in ATOLL 3.4.1. Appendix 2 contains KMZ files for viewing the LTE coverage plots of both Sun Valley Group and CCL02143 ARCATA (AT&T) sites in Google Earth.

Thank You and Best Regards,

Peter Mann
FES - Further Enterprise Solutions
1777 Sentry Pkwy, Bldg 11, Suite 201
Blue Bell, PA 19422
Pmann@furtherllc.com
Cell# 530 301 6420

Attachments:

Appendix 1: Arcata California Tower Site Coverage Summary (PDF)



Appendix1_Arcata_Tower Options_13J

Appendix 2: Arcata California Tower Google Earth KMZ files (ZIP)



Appendix2_Google_Earth_KMZ_Plots_13J