Verizon/Sequoia Deployment Communication Tower Appeal

PLN23-0179; CUP23-0015; EIS23-0010 20896 Dog Bar Road, Grass Valley CA, 95949

Nevada County Board of Supervisors: August 20, 2024 Project Planner: David Nicholas





Background

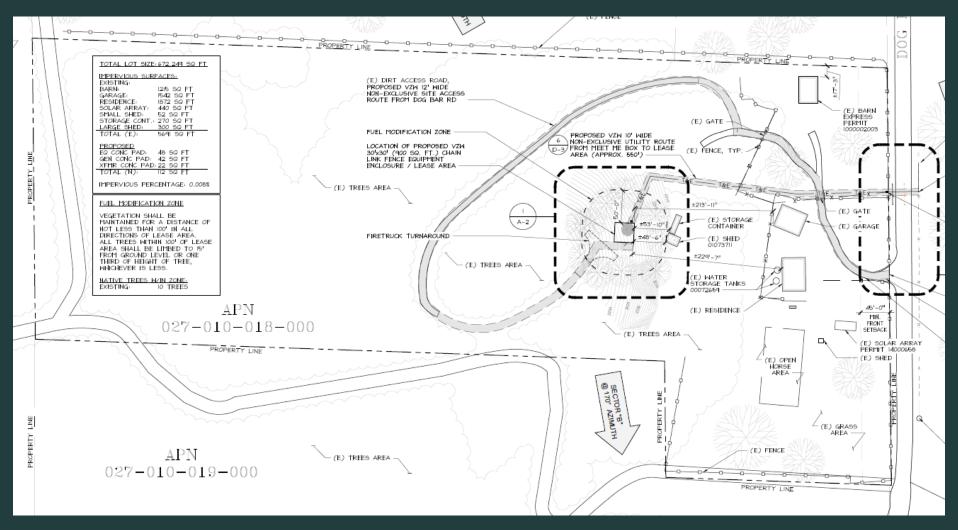
June 12, 2024: Zoning Administrator approved Use Permit for new unmanned wireless communication facility located at 20896 Dog Bar Road, Grass Valley,

June 24, 2024: Appellants filed appeal.

On July 9, 2024 the Board of Supervisors considered oral and written evidence regarding the appeal at a public hearing. The meeting was continued so more information can be provided by the applicant about aesthetics and whether there is a need for the cell tower.

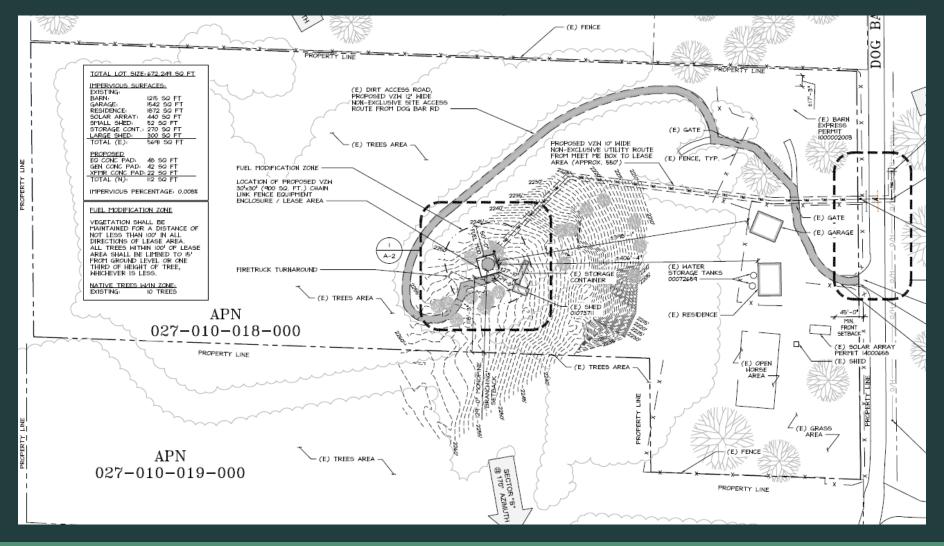


Original Site Plan





Corrected Site Plan





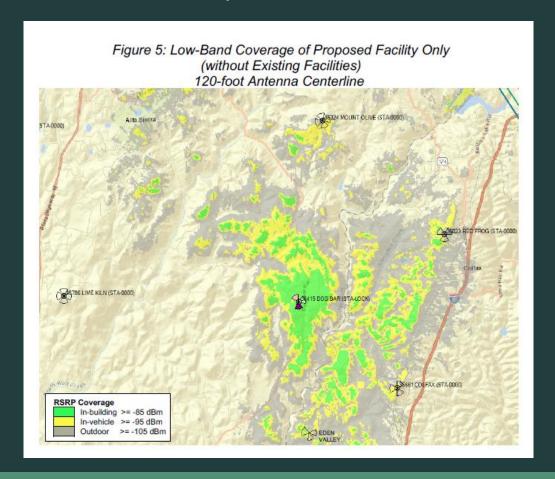
Analysis of Corrected Plans

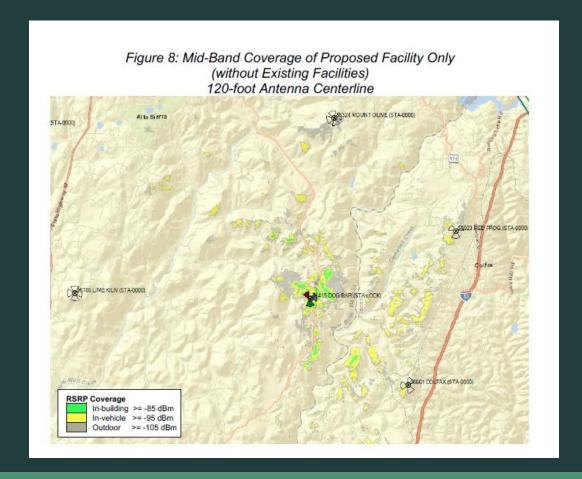
- The monopine tower is closer to the southern property line, but it is still setback 100% of its height which is in alignment with the County Communication tower code.
- The communication facility is outside of the required 30-foot setbacks of the AG zoning district.
- The generator was previously 187 feet from the nearest property line, but now it is shown as 141.5 feet from the nearest property line. This results in an increase in dB(A) of 3.4 (43.8 to 47.2).
- The biological analysis is not impacted by the change.
- Exposure levels for Verizon's site are calculated to be below the FCC's most stringent General Population Maximum Permissible Exposure Limits at property lines and areas accessible by the general population.



Additional Coverage Maps

Verizon Wireless provided additional coverage maps which were discussed in the staff report and will be discussed in their presentation.



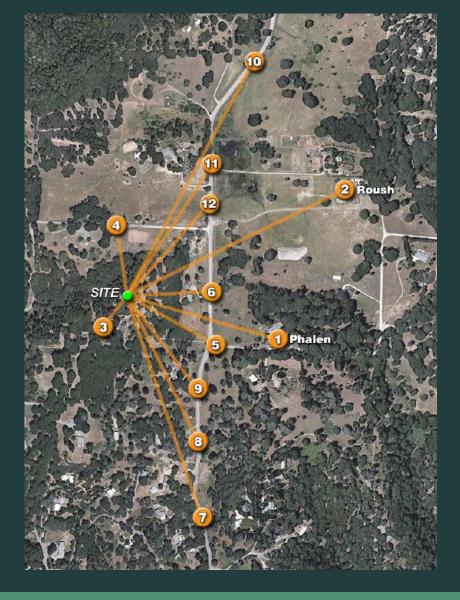




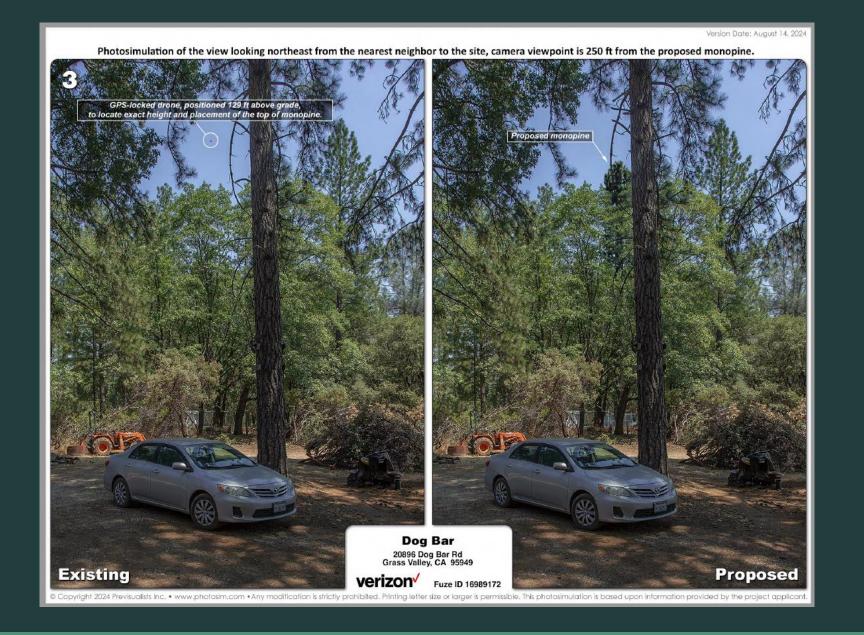
Additional Photo Simulations

Verizon Wireless/Sequoia Deployment provided 12 additional photo simulations showing the view of the proposed monopine from neighboring private properties.

This will be discussed in further detail in the applicant's presentation.









Recommendations

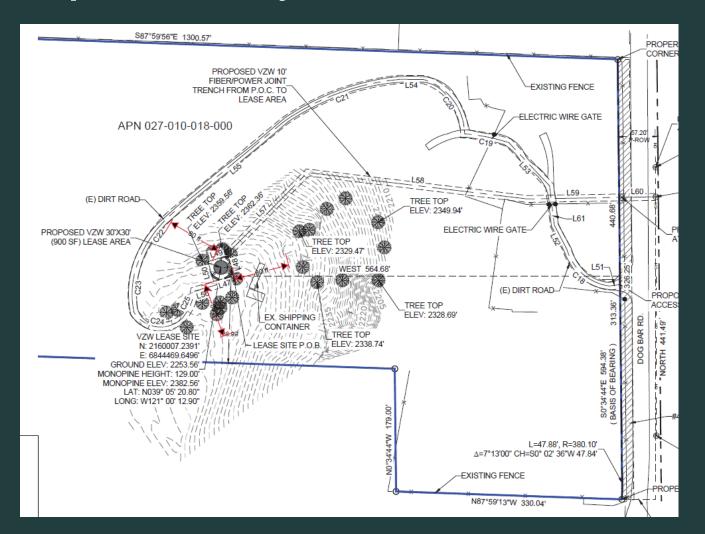
I. Adopt the attached Resolution to deny the appeal and to uphold the decision of the Zoning Administrator to adopt the proposed Mitigated Negative Declaration (EIS23-0010) and approve Conditional Use Permit application (CUP23-0015) proposing the construction and operation of a new 129-foot tall monopine wireless communication tower within a 900 square foot fenced lease area located at 20896 Dog Bar Road, Grass Valley, in southeast Nevada County.



Extra Slides



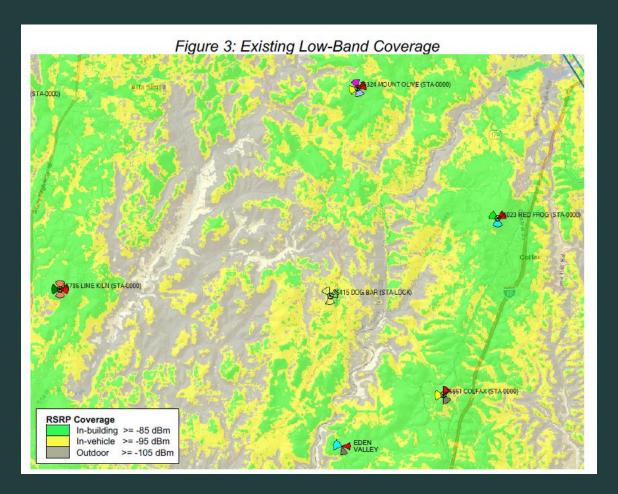
Impacts from Adjustment

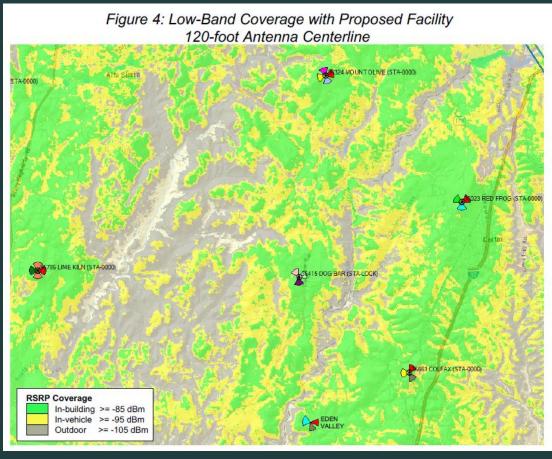






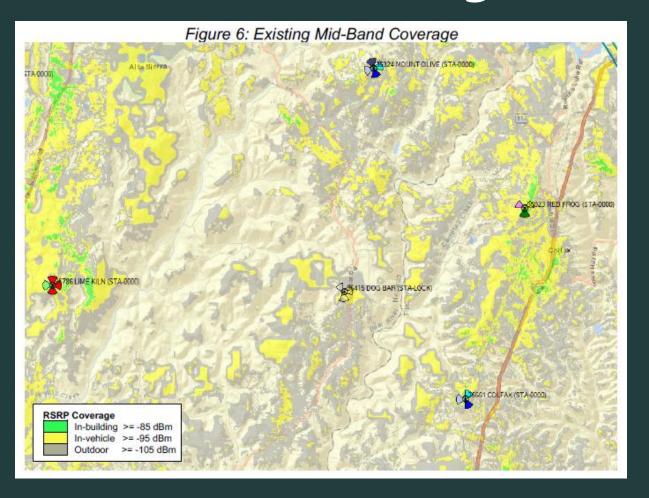
Low-Band Coverage: Before/After

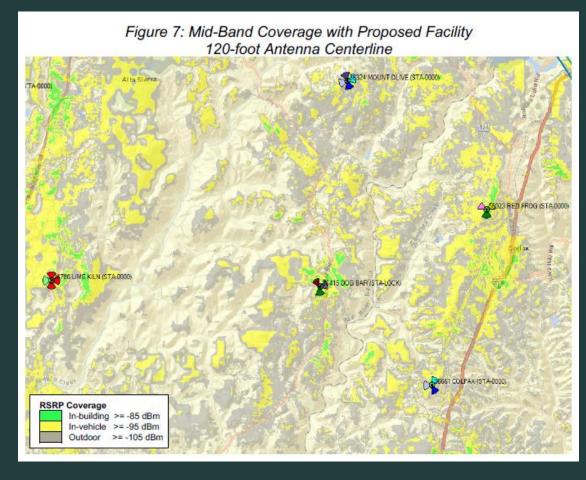






Mid-Band Coverage: Before/After

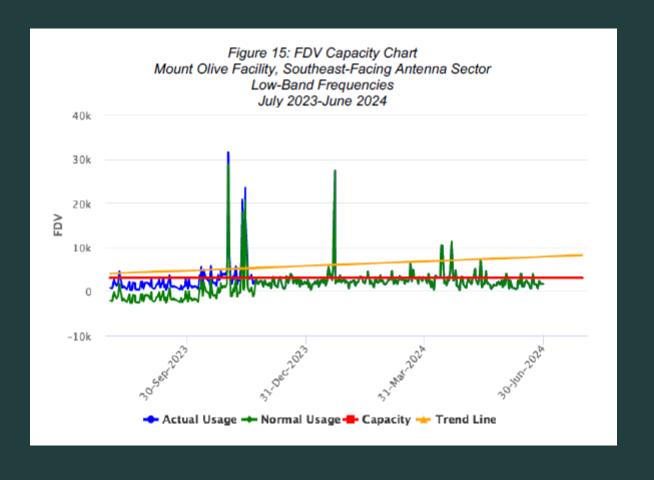






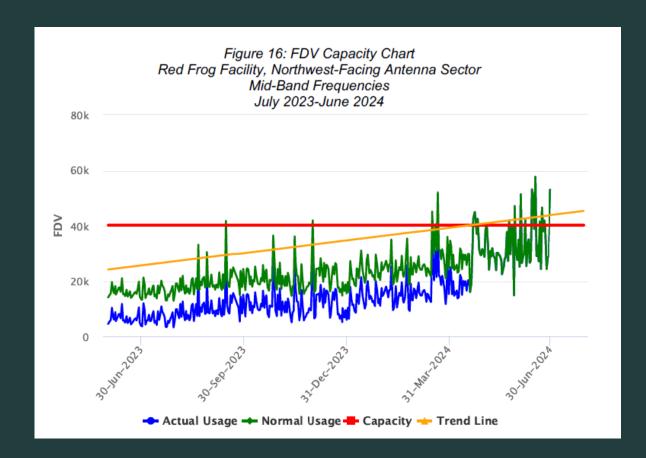
Capacity

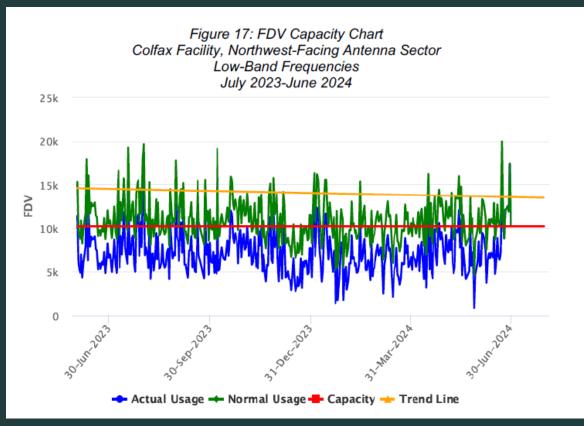
By comparing the trend line of average usage (orange line) with the maximum capacity (red line), Figure 15 demonstrates that the Mount Olive facility southeast-facing antenna sector reached capacity exhaustion in the low-band frequencies over one year ago.





The other surrounding towers of Colfax and Red Frog are also above capacity.

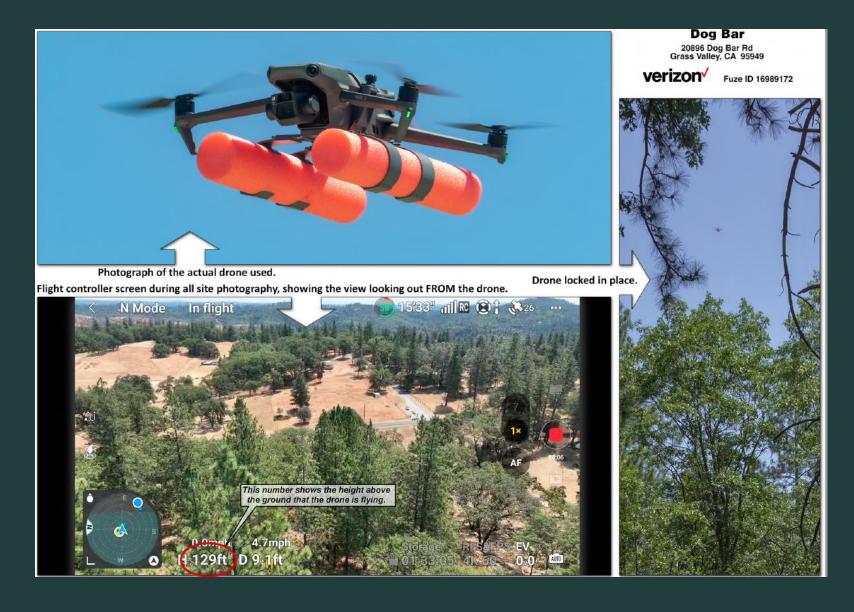




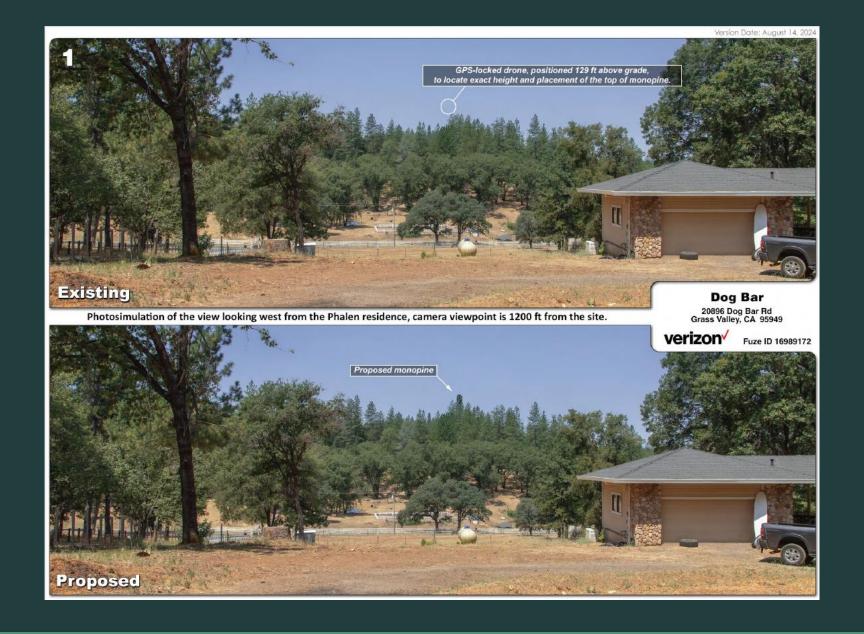


Aesthetics

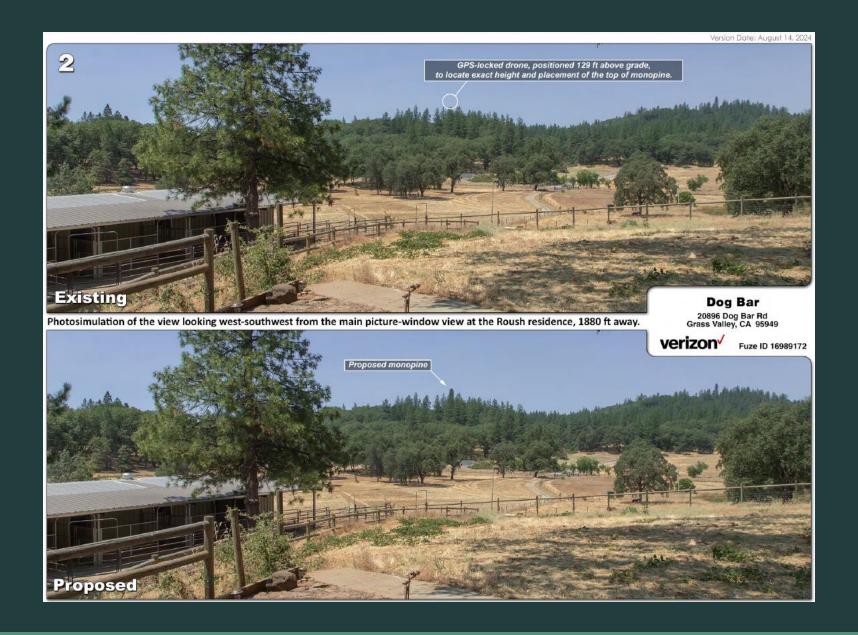
To demonstrate the height of the tower, a GPS-locked drone was set to hover at exactly 129 feet in the location of the proposed monopine. The photo simulations show the top of the monopine at the same height the drone is hovering.



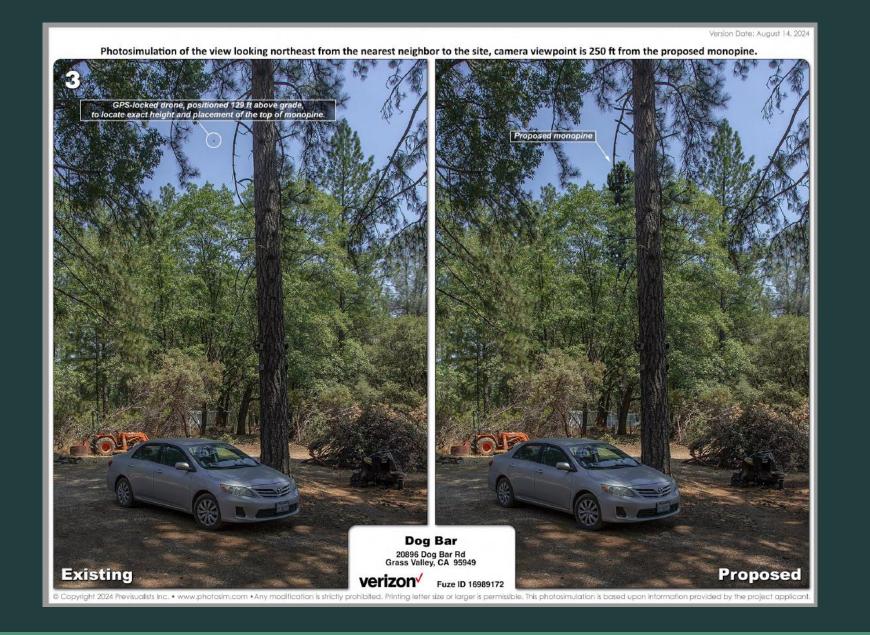








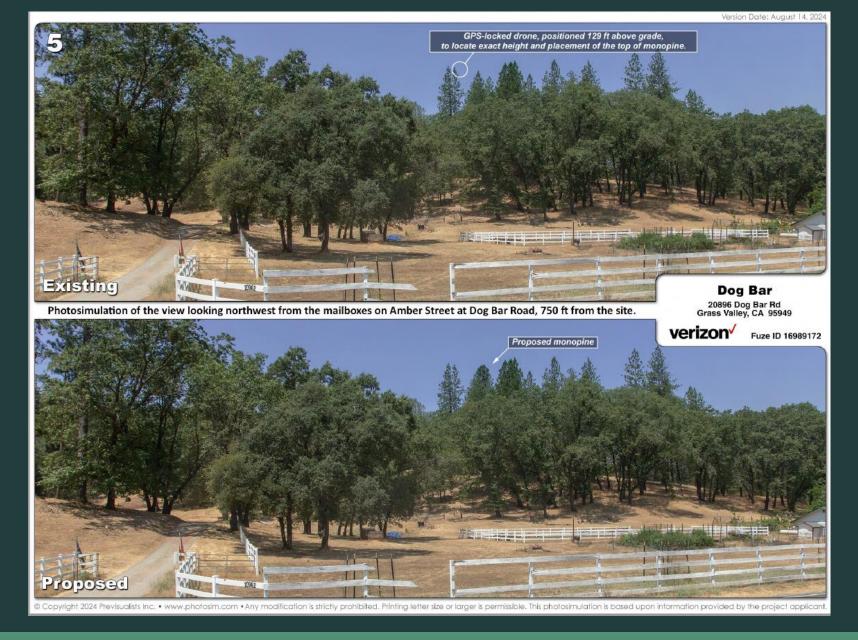




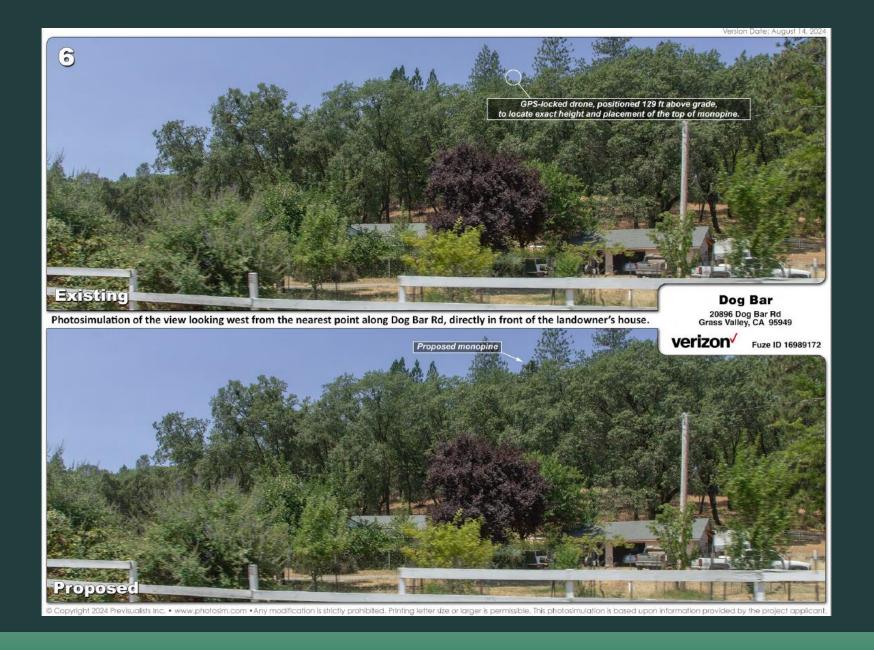








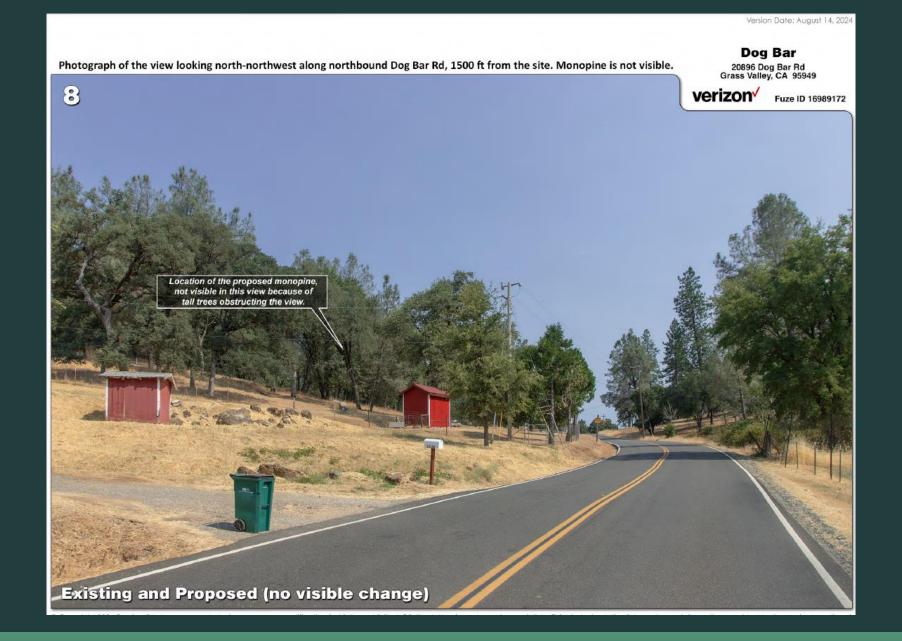
















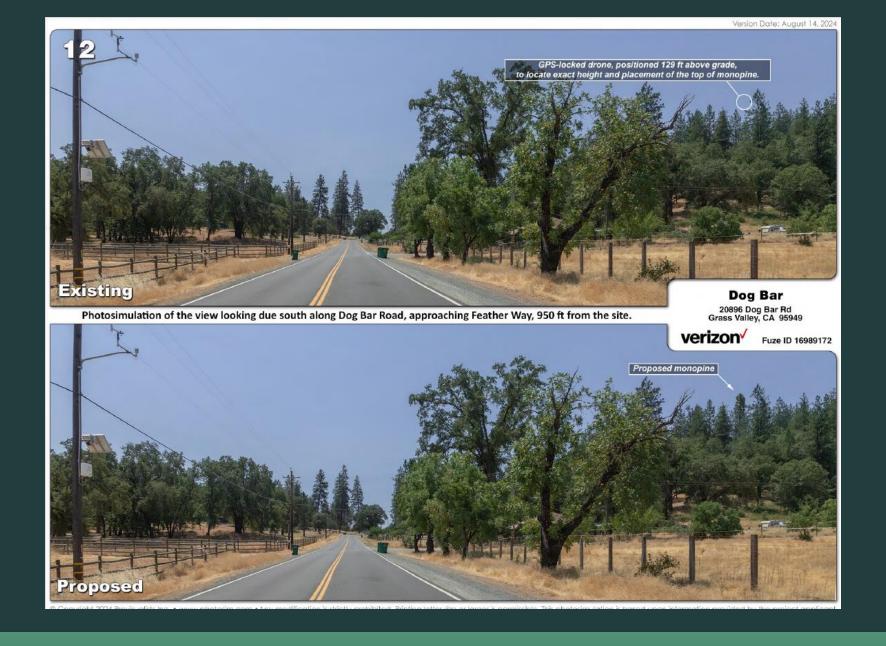




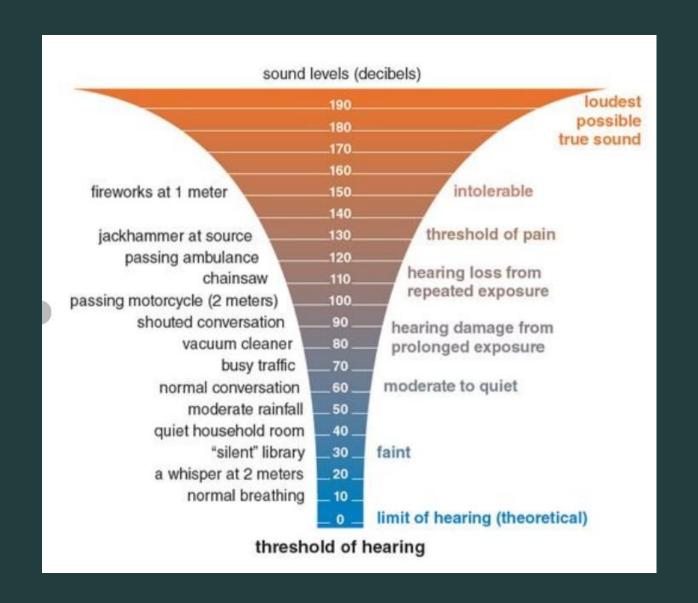














4.3 Statement of Compliance

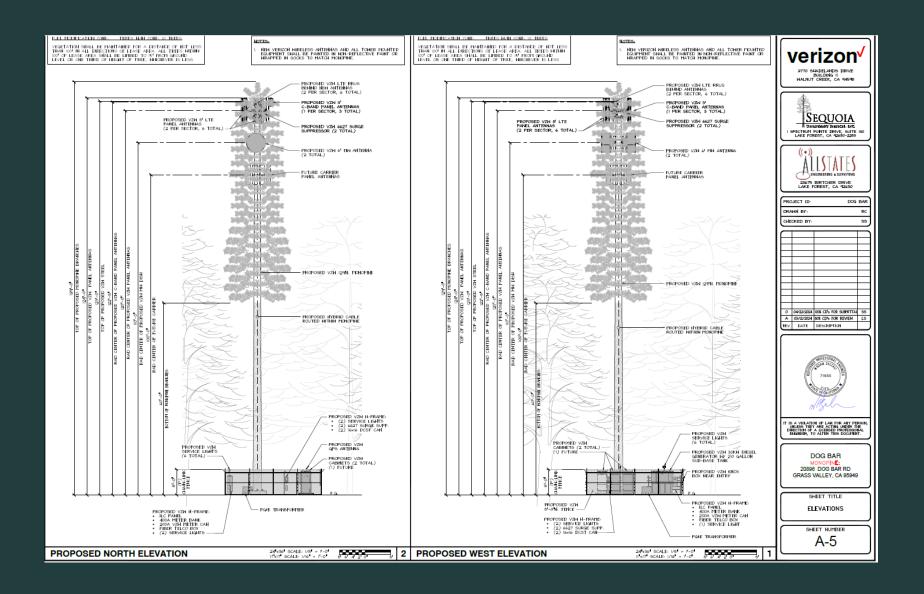
Based on the above results, analysis and recommendation(s), it is the undersigned's professional opinion that Verizon's site is compliant with the FCC's RF Safety Guidelines.

4.4 Engineer Certification

This report has been prepared by or under the direction of the following Registered Professional Engineer: Darang Tech, holding California registration number 16000. I have reviewed this report and believe it to be both true and accurate to the best of my knowledge.









Agency/Public Comments

- A member of the public expressed concerns about the perceived health risks of cellular towers, aesthetic impacts, and noise from the standby generator.
- Northern Sierra AQMD asked that the contact information in a Condition be changed and asked for a condition stating that disturbance must still adhere to NSAQMD rule #226. Therefore, Condition D.3 is proposed to require a note on future building plans.
- The Central Valley Regional Water Quality Control Board provided a generic letter that includes comments that are not applicable to the project.



Environmental Review

- The Planning Department prepared a draft Initial Study and a proposed Mitigated Negative Declaration (IS/MND) for the proposed project (Attachment 2). The Initial Study was available for a public review period of 31-days (spanning May 7, 2024 to June 6, 2024 at 5:00 p.m.).
- Based on the technical information submitted with this application, review of pertinent policy and regulatory documents, and consultation with appropriate local, state, and federal agencies, all of the potential impacts that were identified have been mitigated below levels of significance.



