Verizon *Wireless*

Salmon Falls Road
Wireless facility

1521 Lake Vista Ln. El Dorado Hills, CA 95762

RF Objective

Network RF Engineering.

verizonwireless

Verizon Wireless
255 Parkshore Drive.
Folsom, Ca. 95630

November 11, 2014

El Dorado County Planning Department
2850 Fairlane Court
Placerville, Ca. 95667
Attn: Lillian Macleod

RE: Verizon Wireless proposed "Salmon Falls Road" tower
1521 Lake Vista Lane, El Dorado Hills, Ca. 95762

Dear Ms. Macleod:

This letter is in reference to the Verizon Wireless application submitted to El Dorado County for a Use Permit to place a new wireless facility at 1521 Lake Vista Lane off of Salmon Falls Road in the northern part of El Dorado Hills. As the Radio Frequency Engineer for this part of the Verizon service area I am familiar with the Network requirements as well as the various options which have been considered during the course of over three years of work to locate a site to improve coverage along the Salmon Falls Road corridor.

Verizon selected the location of the proposed mono-pine at 1521 Vista Lane for several reasons. The primary one is its specific location which provides a "line of sight" vantage point over the desired coverage area along Salmon Falls Road. The two nearest Verizon sites to this location are at the intersection of Francisco Boulevard and Green Valley Road, and near Highway 49 in Pilot Hill. The primary intent of this site is to fill in the existing coverage gap on the road between these locations, as well as to improve service for residents in the area as well as boaters on the South Fork branch of Folsom Lake. The computer-generated coverage models which I generated and Alan Heine has provided indicate that the Vista Lane location would provide better coverage along a key stretch of Salmon Falls Road west of the site location than would the existing American Tower Corporation tower which has been considered.

The other reason that the new tower proposed by Verizon is preferred over the ATC collocation possibility has to do with the viability of the site to meet current and future Network needs. Three years ago when we began searching for a site in this area, the ATC tower was completely occupied with other antennas, and was at that time structurally overloaded. It is my understanding that Nextel has recently abandoned that tower and there now may be limited space available for new antennas. While this may be true, the fact remains that the available space and structural capacity are still quite limited, and the ATC tower is highly unlikely to be sufficient to meet Verizon's antenna and equipment requirements. Wireless companies such as Verizon are no longer simply "mobile phone companies"; rather our main business these days is as a wireless Internet Service Provider, and due to this market shift, the antenna and equipment space requirements are much greater than if we were providing only simple phone service. The existing ATC tower is insufficient to meet the equipment requirements of today's Network, and certainly has no room for expansion to grow with our business.

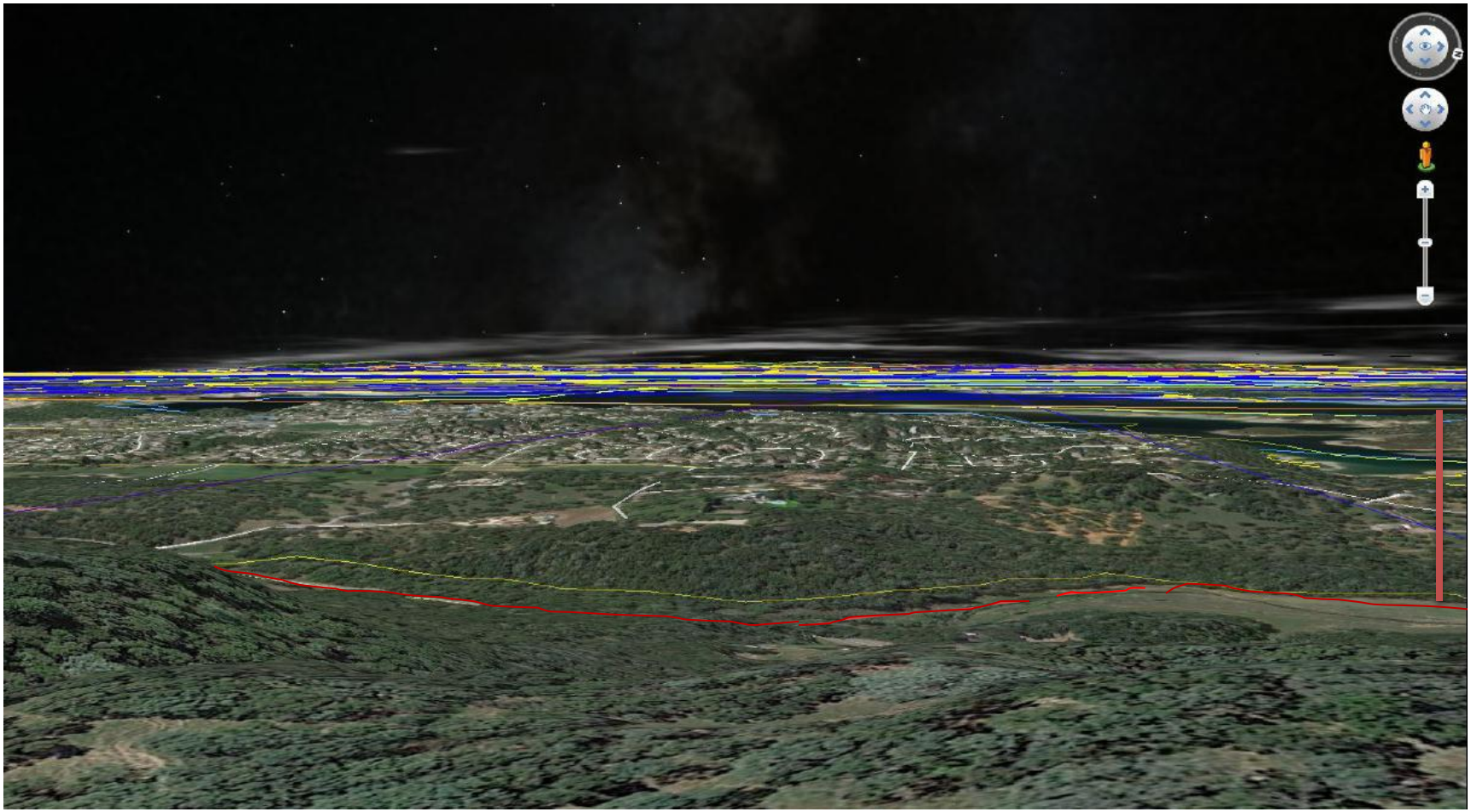
Verizon has already invested a great deal of time, effort, and planning into the proposed location, not to mention expense. The proposed new tower is the best option to improve the quality of our Network for all of the Verizon customers in El Dorado County, and I thank you for your consideration of this much-needed new site. Please feel free to contact me with any questions you may have regarding the proposed facility.

Thank you.

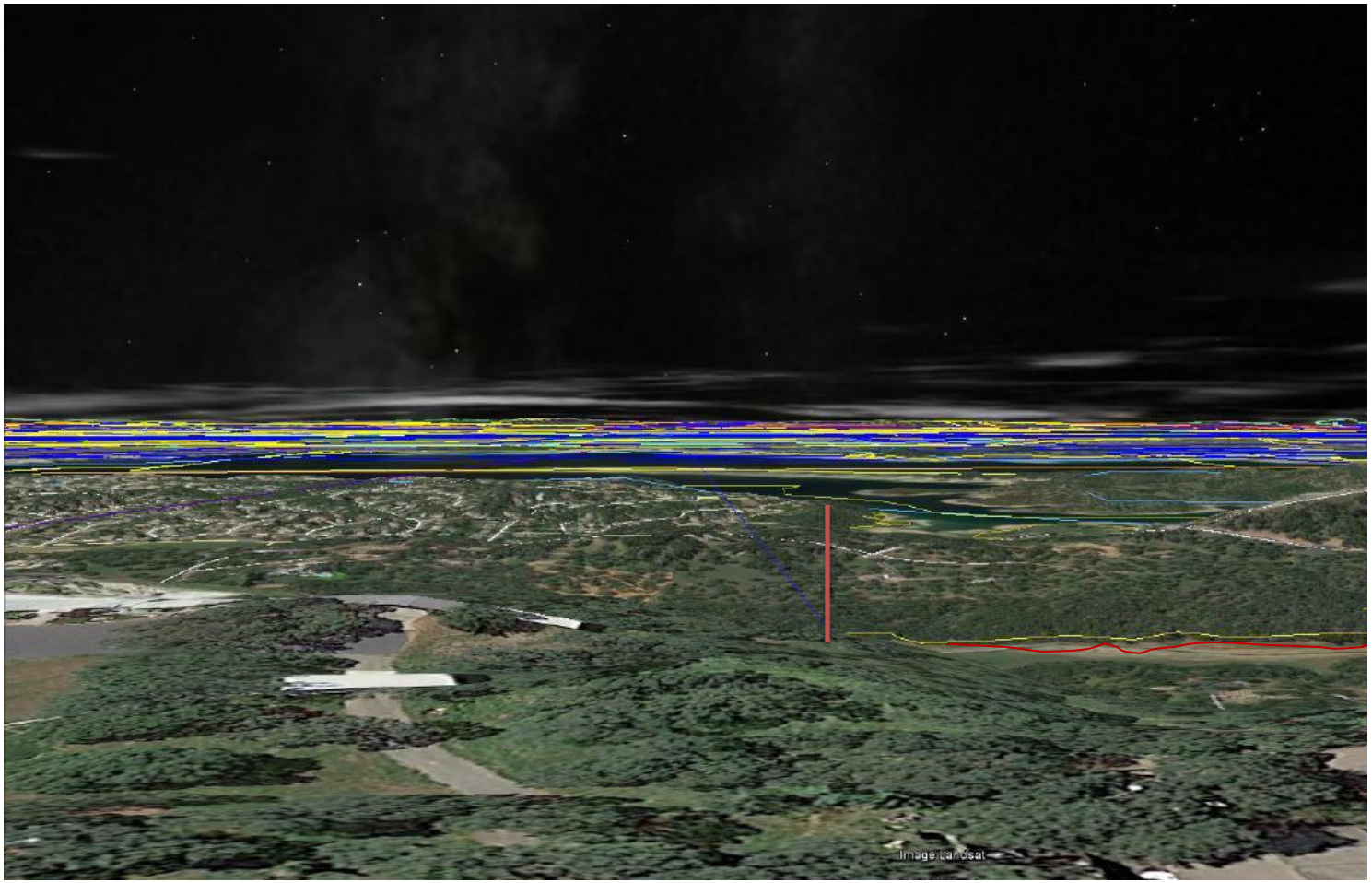
Doug Picard

Doug Picard
Verizon Wireless
RF Engineer
NC/Nv Region
916 357-2515

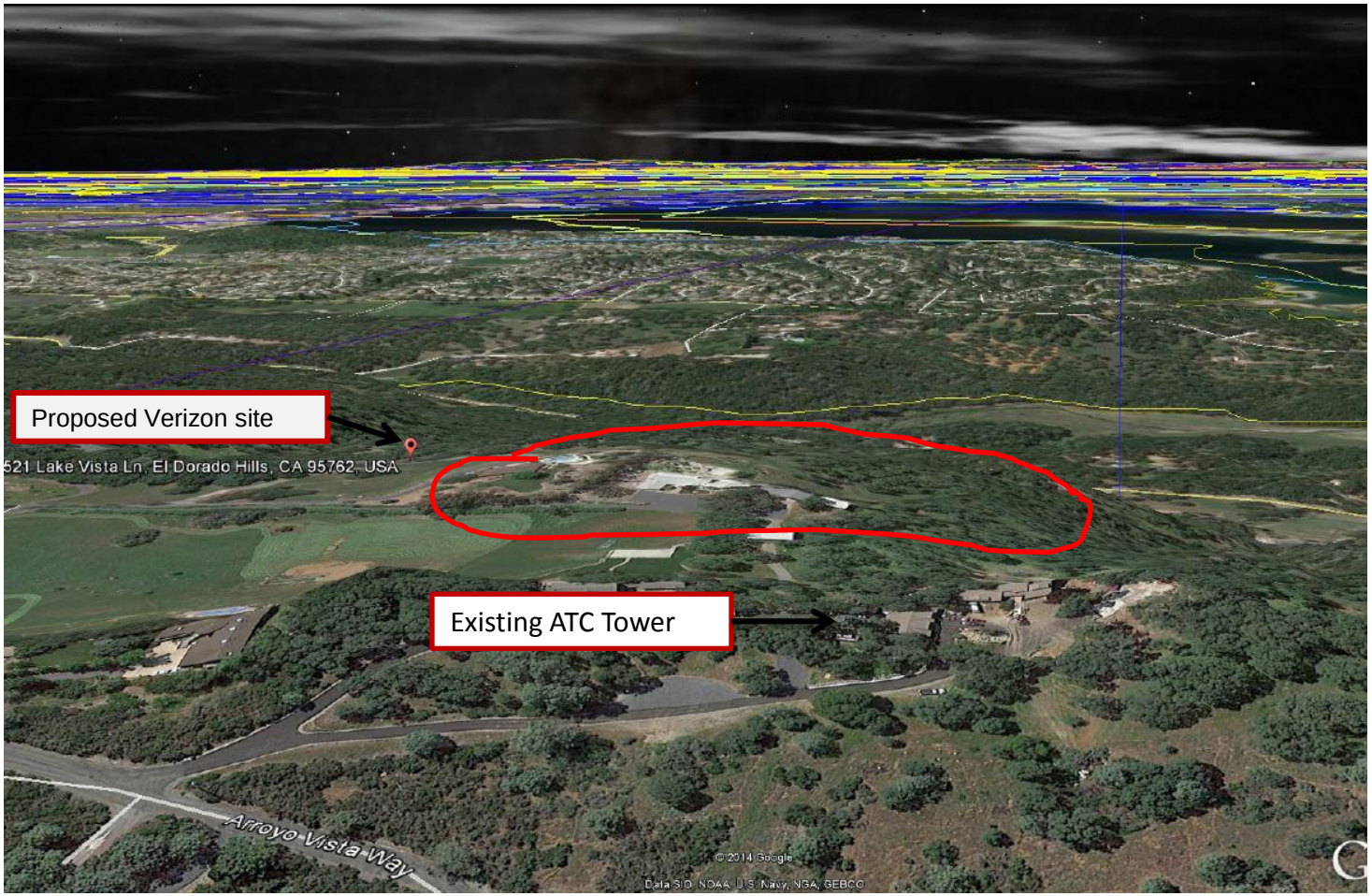
View shed from the Verizon proposed site at the 81’ top of Antennas
Red line below indicates Salmon falls road. Note vertical convergent line at right for reference



Looking westerly from 1668 Arroyo Vista ATC tower at 60’ top of Antenna. Note Red line coverage and converging point as reference.



The knoll that weakens signal from overhead indicted in red. Note; Verizon site in the distance in front of westerly knoll

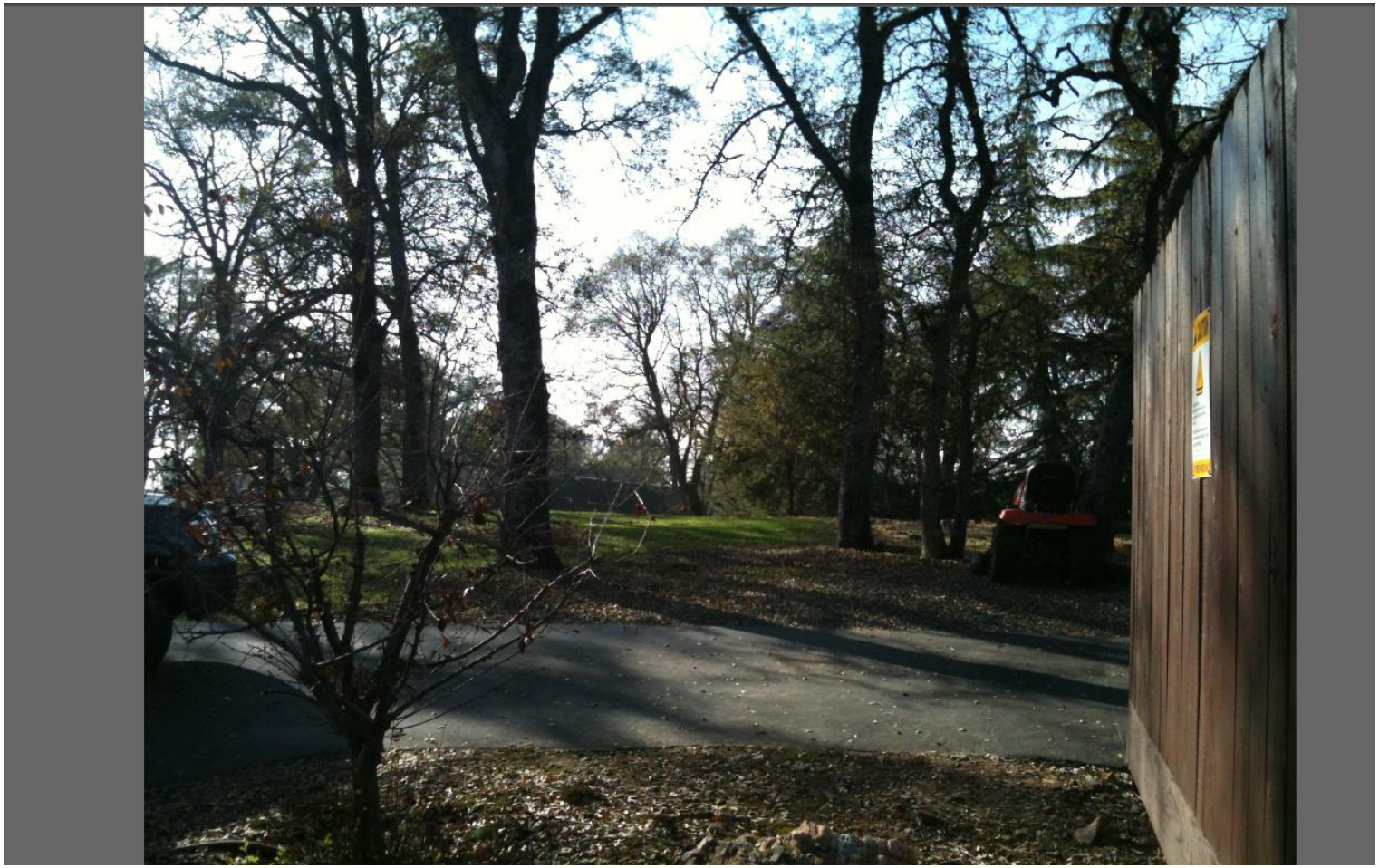


Existing ATC site

Space available at ATC site is inadequate for our proposed 12’- 6” x 16’-10” shelter and 5’ x 10’ Generator pad

ATC Tower note cavity of tower will not support coax and will need to run outside of tower.

Note; trees surrounding the ATC tower are nearly the existing tower height and are within 40’ of the tower creating a great deal of localized loss.



Considerations to visual impact

What Impact?

In addition to the lack of any real impact from viewable locations, Note that all homes along Arroyo Vista Way have trees in their own yards currently in the direct view shed of the proposed mono-pine.

Another property along Arroyo Vista Way with trees that block the view to the tower.

All the homes circled will not have a direct view to the monopine and the two with arrows may have a angled view from one or two windows if searching for the tree pole.

Summary

- Verizon followed a proper due diligence process to establish their proposed facility. Our current candidate was selected after several other properties were considered and ruled out over a 3 year period including the existing ATC tower.
- Verizon's site location is at substantial distances from any neighboring residence.
- The proposed site is not in a "drive to" view shed from any arterial roadway and will have little to no impact.
- Verizon's proposed site is well camouflaged and simulations prove it will blend well with densely tree' d hillside.
- Verizon's proposed site will provide a much needed community infrastructure and provide a dependable emergency communication system during a catastrophic event or simple power loss.