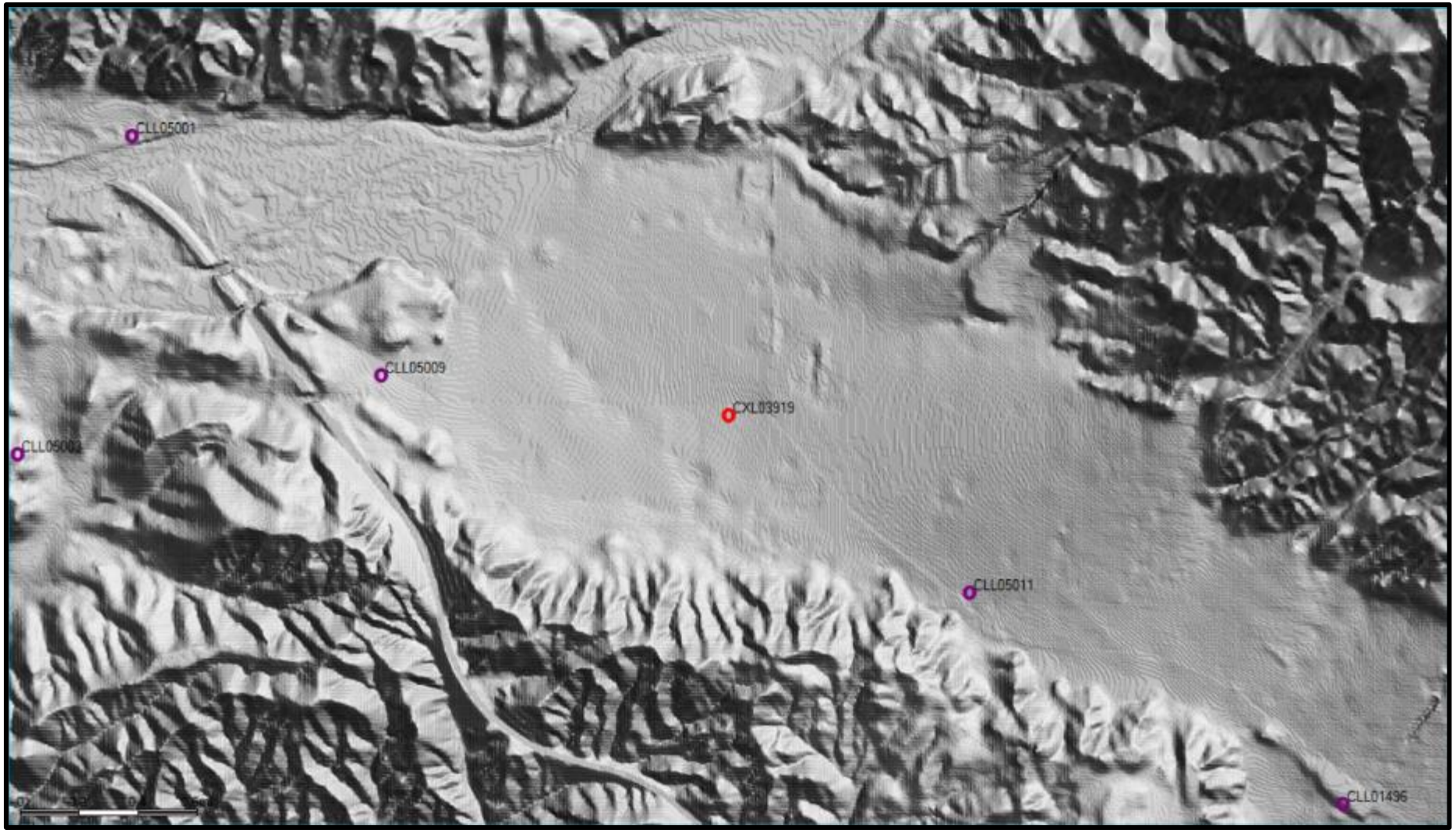
# Site Justification Coverage Maps

**Market Name** : Southern California Market
**Site ID** : CXL03919
**Site Address** : 7902 FOOTHILL BLVD., SUNLAND, CA 91040
**ATOLL Completion Date**:  OCT 08, 2024

# Assumptions

- Propagation of the Site Coverage Plots are based on our current Atoll RF Design Tool that shows the preferred design of AT&T 4G-LTE Network Coverage.
- The propagation referenced in this package is based on Existing and Proposed 4G-LTE Coverage of AT&T users in buildings, in vehicles, and outdoors. The threshold for reliable in-building coverage is based on a signal strength necessary to reliably and consistently make voice calls and use applications indoors, taking into consideration the built and natural environment. The threshold for reliable in-vehicle coverage is based on known signal attenuation from an outdoor signal to the inside of a vehicle. The threshold for reliable outdoor coverage is based on a signal strength necessary to reliably and consistently make voice calls and use applications outdoors taking into consideration the built and natural environment.
- For your reference, the scale shown ranges from Reliable to Unreliable Coverage for AT&T users in buildings, in vehicles, and outdoors.
- The Coverage Plots shown in the following slides are based on the following criteria:
  - Existing 4G-LTE Coverage Before the Proposed Site: Assuming all other existing neighboring sites are On-Air and the Proposed Site is Off-Air, the propagation is displayed with the legends provided.
  - Planned 4G-LTE Coverage With the Proposed Site: Assuming all other existing neighboring sites along with the Proposed Site are On-Air, the propagation is displayed with the legends provided.
  - Standalone 4G-LTE Coverage of the Proposed Site: Assuming all other existing neighboring sites are Off-Air and only the Proposed Site is On-Air, the propagation is displayed with the legends provided.

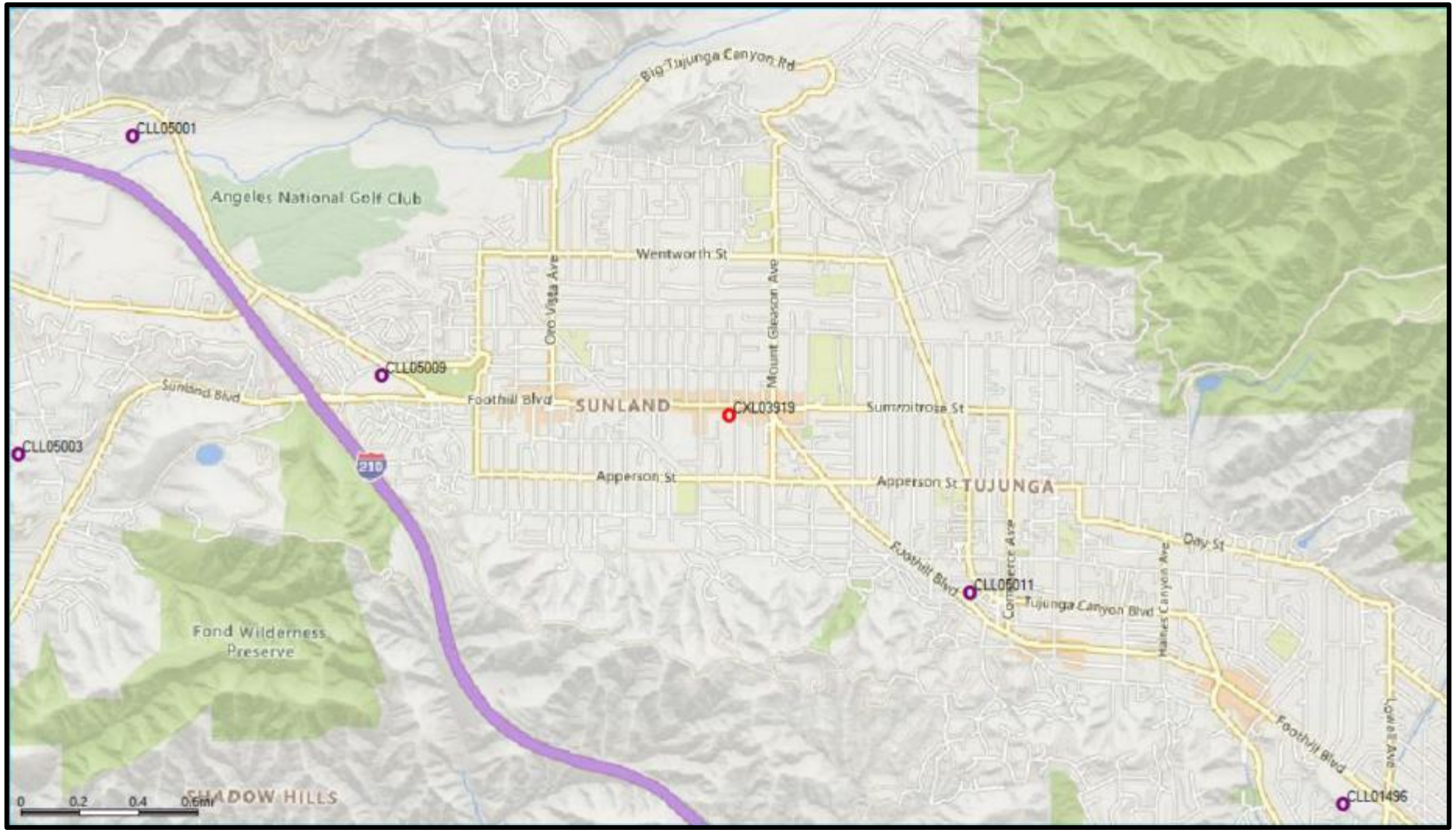
# Proposed Site CXL03919 (Terrain Map)




Proposed Macro Site

Existing Macro Sites

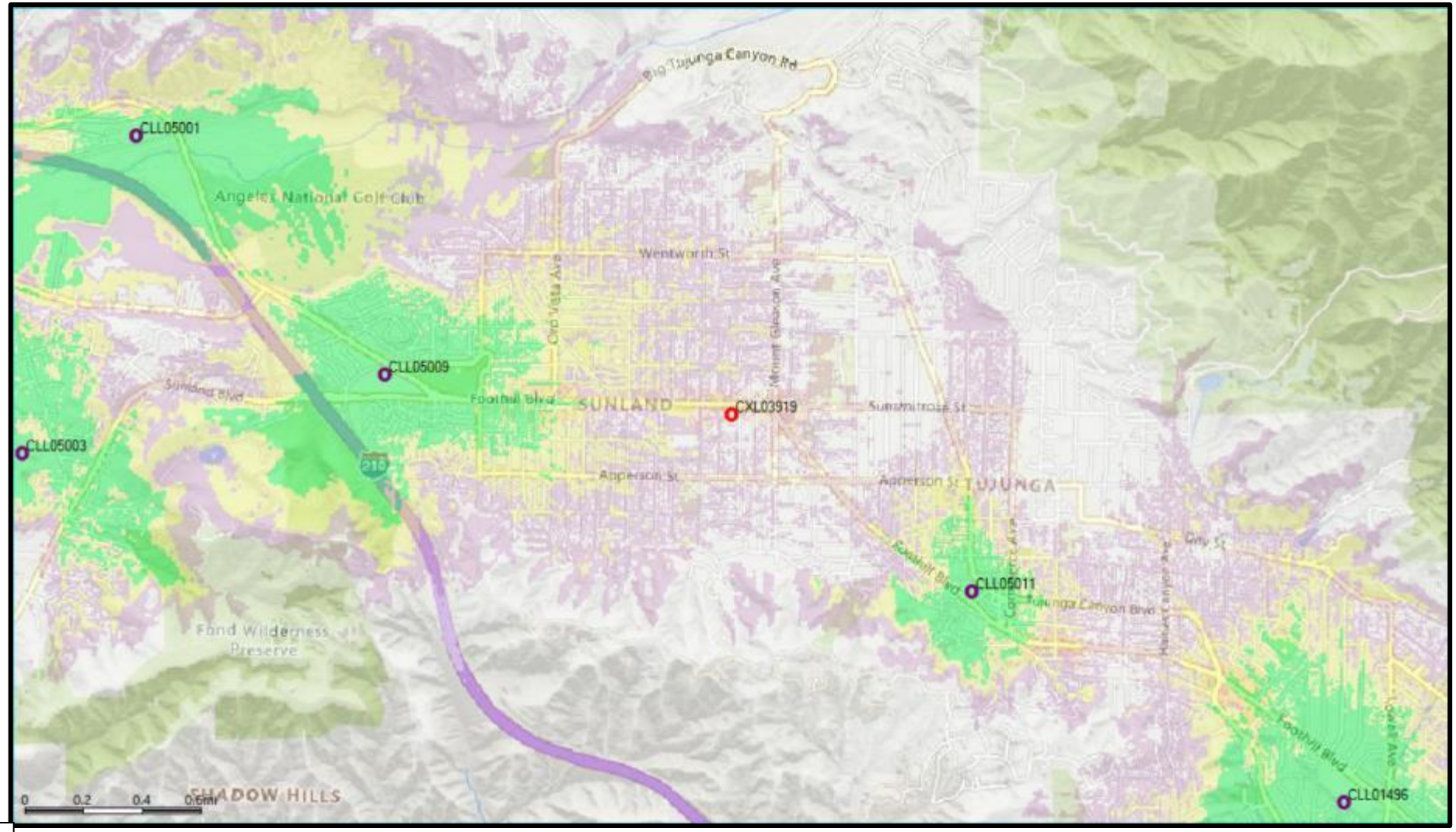
# Proposed Site CXL03919 (Road Map)



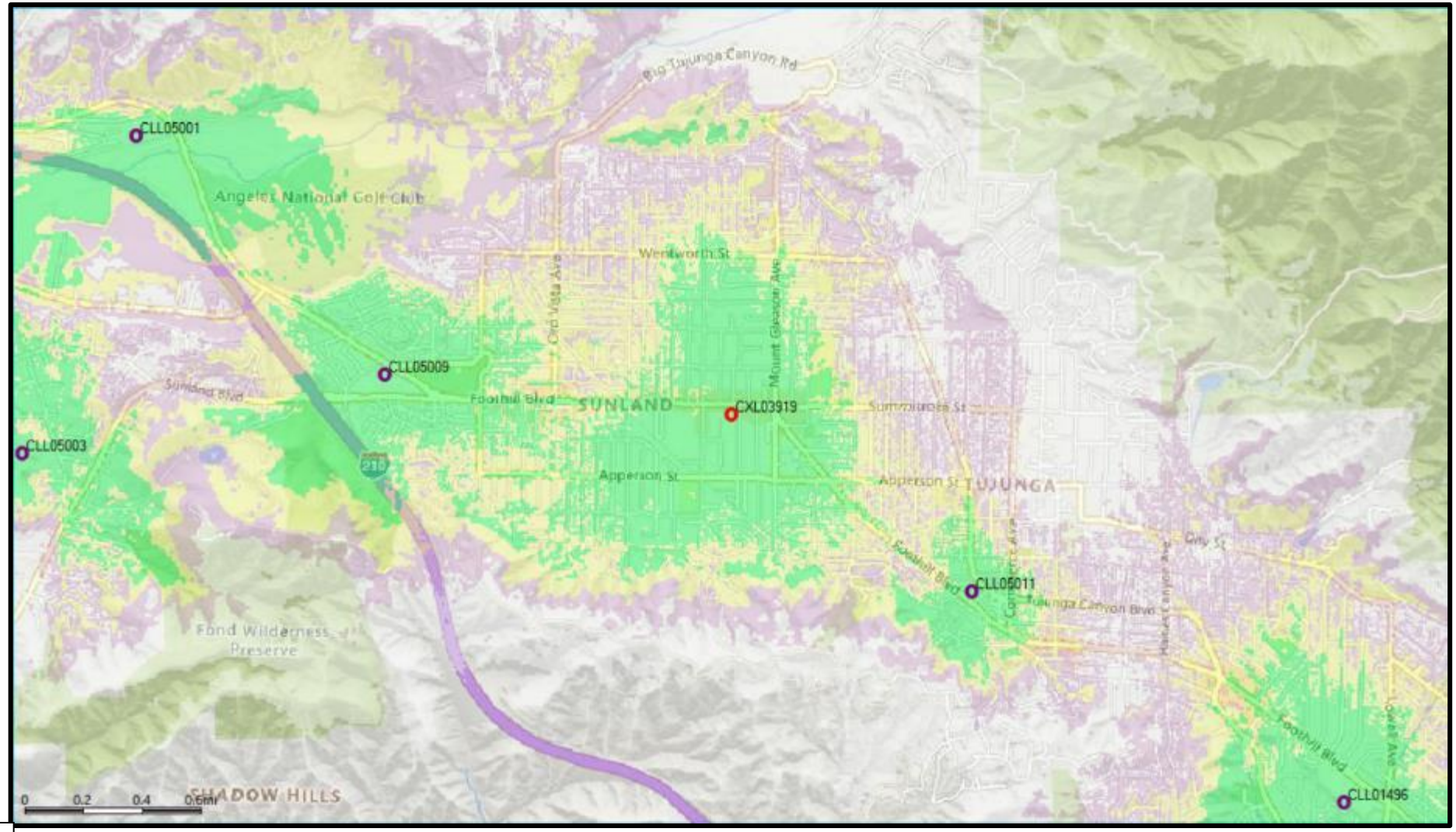

Proposed Macro Site

Existing Macro Sites

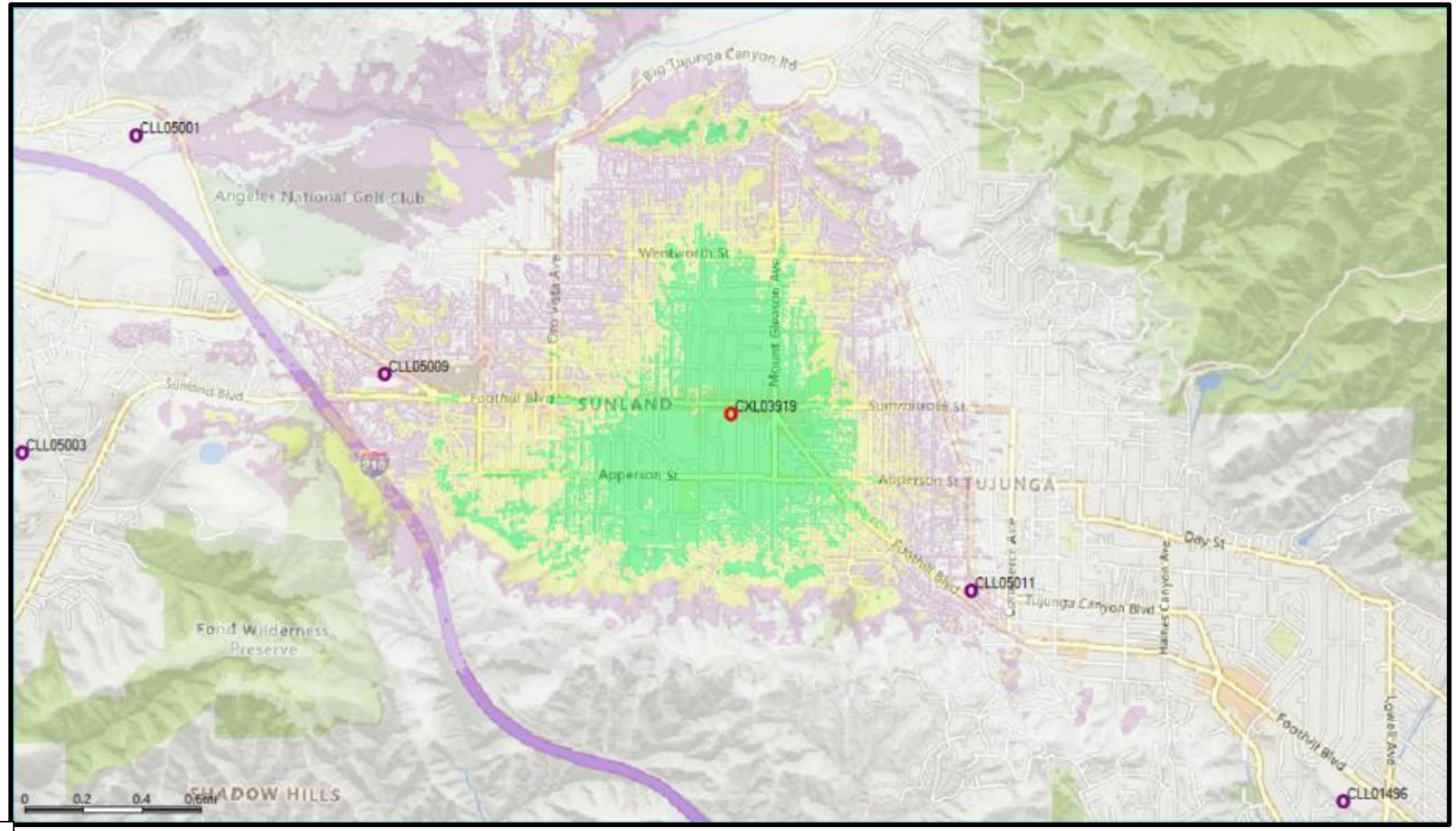
# Existing 4G-LTE Coverage Before Proposed Site CXL03919



# Planned 4G-LTE Coverage With Proposed Site CXL03919 On Air



# Standalone 4G-LTE Coverage Of Proposed Site CXL03919




Proposed Macro Site

Existing Macro Sites

## Coverage levels:

- Reliable indoor, in-vehicle and outdoor
- Unreliable indoor / Reliable in-vehicle and outdoor
- Unreliable indoor and in-vehicle / Reliable outdoor
- Unreliable indoor, in-vehicle and outdoor

# Coverage Legend

**Reliable indoor, in-vehicle and outdoor coverage:** In general, the areas shown in green should have the most coverage and the strongest signal strength and be sufficient for reliable in-building service and connection to the AT&T wireless network. However, in-building coverage can and will be adversely affected by the thickness/construction type of walls, and the user's location in the building (i.e., in the basement, in the middle of the building with multiple walls, etc.)

**Unreliable indoor / Reliable in-vehicle and outdoor:** The areas shown in yellow should have sufficient coverage and signal strength for reliable device usage in vehicles and outdoors but will not have adequate coverage or signal strength for reliable in-building usage.

**Unreliable indoor and in-vehicle / Reliable outdoor:** The areas shown in purple should have sufficient coverage and signal strength for reliable device usage outdoors only and will not have adequate coverage or signal strength for reliable in-building or in-vehicle usage.


AT&T