

# LTE Justification Plots

**Market Name: Los Angeles**

**Site ID: CLL01609 (LAC104)**

**Site Name: Bakersfield**

**ATOLL Plots Completion Date: 10/10/2011**



## Assumptions

- Propagation of the site plots are based on our current Atoll (Design tool) project tool that shows the preferred design of the AT&T **4G-LTE** network coverage.
- The propagation referenced in this package is based on proposed LTE coverage of AT&T users in the surrounding buildings, in vehicles and at street level . For your reference, the scale shown ranges from good to poor coverage with gradual changes in coverage showing best coverage to marginal and finally poor signal levels.
- The plots shown are based on the following criteria:
  - **Existing:** Since LTE network modifications are not yet **On-Air**. The first slide is a snap shot of the area showing the existing site without LTE coverage in the AT&T network.
  - **The Planned LTE Coverage with the Referenced Site:** Assuming all the planned neighboring sites of the target site are approved by the jurisdiction and the referenced site is also approved and **On-Air**, the propagation is displayed with the planned legends provided.
  - **Without Target site:** Assuming all the planned neighboring sites are approved by the jurisdiction and **On-Air** and the referenced site is **Off-Air**, the propagation is displayed with the legends provided.
  - **Clutter Classes:** Morphology of the area is added at the end of the document with the legend displaying different colors for the different topography of the area.

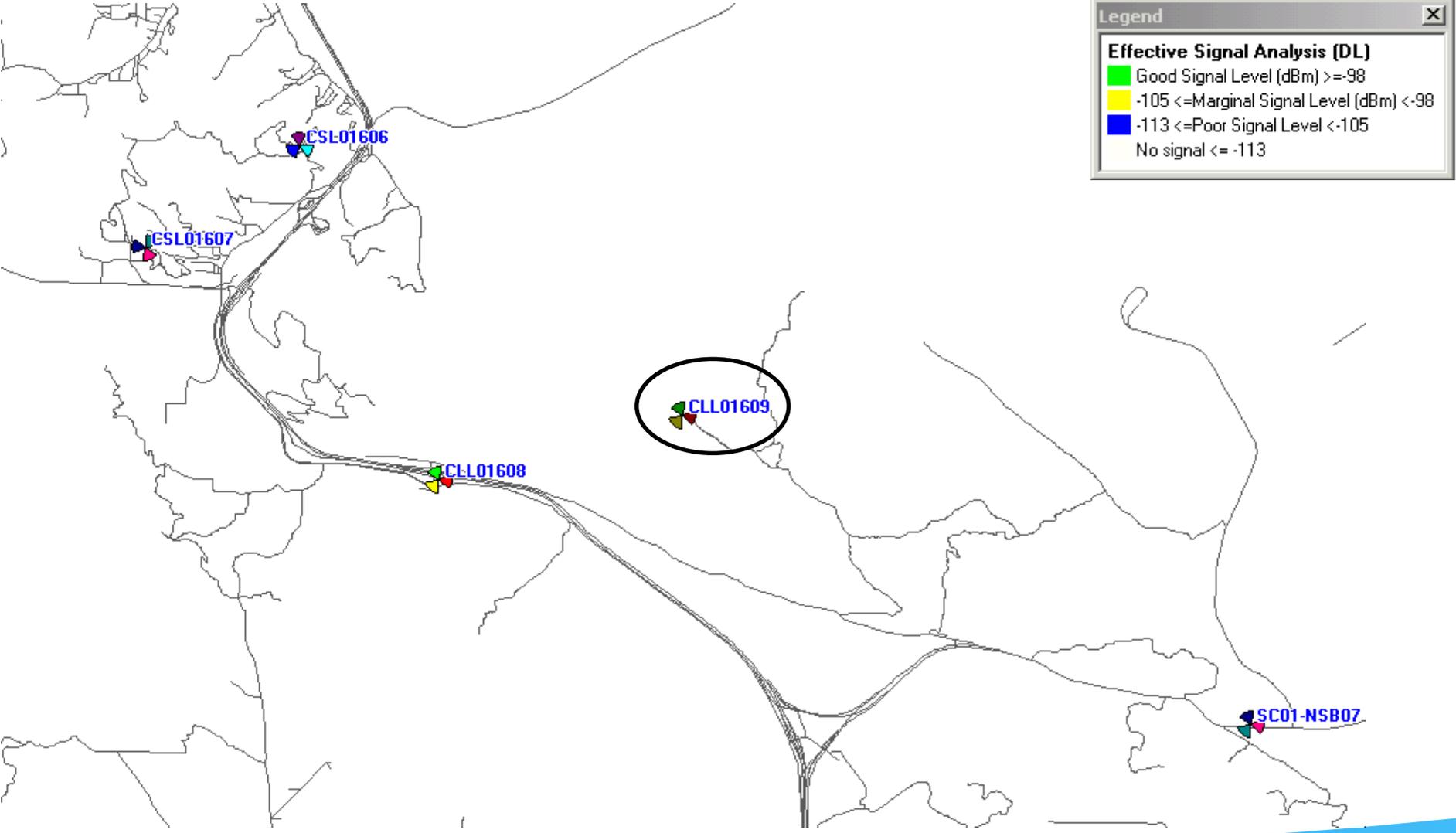
# PROPAGATION PLOTS

# LTE Coverage - Existing

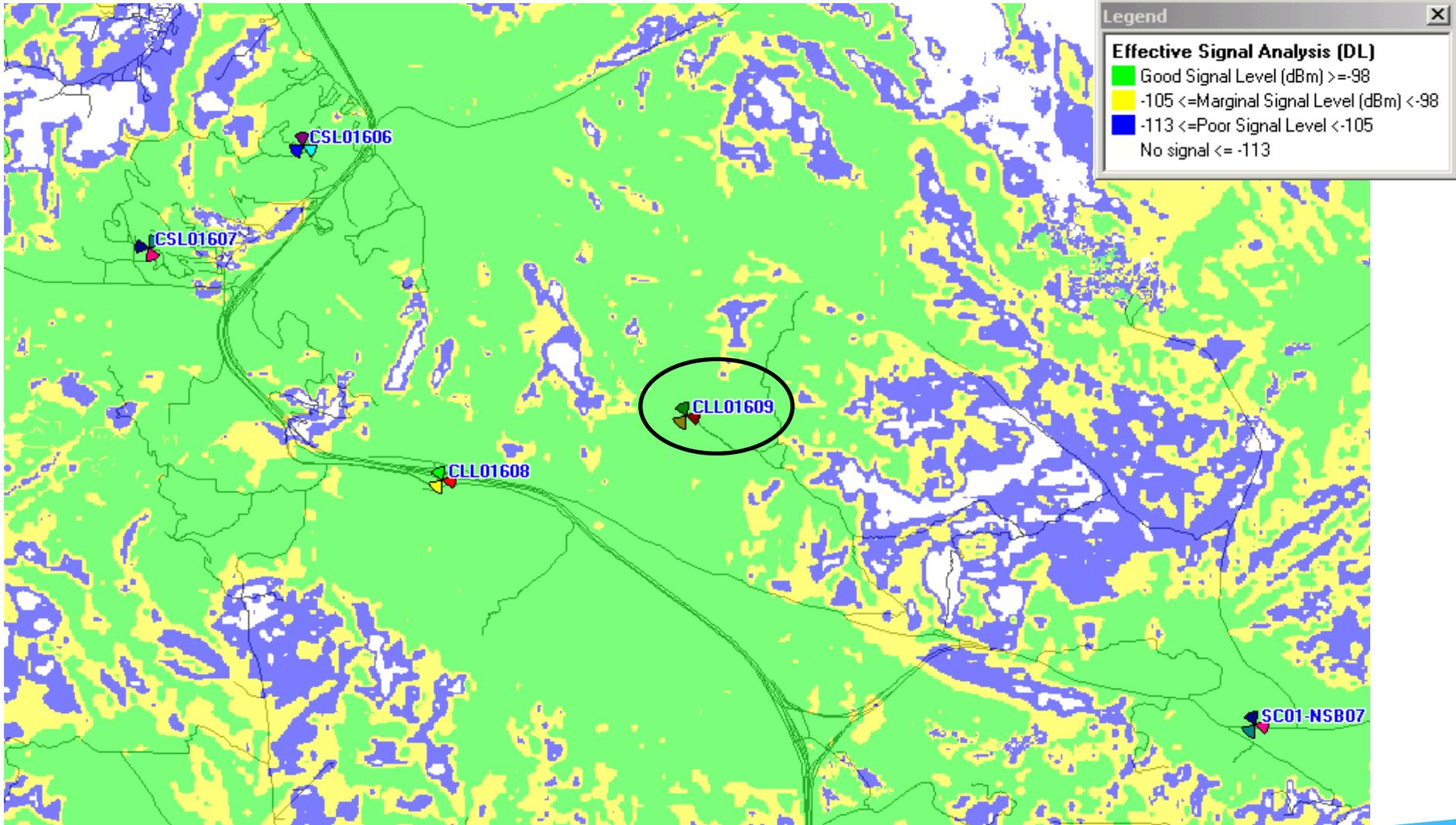
Legend

**Effective Signal Analysis (DL)**

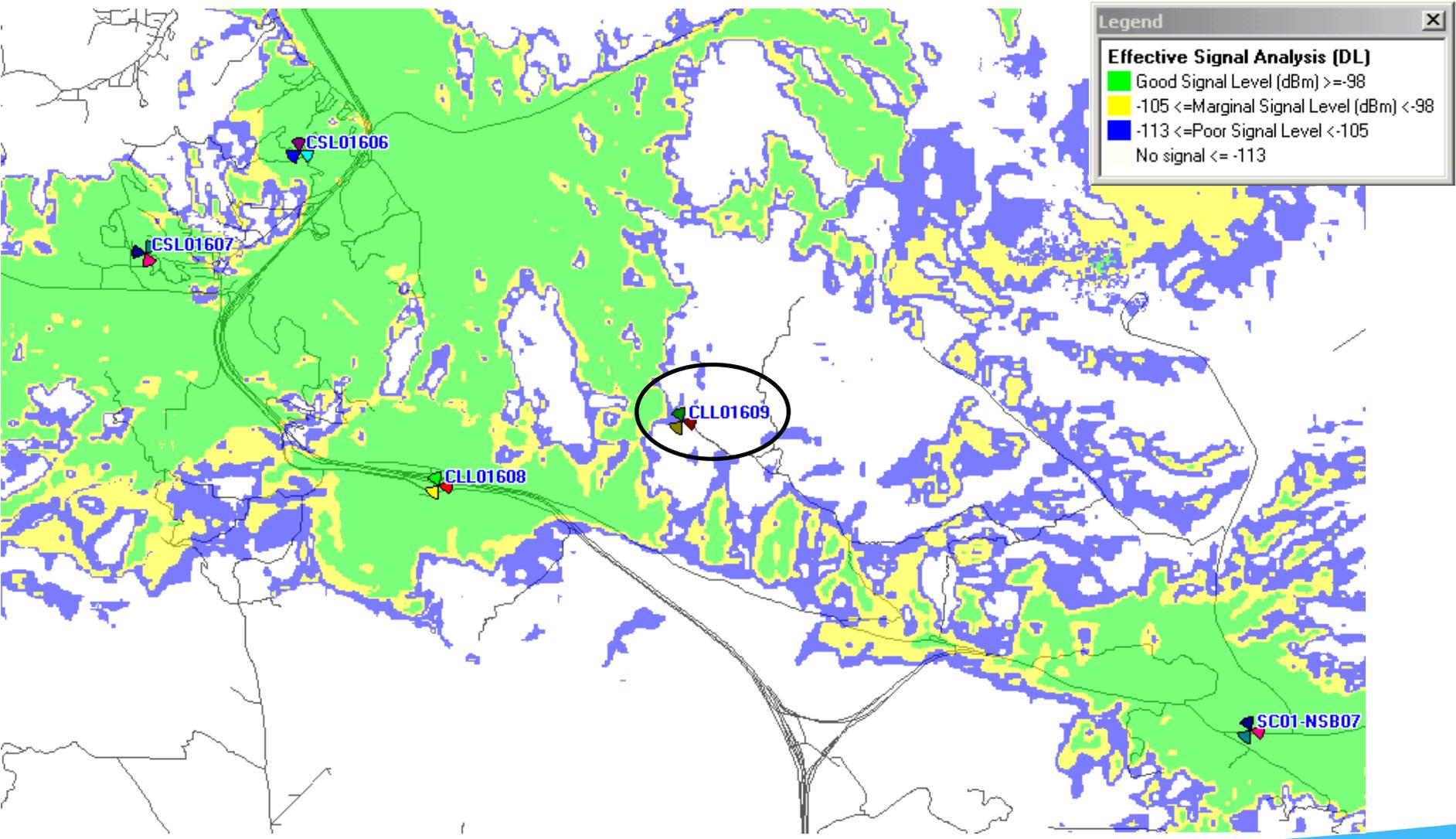
- Good Signal Level (dBm)  $\geq -98$
- $-105 \leq$  Marginal Signal Level (dBm)  $< -98$
- $-113 \leq$  Poor Signal Level  $< -105$
- No signal  $\leq -113$



LTE Coverage – Planned LTE coverage with the referenced site and other proposed sites. RSRP Plots with CLL01609 (dBm)



# LTE Coverage – Planned LTE Coverage without referenced site RSRP Plots without CLL01609 (dBm)



# Clutter Classes

