

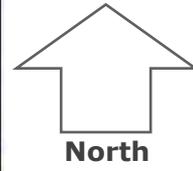
Site 00987 (NMALU0987) Hermosa

- Coverage maps
- March 23, 2016

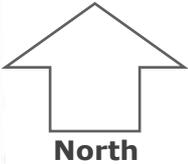
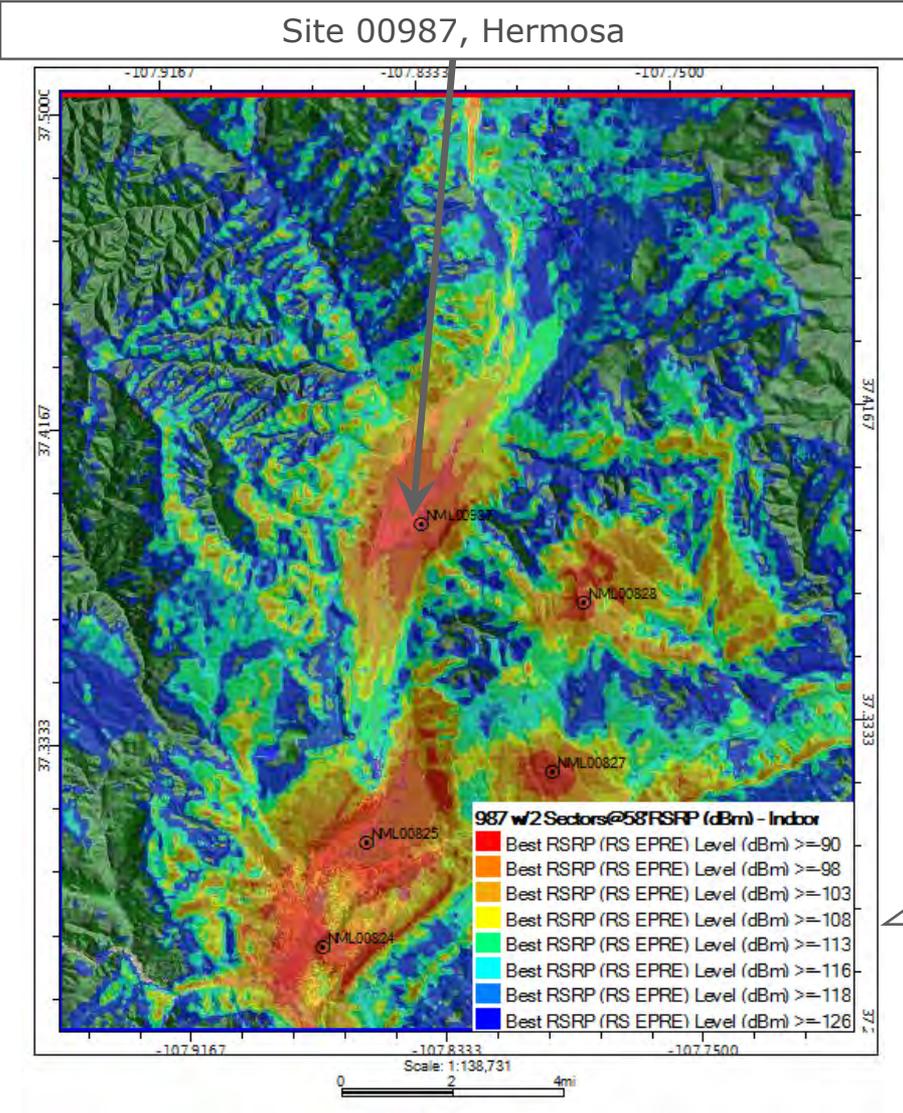


Terrain Surrounding Site 00987

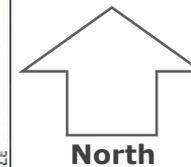
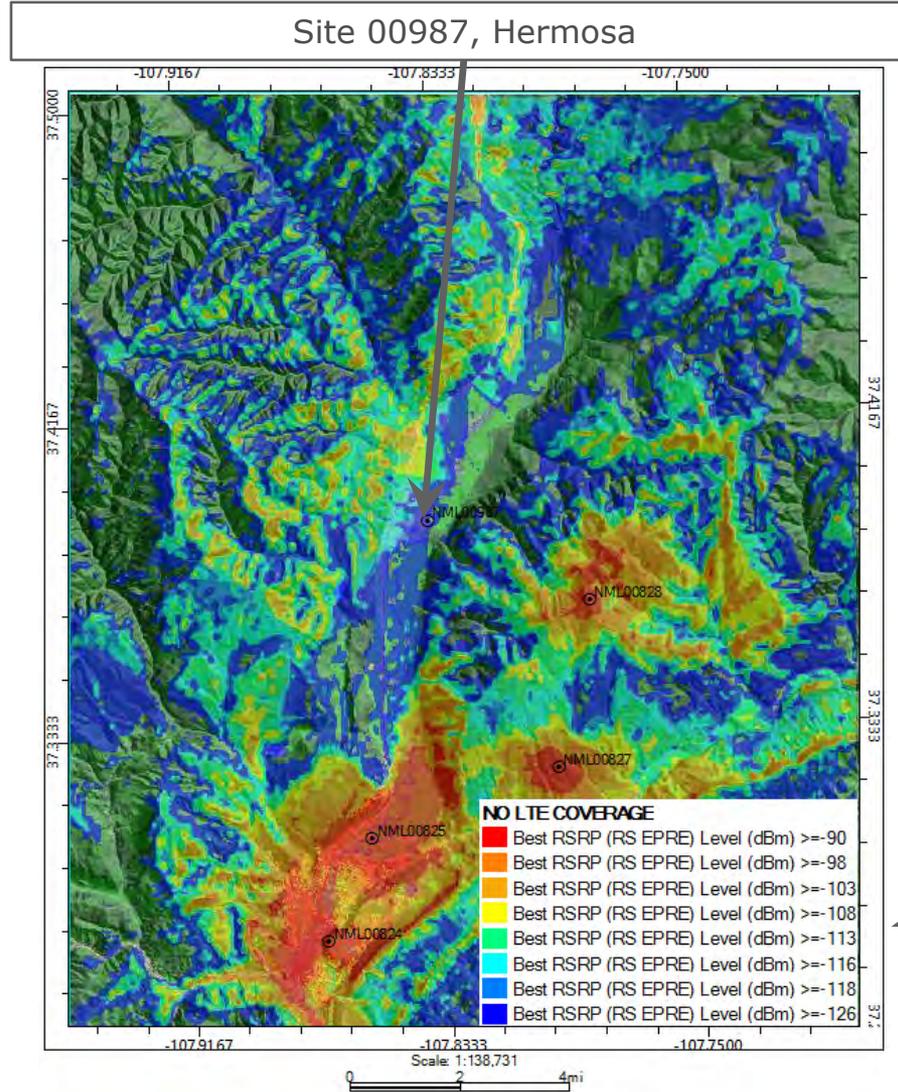
Site 00987, Hermosa



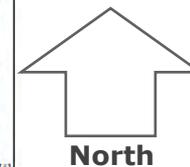
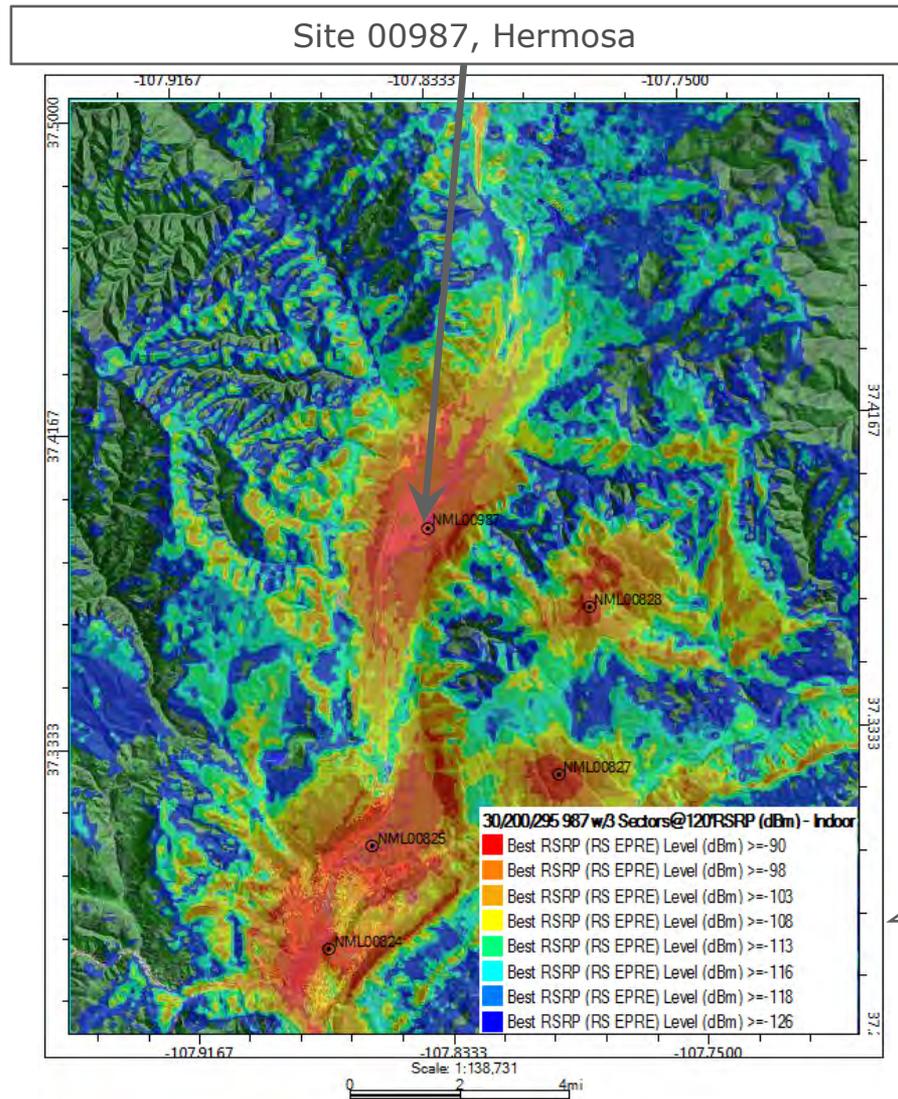
Current 3G Network Coverage with Site 00987 at 58' with Two Sectors



LTE Network Coverage without Site 00987



Proposed LTE Network Coverage with Site 00987 at 120' with Three Sectors



Site 00987, Hermosa

End

Site 00987 (NMALU0987) Hermosa

- LTE Coverage maps
- July 26, 2016



Purpose of Site

- Provide LTE coverage to area with increased data speeds and HD voice capabilities.
- Eliminate the need for the existing 20' site NMALU0826 at the Lone Pine Trailer Park.
- Increase the tower height to allow for the LTE coverage, eliminate dropped calls, and enhance coverage gaps.

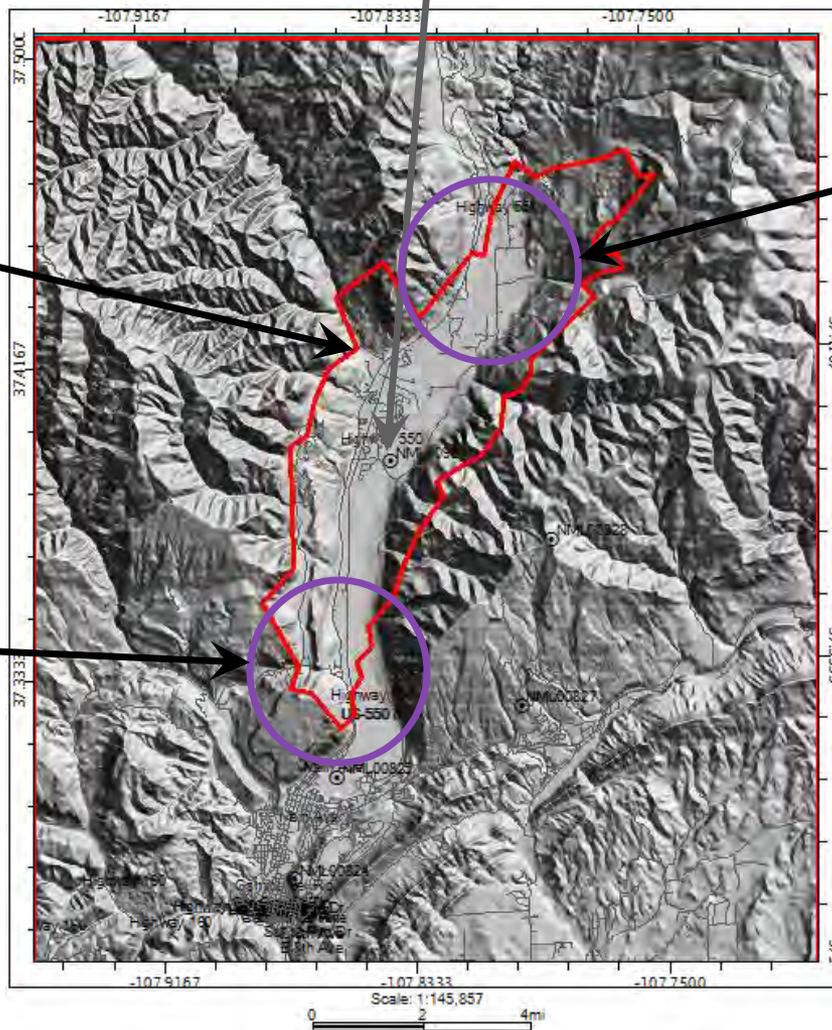


Terrain Surrounding Site 00987 Hermosa

Site 00987, Hermosa

This red boundary represents the geographic boundaries of NMALU0987 Hermosa with a RAD center of 120' (124' overall)

Improved coverage is needed in this area to prevent dropped calls while traveling on Highway 550

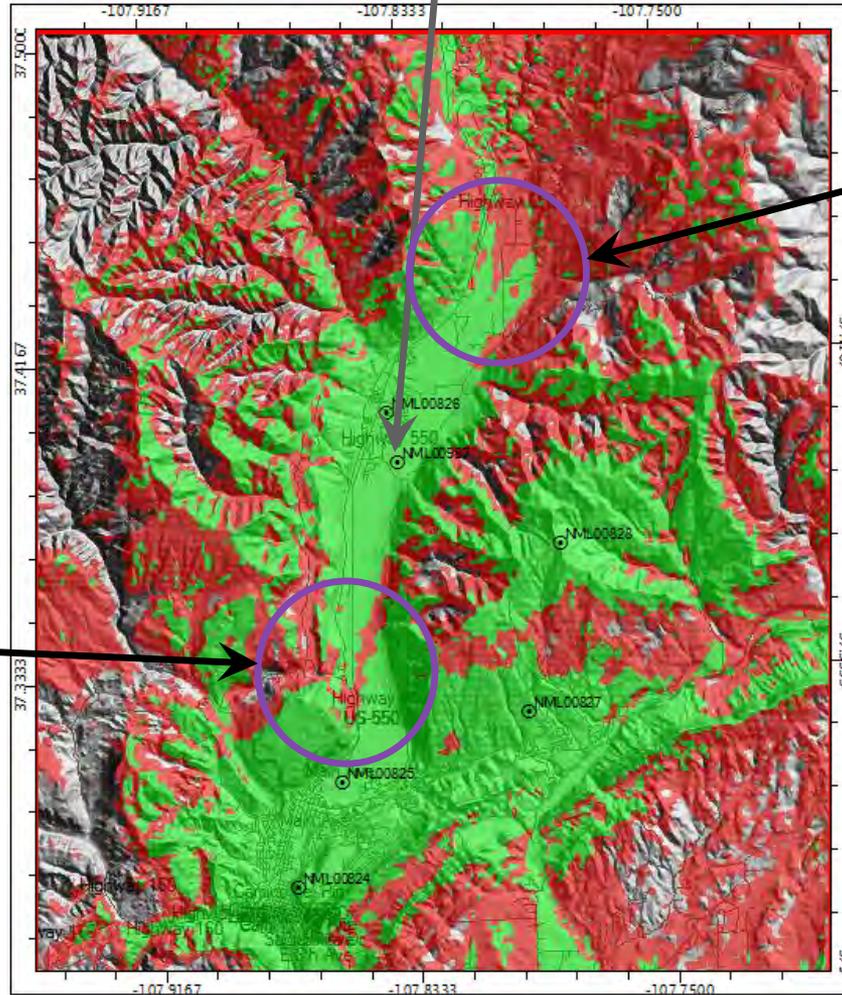


This area has a significant loss of coverage when turning down NMALU0826 Lone Pine. Increasing the tower height at NMALU0987 Hermosa should provide adequate coverage and eliminate need for NMALU0826 Lone Pine.



Current 3G Network Indoor 850 MHz Coverage with Site 00987 at 58' with Two Sectors and site NMLU0826 On-Air (Please note NMLU0826 is off on all other plots contained in this power point)

Site 00987, Hermosa



This area has a significant loss of coverage when turning down NMLU0826 Lone Pine. Increasing the tower height at NMLU0987 Hermosa should provide adequate coverage and eliminate need for NMLU0826 Lone Pine.

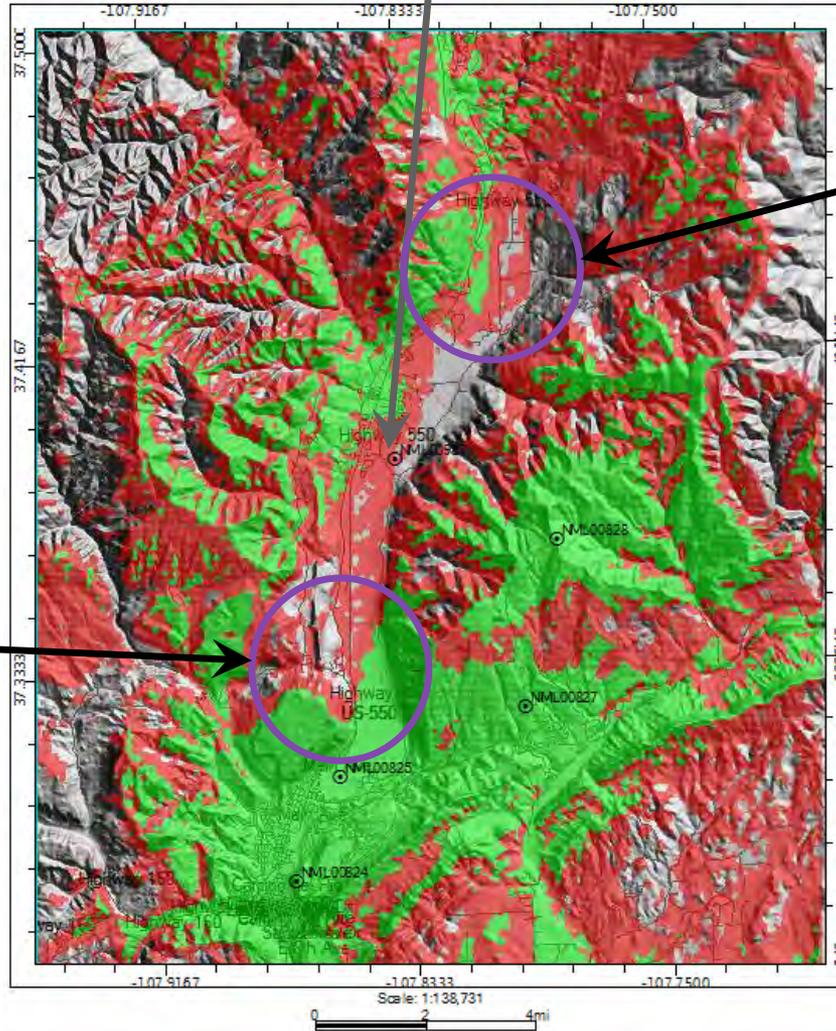
 Acceptable
 Unacceptable



Improved coverage is needed in this area to prevent dropped calls while traveling on Highway 550

LTE Network Indoor 700MHz Coverage without Site 00987 Hermosa

Site 00987, Hermosa



This area has a significant loss of coverage when turning down NMLU0826 Lone Pine. Increasing the tower height at NMLU0987 Hermosa should provide adequate coverage and eliminate need for NMLU0826 Lone Pine.

Acceptable
Unacceptable

Improved coverage is needed in this area to prevent dropped calls while traveling on Highway 550



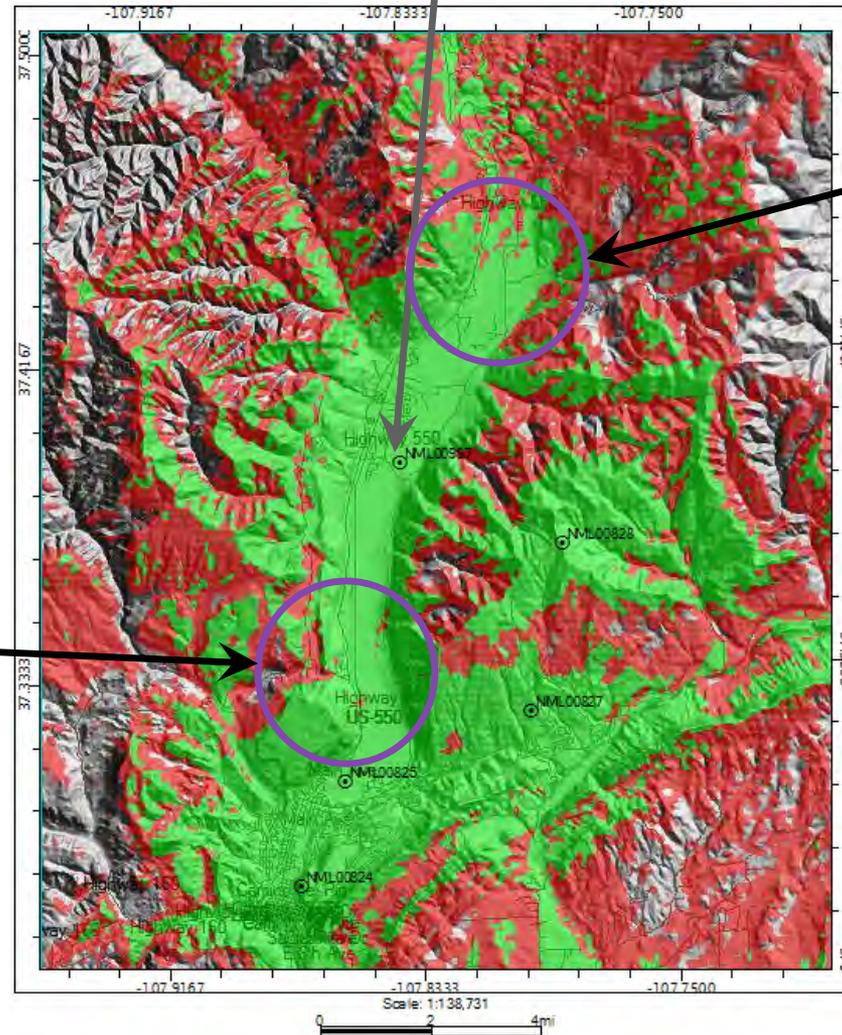
Proposed LTE Network Indoor 700MHz Coverage with Site 00987 Hermosa at county specified code height of 190' with Three Sectors

Site 00987, Hermosa

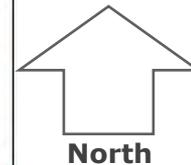
199' Max Height allowed per La Plata County Land Use Code.

This area has a significant loss of coverage when turning down NMLU0826 Lone Pine. Increasing the tower height at NMLU0987 Hermosa should provide adequate coverage and eliminate need for NMLU0826 Lone Pine.

Improved coverage is needed in this area to prevent dropped calls while traveling on Highway 550

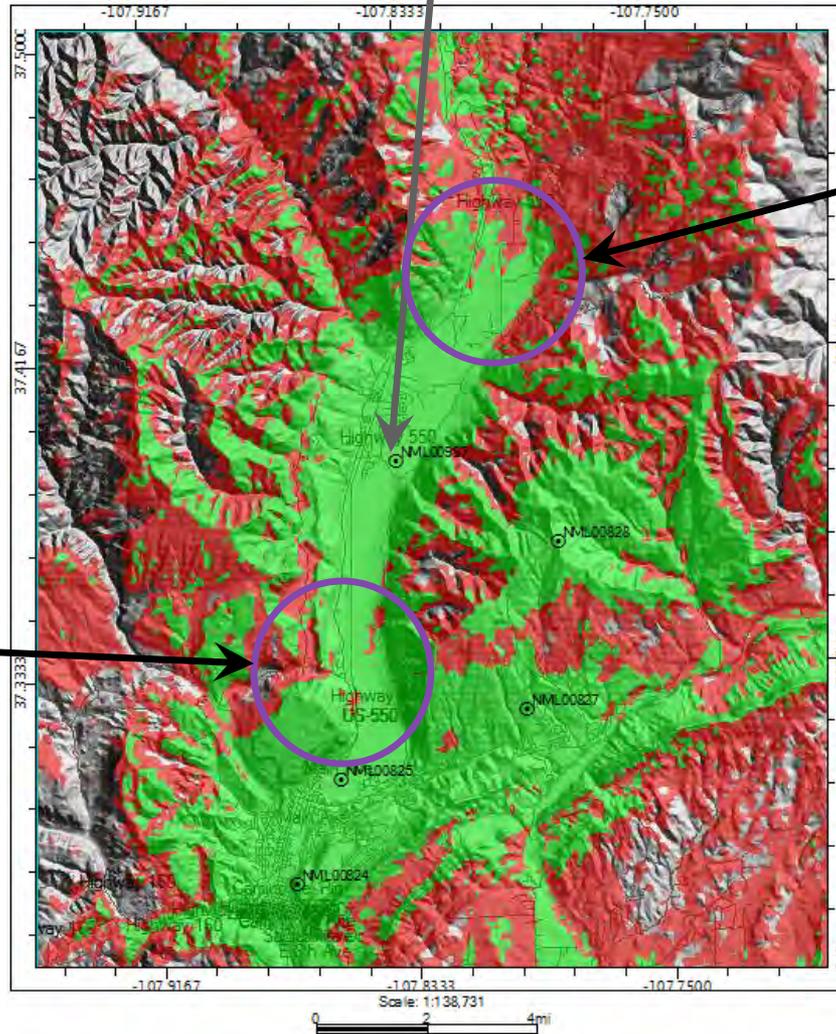


Acceptable
Unacceptable



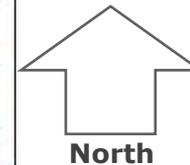
Proposed LTE Network Indoor 700MHz Coverage with Site 00987 Hermosa at 120' (overall 124') with Three Sectors

Site 00987, Hermosa



This area has a significant loss of coverage when turning down NMLU0826 Lone Pine. Increasing the tower height at NMLU0987 Hermosa should provide adequate coverage and eliminate need for NMLU0826 Lone Pine.

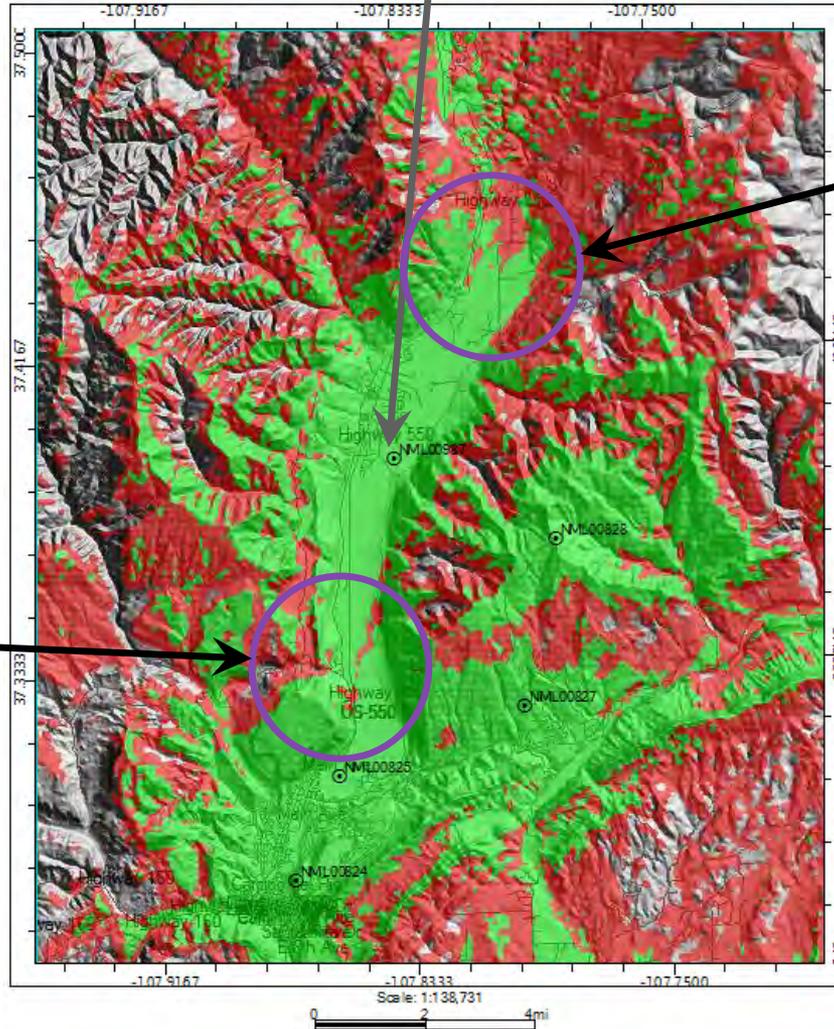
Acceptable
Unacceptable



Improved coverage is needed in this area to prevent dropped calls while traveling on Highway 550

Proposed LTE Network Indoor 700MHz Coverage with Site 00987 Hermosa at 104' with Three Sectors

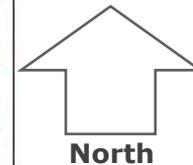
Site 00987, Hermosa



This area has a significant loss of coverage when turning down NMLU0826 Lone Pine. Increasing the tower height at NMLU0987 Hermosa should provide adequate coverage and eliminate need for NMLU0826 Lone Pine.

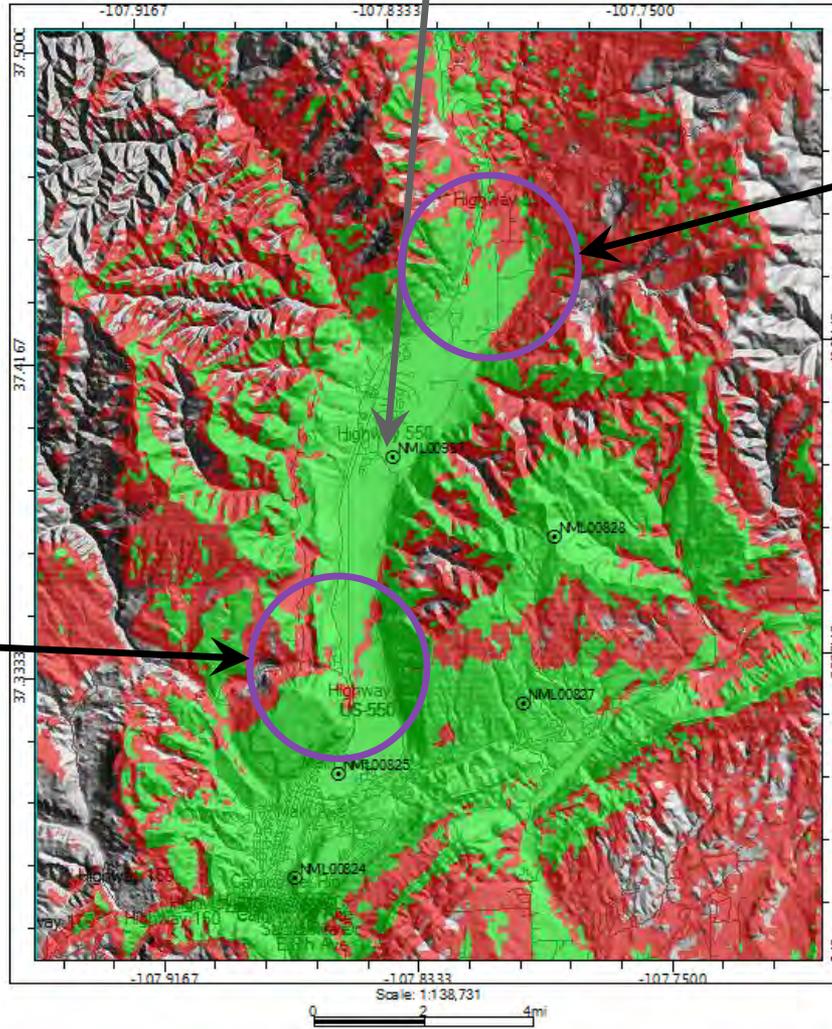
Acceptable
Unacceptable

Improved coverage is needed in this area to prevent dropped calls while traveling on Highway 550



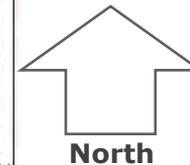
Proposed LTE Network Indoor 700MHz Coverage with Site 00987 Hermosa at 90' with Three Sectors

Site 00987, Hermosa



This area has a significant loss of coverage when turning down NMLU0826 Lone Pine. Increasing the tower height at NMLU0987 Hermosa should provide adequate coverage and eliminate need for NMLU0826 Lone Pine.

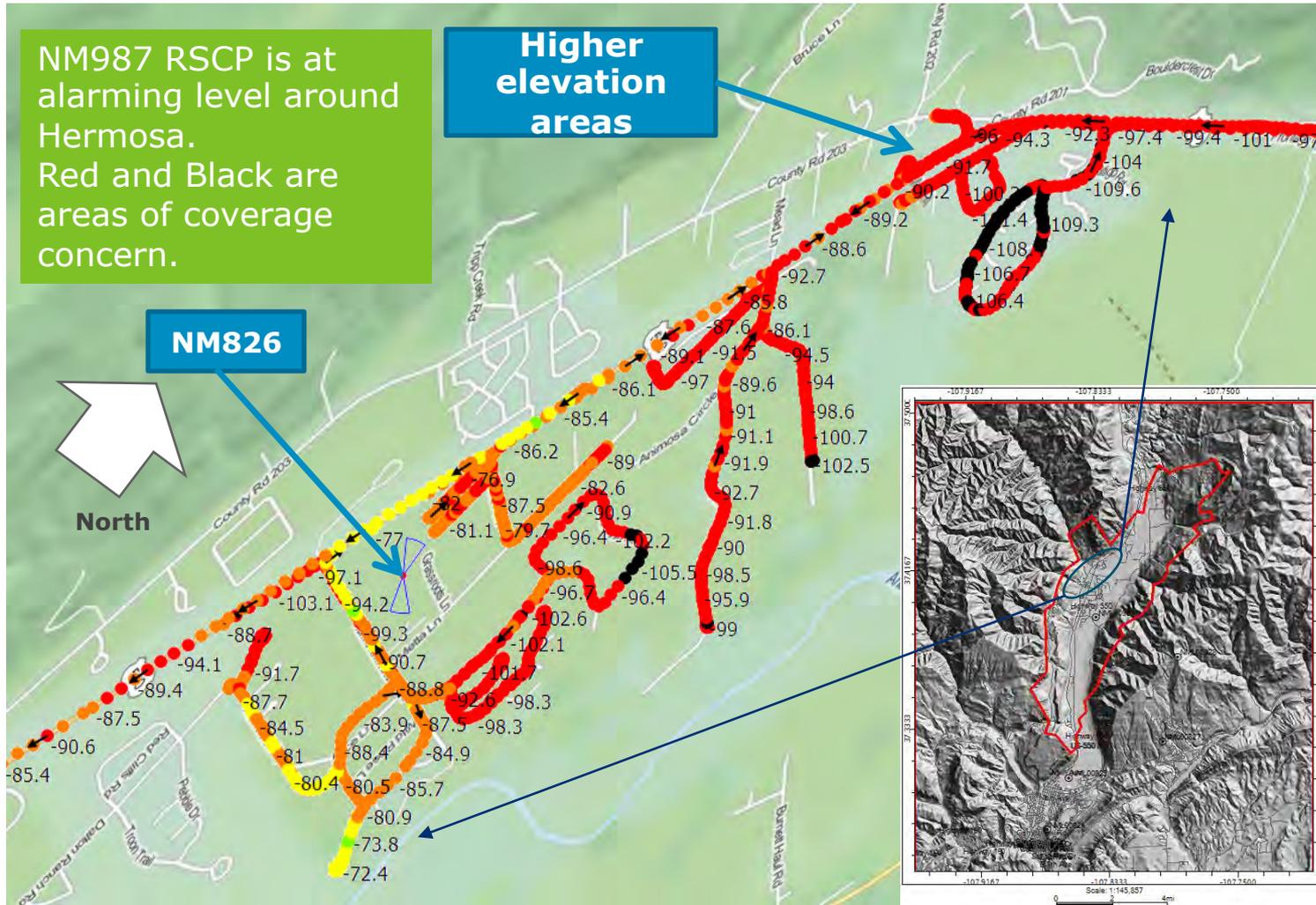
Acceptable
Unacceptable



Improved coverage is needed in this area to prevent dropped calls while traveling on Highway 550

RSCP with NMALU0826 Lone Pine turned down

(Provided by local optimization team)



Site 00987, Hermosa

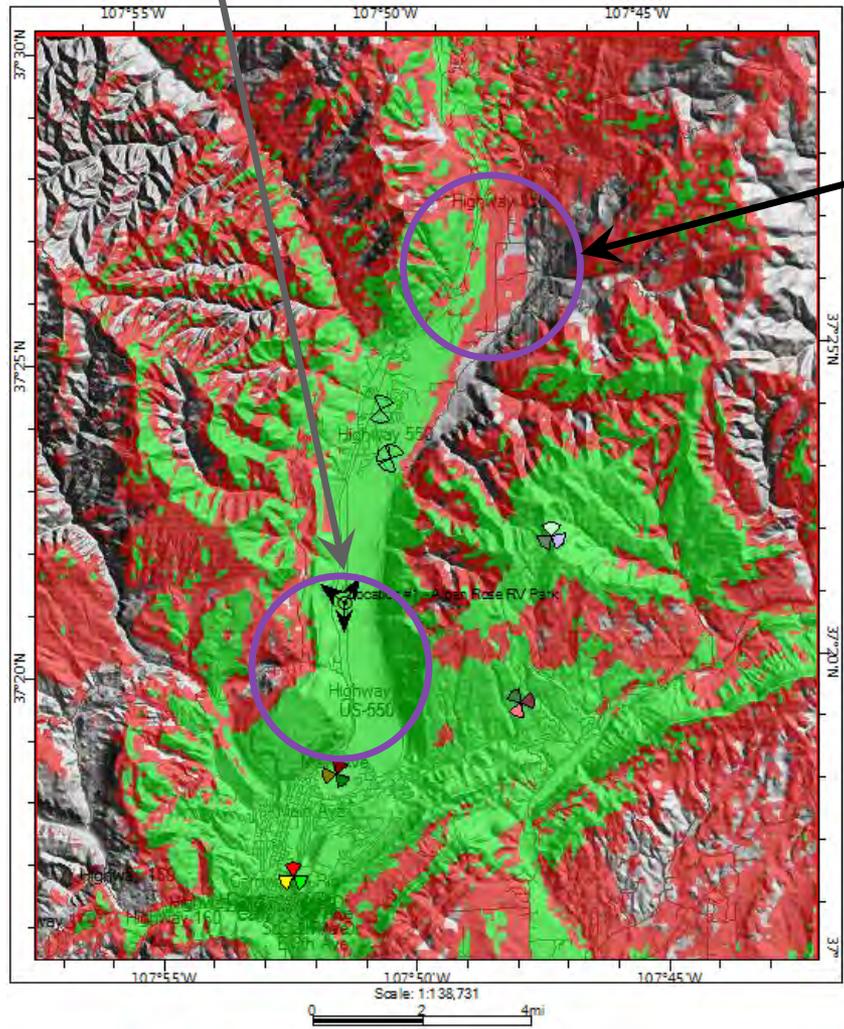
RF coverage plots for alternate locations that were considered.

- #1 – Alpen Rose RV Park –
37° 21' 3.12", -107° 51' 11.73"
- #7 – Red Cliff Ranch –
37° 24' 13.3", -107° 49' 2.35"
- #8 – Honeyville –
37° 25' 36.85", -107° 49' 8.7"

Proposed LTE Network Indoor 700MHz Coverage at alternate location #1 (Alpen Rose RV Park) at 120'

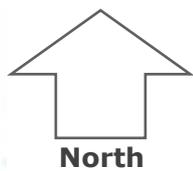
Alternate Location #1 – Alpen Rose RV Park

Location #1 – Alpen Rose RV Park is too far south and will not cover the northern part of the coverage objective due to terrain.



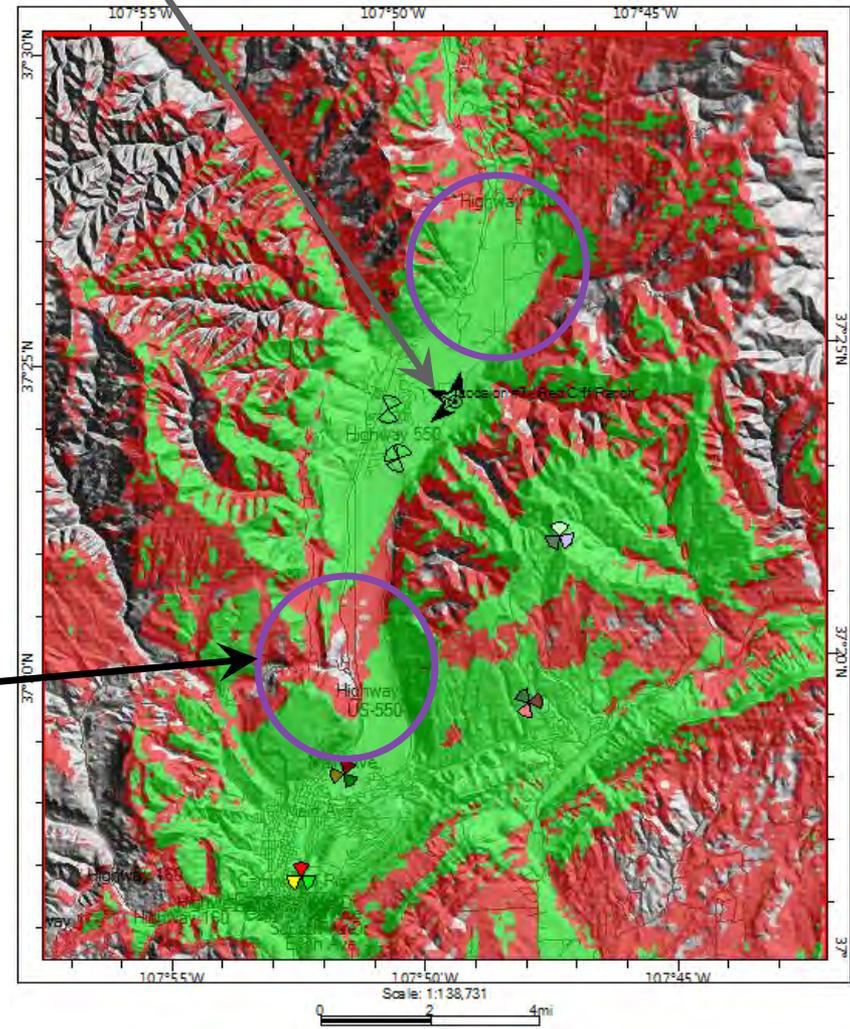
Large loss of coverage in this area with the proposed location #1 Alpen Rose RV Park.

Acceptable
Unacceptable



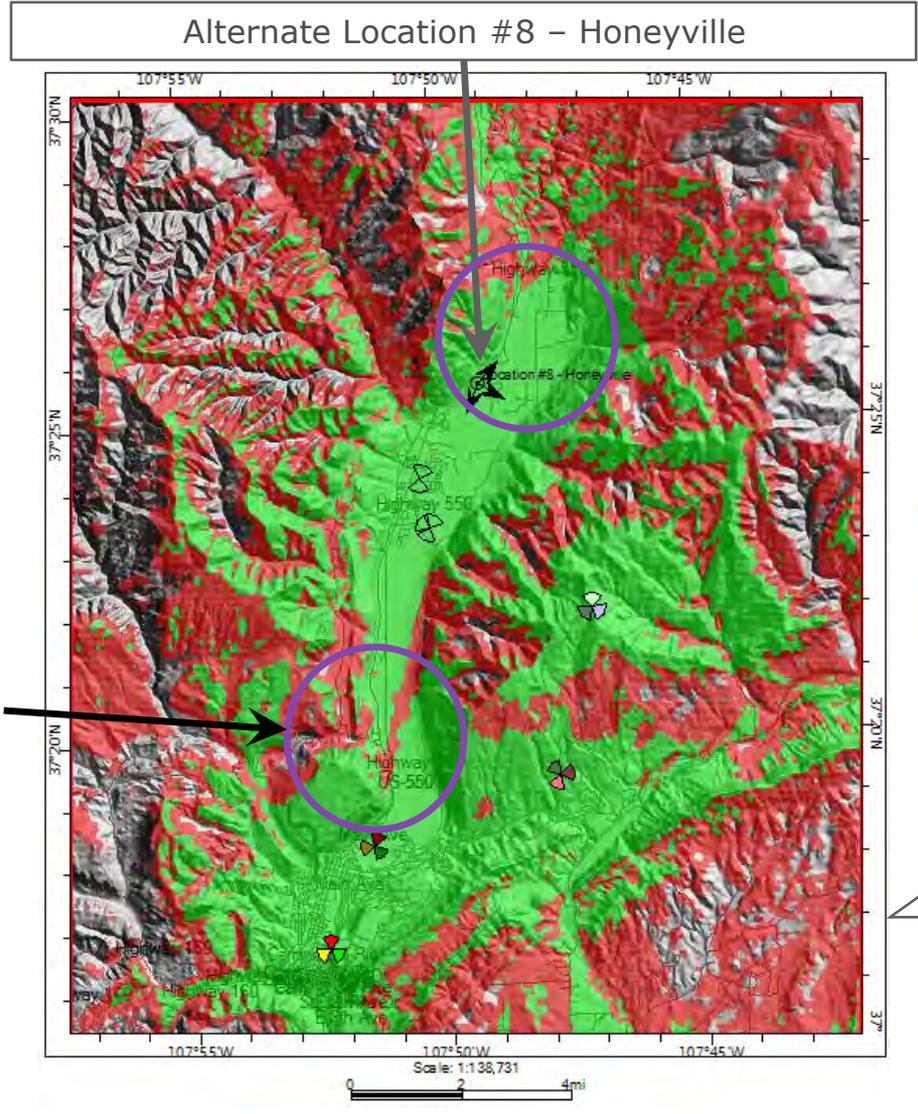
Proposed LTE Network Indoor 700MHz Coverage at alternate location #7 (Red Cliff Ranch) at 120'

Alternate Location #7 - Red Cliff Ranch



Location #7 - Red Cliff Ranch is too far north and will leave a large coverage gap between the adjacent site.

Proposed LTE Network Indoor 700MHz Coverage at alternate location #8 (Honeyville) at 120'



Location #8 – Honeyville is too far north and will leave a large coverage gap between the adjacent site.

Site 00987, Hermosa

End