Clarifying the Environmental (EME) Report

The Environmental EME Report provides calculations of the maximum levels of radiofrequency (RF) electromagnetic energy (EME) around an existing and/or proposed wireless base station. Telstra as the network operator produce this report as part of a methodology developed by the Australian Radiation Protection and Nuclear Safety Agency (ARPANSA).

The maximum EME levels calculated and shown in the second section of the report are based on radius bands at 1.5m assuming the ground is flat from the proposed installation. In this case (assuming flat ground) the maximum EME level for the proposed installation at Glenrock Parade Koolewong is 0.43% of the public exposure limit, 179m from the base station.

In addition the Environmental EME report takes into account the fact terrain is rarely ever flat and the Points of Interest (POIs) included in the last section of the report reflect this. The EME level predictions for specific POIs takes changes of elevation into account, for the changes to ground elevation that receivers are located. A height scan is also entered to provide an EME reading estimate for different building types (1 or 2 storey). The EME and radiofrequency coverage modelling software interfaces with a professional-licensed version of Google Earth, which includes 3D-modelled terrain.

The POIs in the supplied report were selected based on a desktop analysis of residences within close proximity to the proposals. We considered these the most likely to make submissions regarding the proposal. The addresses of the properties are:

Name on EME Report	Physical address	Predicted EME level (% of ARPANSA safety standard)
Residence on Glenrock Parade	256 Glenrock Parade, Tascott 2250	0.044%
Residence on Moruya Close	7 Moruya Close, Koolewong 2256	0.11%
Residence on Glenrock Parade 2	264 Glenrock Parade, Tascott NSW 2250	0.66%

Should additional residences along Glenrock Parade require EME level predictions for their properties they are more than welcome to submit a written request and provide their addresses and we will provide the calculations.

EME level predictions are based on a worst-case scenario that assumes the base station is operating at capacity (being accessed by the maximum number of users) and there is a direct line of sight to the antennas. The predictions do not take into account other variables such as buildings, trees and other vegetation standing between the antennas and members of the public. Please find attached a guide to Environmental EME Reports prepared by ARPANSA.