

Figure 2: Site layout – Girragulang Road cluster

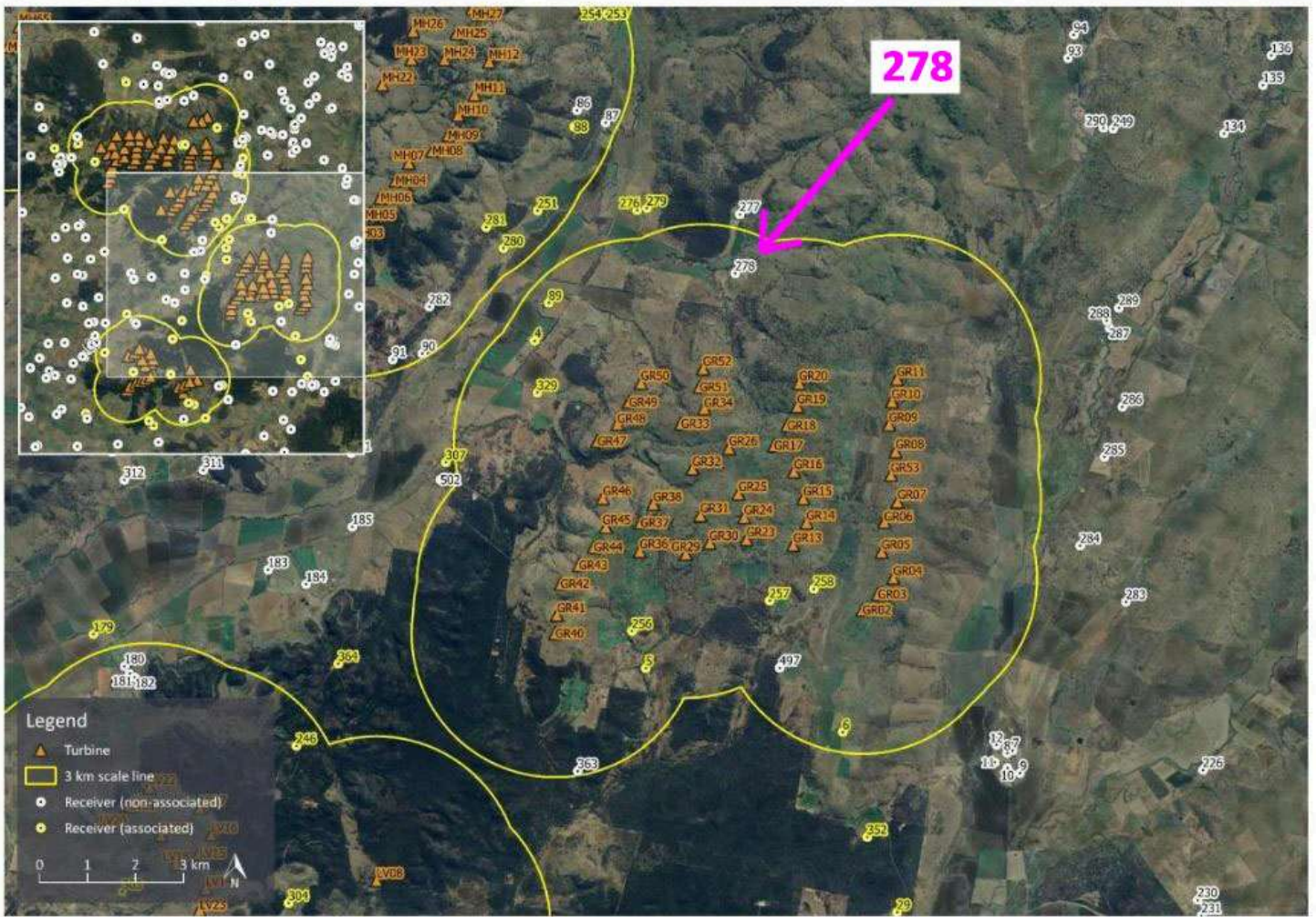


Figure 4: Highest predicted noise level contours for GE 6.0-164, dB LAeq

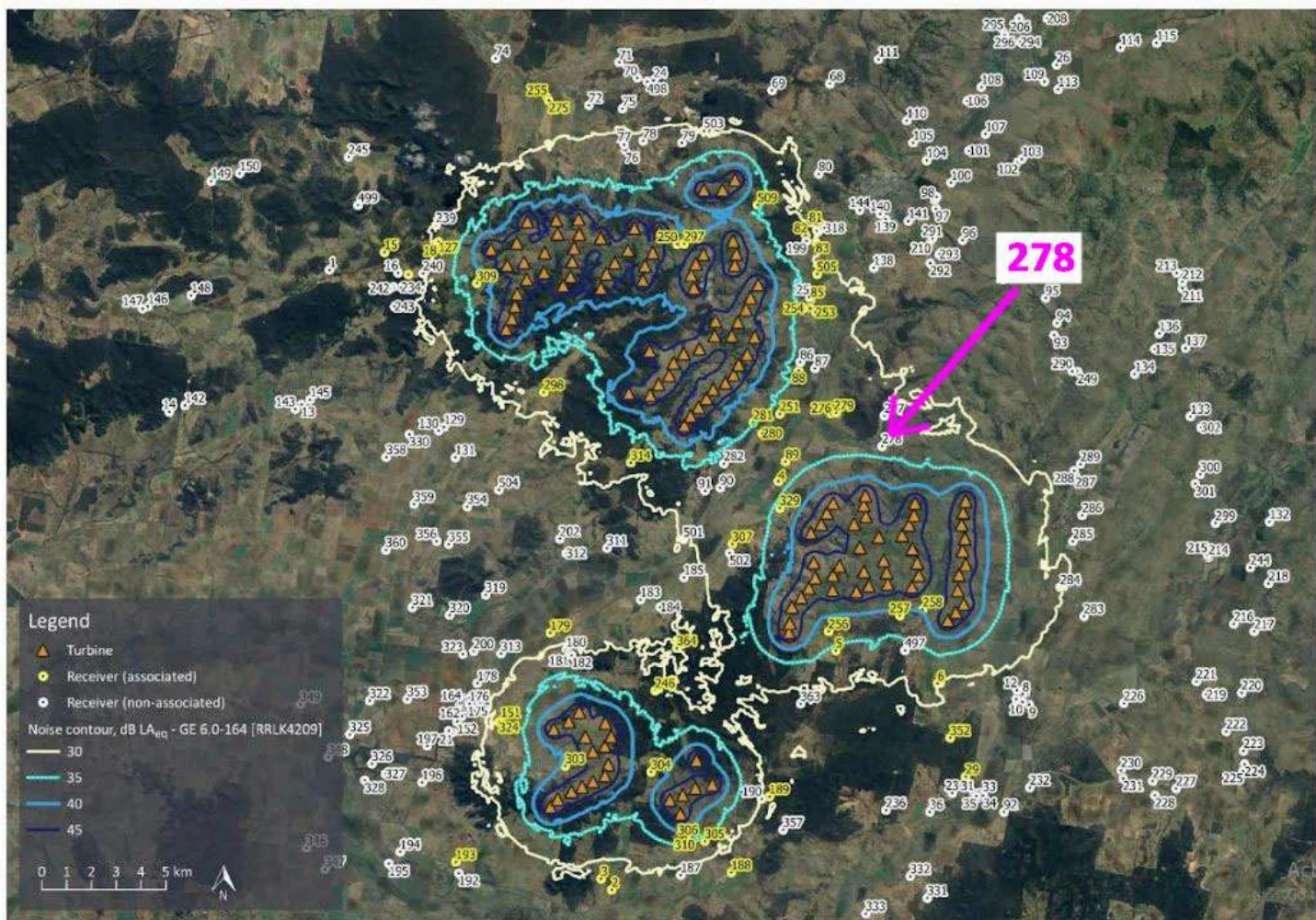


Table 4: Cumulative assessment for relevant VoWWF receivers (predicted noise level larger than 32 dB), dB LAeq

Receiver	LRWF (GE 5.5 – 158)	VoWWF (GE 6.0-164)	Cumulative	Change in compliance outcome due to cumulative effects with respect to the base criterion
<i>Non-associated receivers</i>				
25	21.2	32.7	33.0	No
86	20.5	33.3	33.5	No
87	19.7	32.0	32.2	No
90	17.2	32.7	32.8	No
91	17.8	32.5	32.6	No
278	18.2	33.4	33.5	No
282	17.7	33.9	34.0	No
497	19.4	34.1	34.2	No

2.2 Predicted Noise Levels

Noise modelling has been updated to incorporate the revised wind turbine and dwelling layouts. All other noise modelling parameters, including wind turbine source noise levels, topography, and ground factor inputs is the same as stated in the EIS Noise Assessment.

The receivers where operational wind turbine noise levels are predicted to be higher than 30 dB L_{Aeq} are listed in Table 2 for non-associated receivers and Table 3 for associated receivers. The value of 30 dB L_{Aeq} is referenced here for informative purposes. In some cases, receivers at which predicted noise levels are above 30 dB L_{Aeq} may be greater than 3 km from a turbine.

As detailed in the EIS Noise Assessment, the minimum wind turbine noise limit applicable at non-associated receivers is 35 dB L_{Aeq} , and the reference level for associated receivers is 45 dB L_{Aeq} . The predicted wind turbine noise levels from the proposed wind farm are below the noise limit for all non-associated receivers, and below the reference level for all associated receivers.

Table 2: Highest predicted noise level at non-associated receivers with predicted levels above 30 dB L_{Aeq}

Receiver	SG 6.2-170	GE 6.0-164	V162-6.2 MW
25	31.3	32.7	31.6
76 ^[1]	30.4	31.7	30.8
77 ^[1]	29.9	31.1	30.2
78 ^[1]	29.7	30.9	30.0
79	30.4	31.7	30.7
84	30.0	31.4	30.3
86	31.9	33.3	32.2
87	30.8	32.0	31.0
90	31.5	32.7	31.8
91	31.4	32.5	31.6
180	29.3	30.6	29.5
181	29.7	31.1	30.0
182	30.0	31.4	30.3
199	29.6	30.9	29.9
239	29.1	30.3	29.4
277 ^[1]	29.8	30.9	30.0
278	32.1	33.4	32.4
282	32.6	33.9	32.9
497	32.7	34.1	33.1
501 ^[1]	29.1	30.0	29.1
502 ^[1]	30.5	31.6	30.7

Quoting from the Peer Reviewed study of the Noise Assessment for this ACEN project

It is surprising for an EIS, that **must** include *‘completed technical studies, including an accurate noise impact assessment for relevant dwellings is undertaken consistent with the requirements of the Noise Assessment Bulletin’*, to state

that the wind turbine layout, turbine type, the consideration of other matters such as tonality, low frequency noise and sound power levels can all change and are issues that will be considered **after** approval of the EIS.