

A.13. Dwelling Assessment Dwelling D341

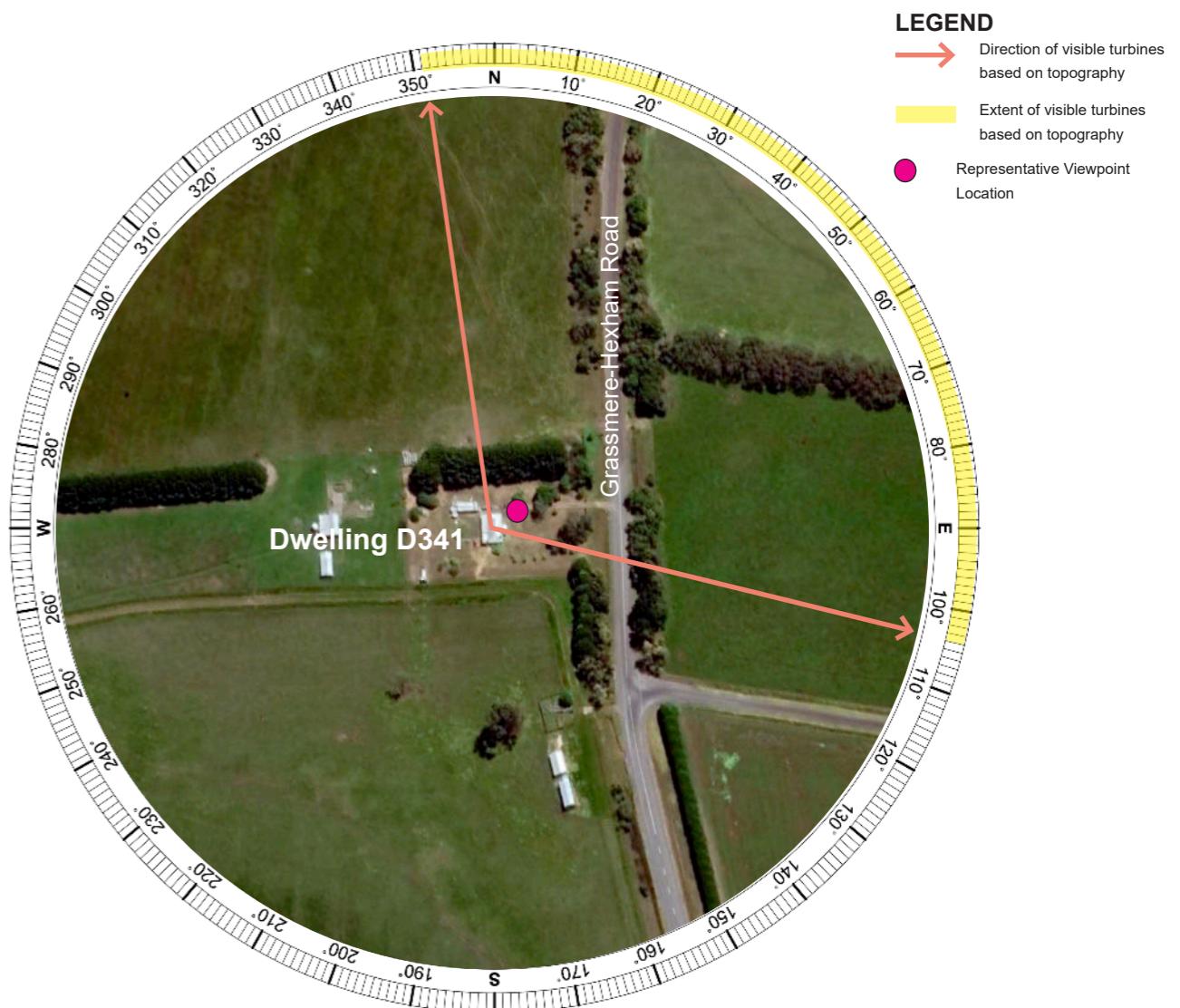
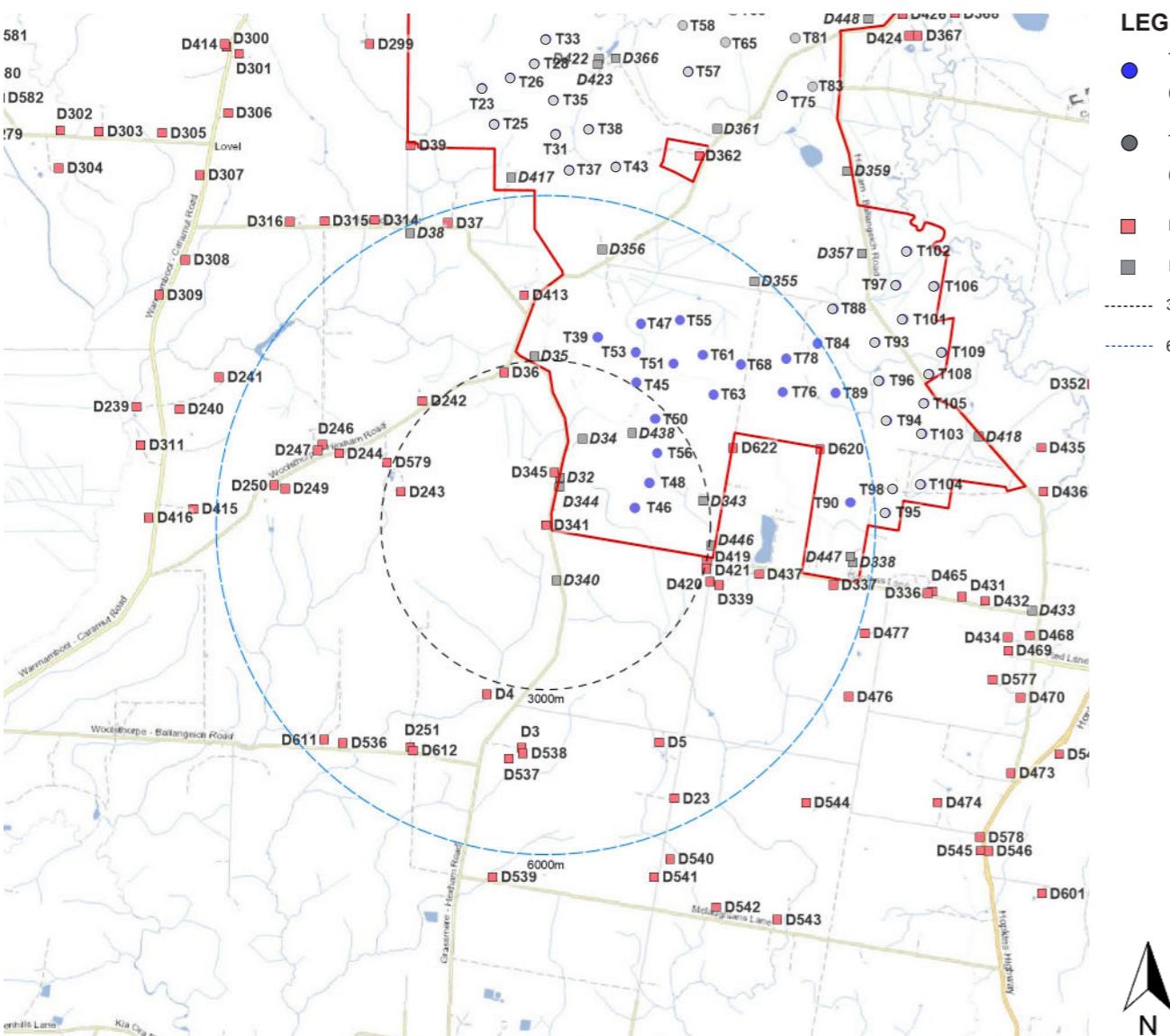
DWELLING D341			
Nearest proposed turbine (km):	1.66 km	Viewer Sensitivity:	Moderate
Number of proposed turbines within 6,000m of the dwelling:	18	Scenic Quality Rating:	Low
Number of potentially visible turbines (Based on topography alone)	106	Landscape Character Unit:	LCU01

Assessment Notes:

A site inspection was undertaken in May 2023 at this dwelling and a viewpoint was selected in consultation with the owner. The wire frame diagram prepared from the dwelling indicates all (106) turbines would theoretically be visible at hub height based on topography alone. The nearest turbine to the dwelling is located approximately 1.66 km away. On inspection it was found that the dwelling is surrounded by dense windbreak vegetation along the northern boundary. Views to the north and northeast are screened by existing windbreak vegetation. Up to one (1) blade tips are likely to be visible at this dwelling and it is likely that the Project will have a low impact on the existing scenic quality. The visual impact resulting from the Project has been rated as **Low**.

Mitigation Measures:

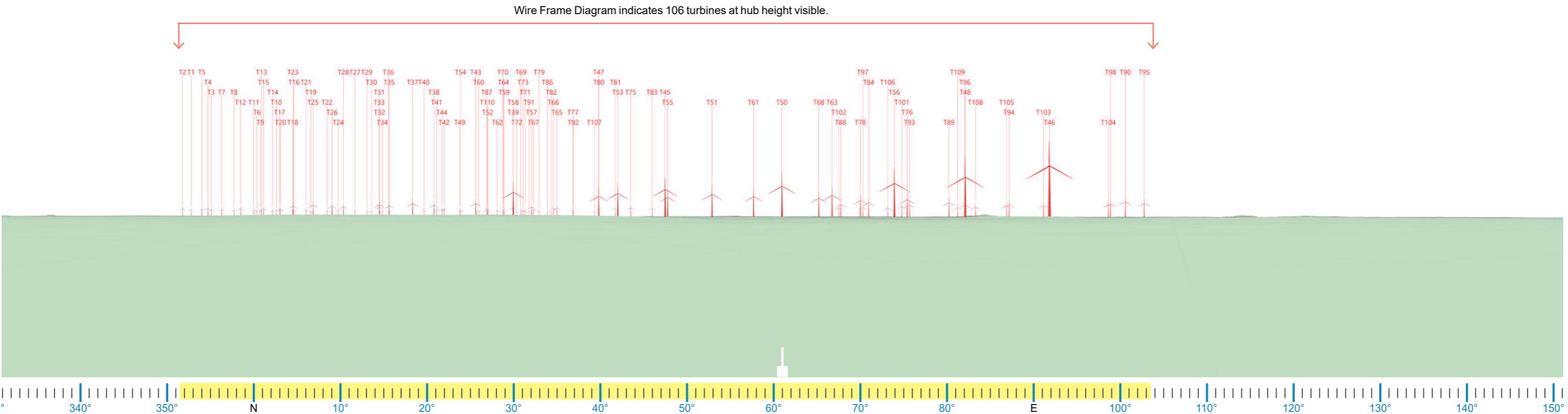
Existing vegetation will screen view to the turbines. Mitigation is not required.



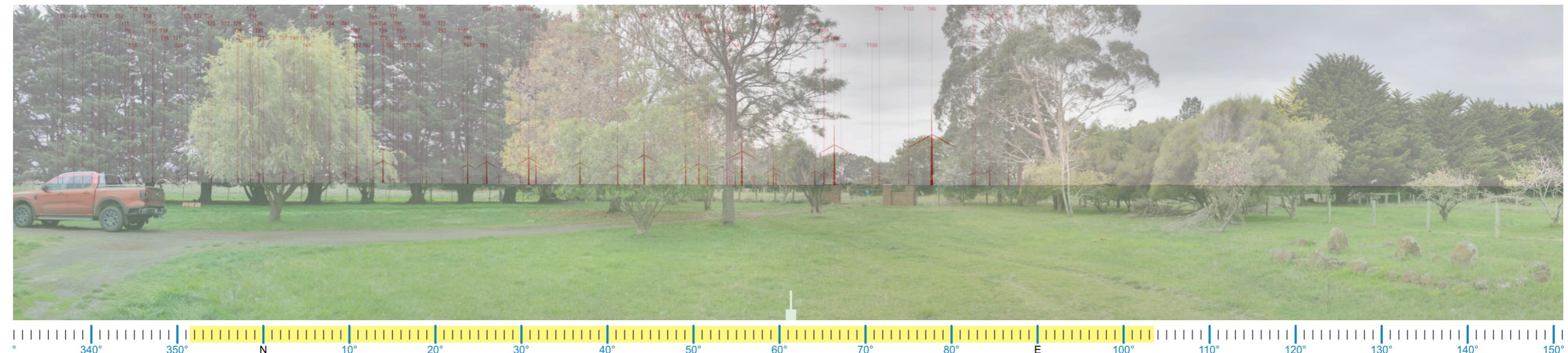
Aerial Image Source: Google Earth (December 2022)

A.13. Dwelling Assessment Dwelling D341

Proposed Wire Frame Diagram - 180 degree field of view

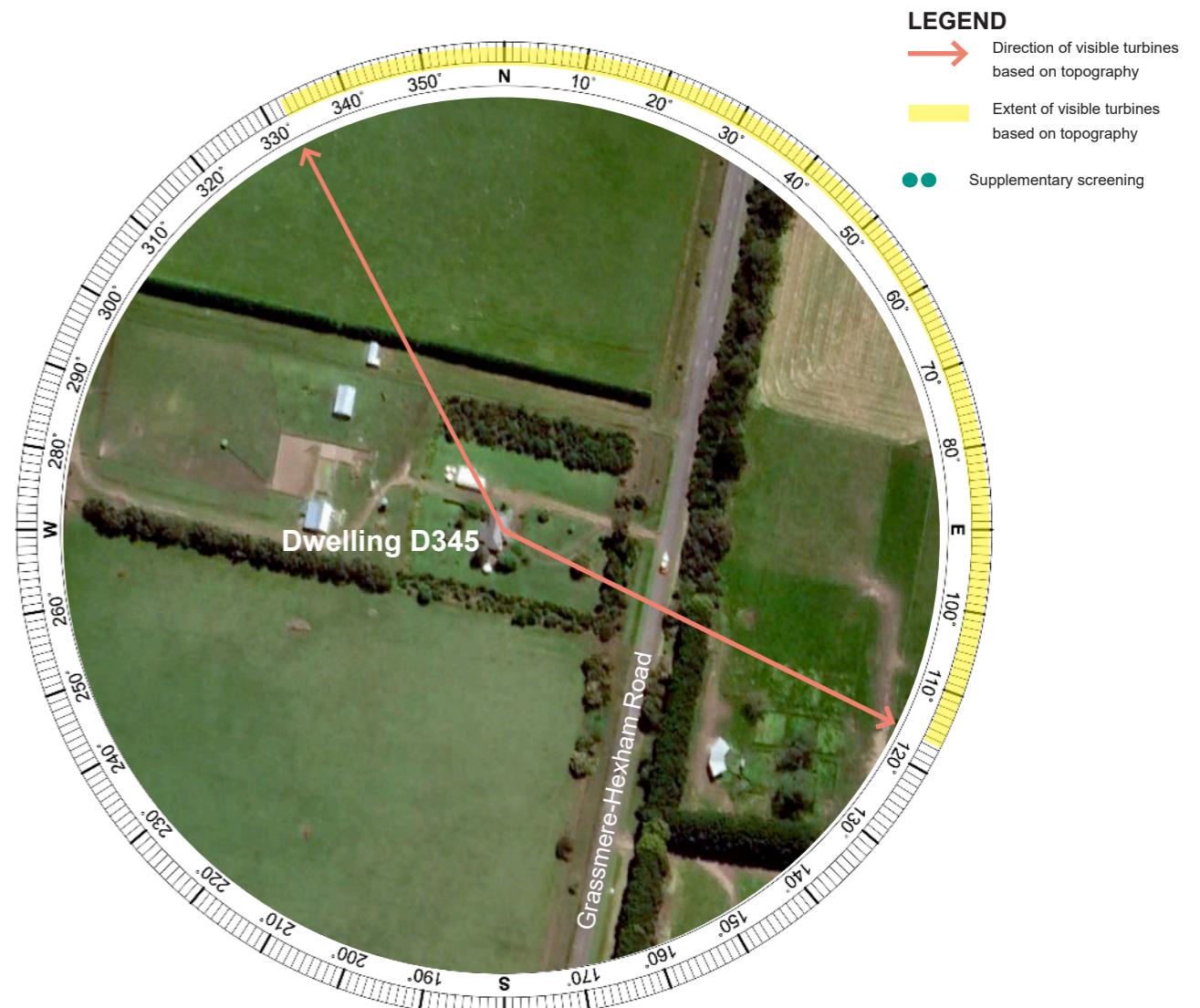
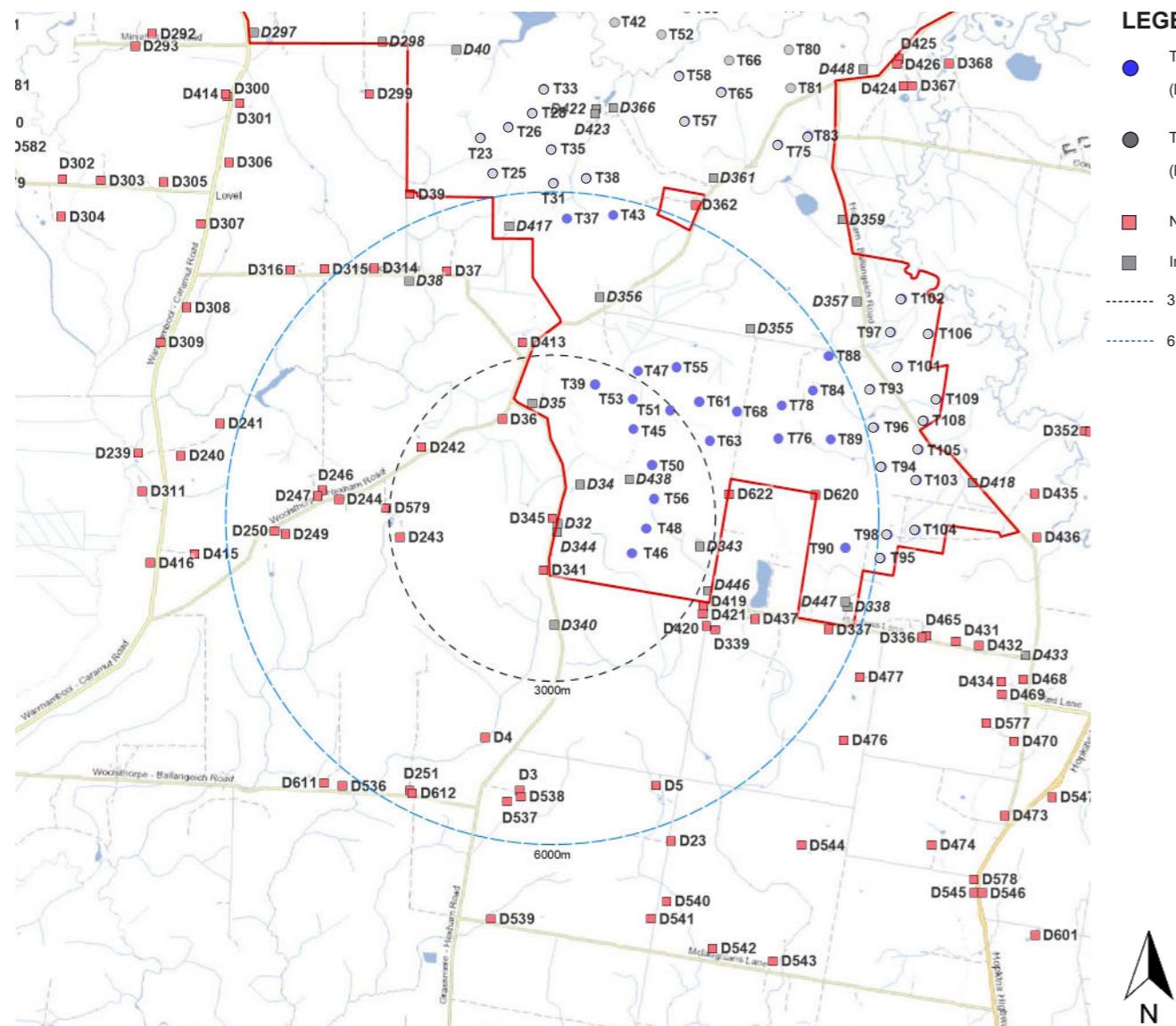


Existing View - 180 degree field of view



A.14. Dwelling Assessment Dwelling D345

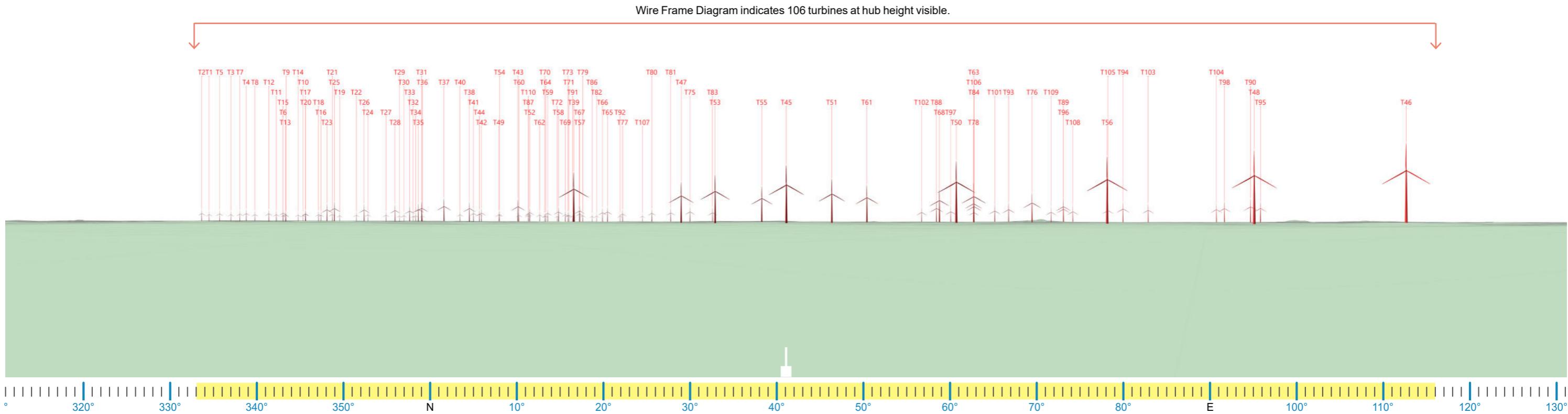
DWELLING D345			
Nearest proposed turbine (km):	1.60 km	Viewer Sensitivity:	Moderate
Number of proposed turbines within 6,000m of the dwelling:	21	Scenic Quality Rating:	Low
Number of potentially visible turbines (Based on topography alone)	106	Landscape Character Unit:	LCU01
Visual Impact Rating: Low			
Assessment Notes: A wire frame diagram has been prepared for this assessment as access to the dwelling was not available. The wire frame diagram prepared from the dwelling indicates all (106) turbines would theoretically be visible at hub height based on topography alone. The nearest turbine to the dwelling is located approximately 1.60 km away. Based on 3D assessment, views of the Project are likely to be available in the northeast. Aerial imagery indicates that the dwelling is surrounded by rows of dense windbreak vegetation along the northern and eastern boundaries of the lot. Additional dense vegetation lines Grassmere-Hexham Road between the dwelling and the project. It is likely that existing vegetation would screen views to the project. Based on desktop assessment, the visual impact resulting from the Project has been rated as Low .			
Mitigation Measures: Mitigation is not required.			



Aerial Image Source: Google Earth (December 2022)

A.14. Dwelling Assessment Dwelling D345

Proposed Wire Frame Diagram - 180 degree field of view



Note:

No access to Site was available.

The wire frame diagram is a preliminary assessment tool that represents a bare ground scenario - ie. a landscape without screening, structures or vegetation. As accurate information on the height and coverage of vegetation and buildings is unavailable, it is important to note the wire frame diagram is based solely on topographic information.

Therefore this should be acknowledged as representing the absolute worst case scenario.

A.15. Dwelling Assessment Dwelling D352

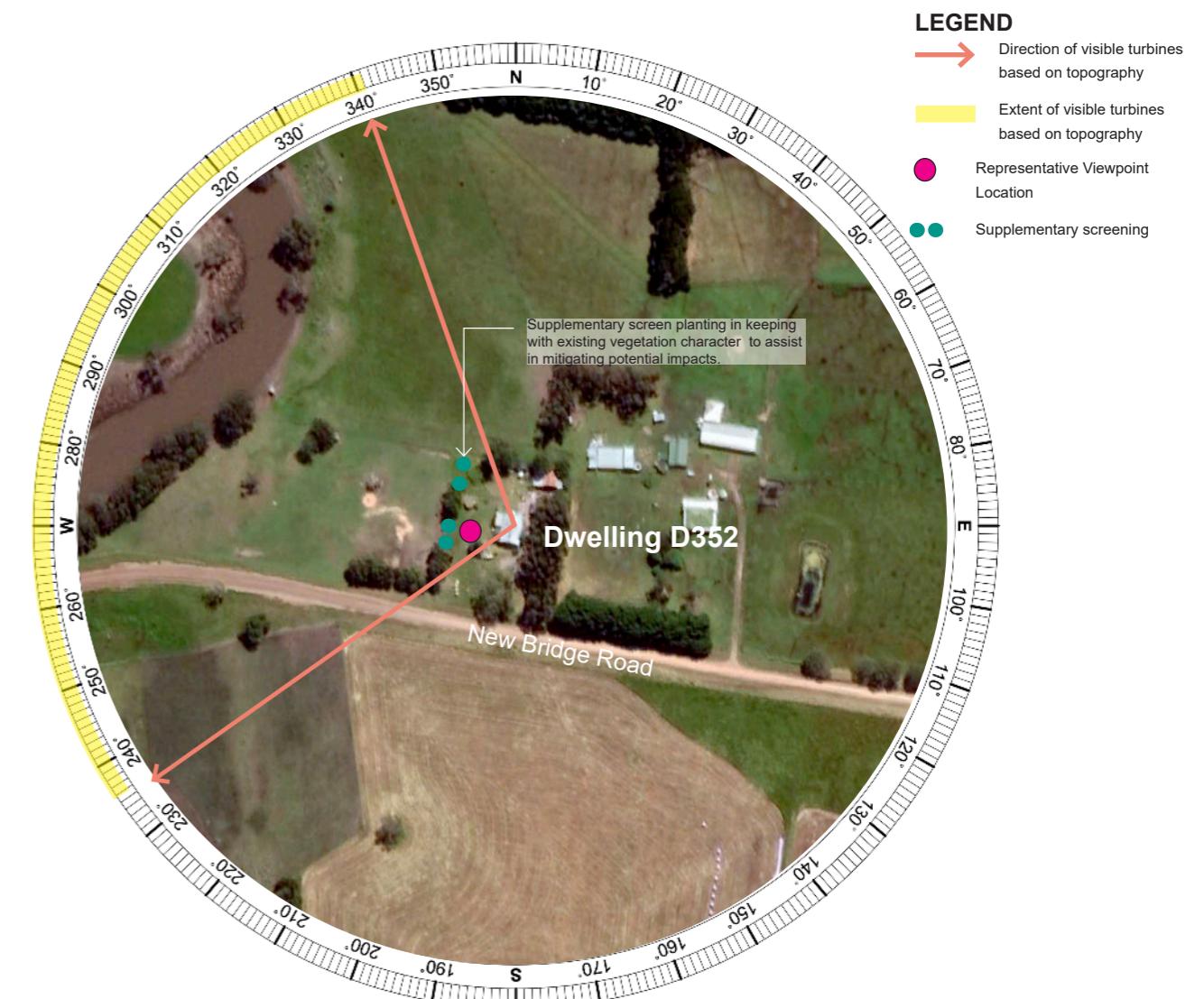
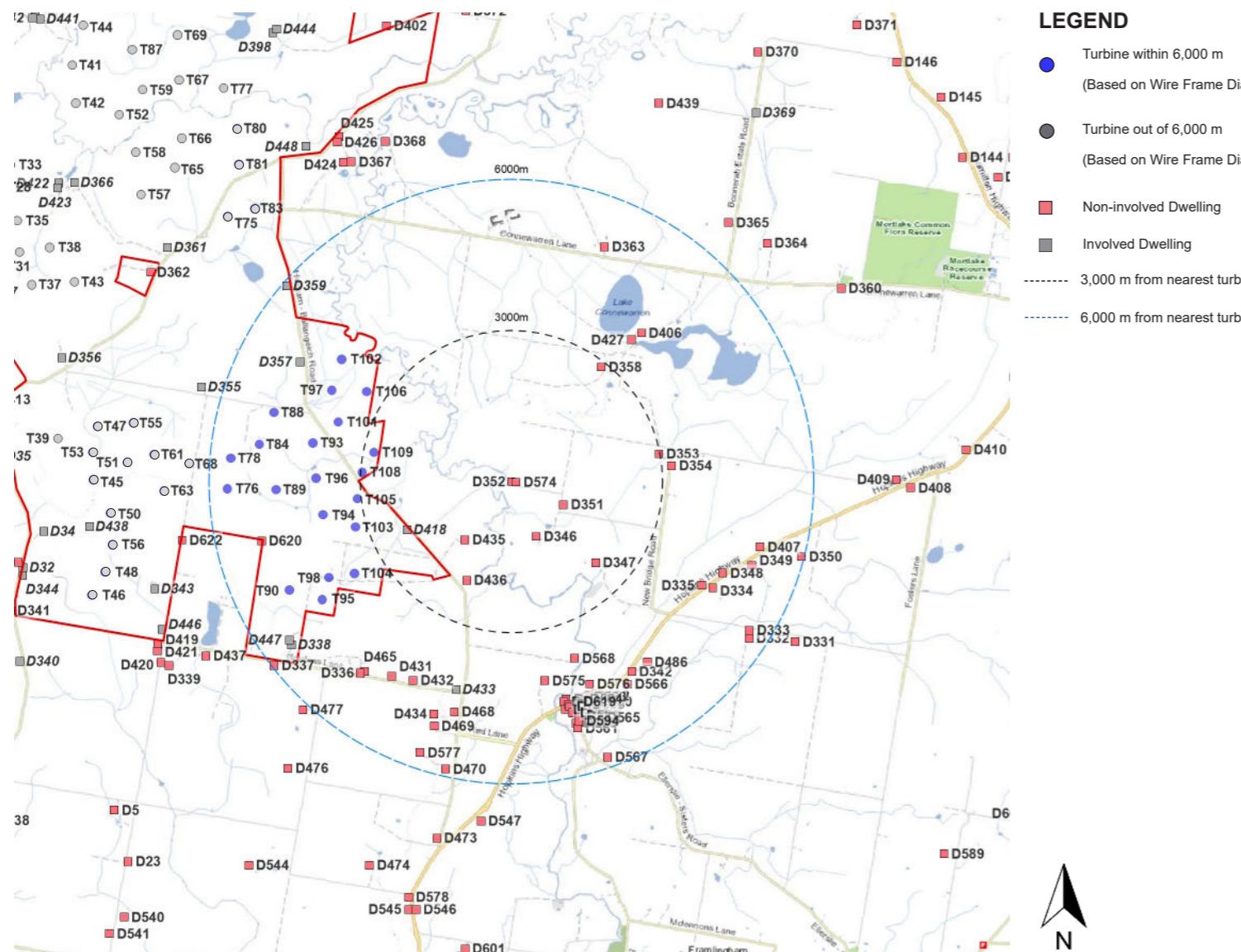
DWELLING D352			
Nearest proposed turbine (km):	2.77 km	Viewer Sensitivity:	Moderate
Number of proposed turbines within 6,000m of the dwelling:	20	Scenic Quality Rating:	Low
Number of potentially visible turbines (Based on topography alone)	106	Landscape Character Unit:	LCU01
Visual Impact Rating: Moderate			

Assessment Notes:

A site inspection was undertaken in May 2023 at this dwelling and a viewpoint was selected in consultation with the owner. The wire frame diagram prepared from the dwelling indicates 106 turbines would be theoretically visible at hub height based on topography alone. The nearest turbine is located approximately 2.77 km away from the dwelling. On inspection it was determined that the dwelling is surrounded by scattered vegetation to the north and west. A photomontage has been prepared to demonstrate the extent of visibility of the Project from the dwelling. Gaps in the existing vegetation allow visibility of the nearest and turbines in up to 80 degrees of the viewshed. It is likely that the turbines will have a moderate impact on the existing scenic quality of the view from this dwelling. The visual impact resulting from the Project has been rated as **Moderate**.

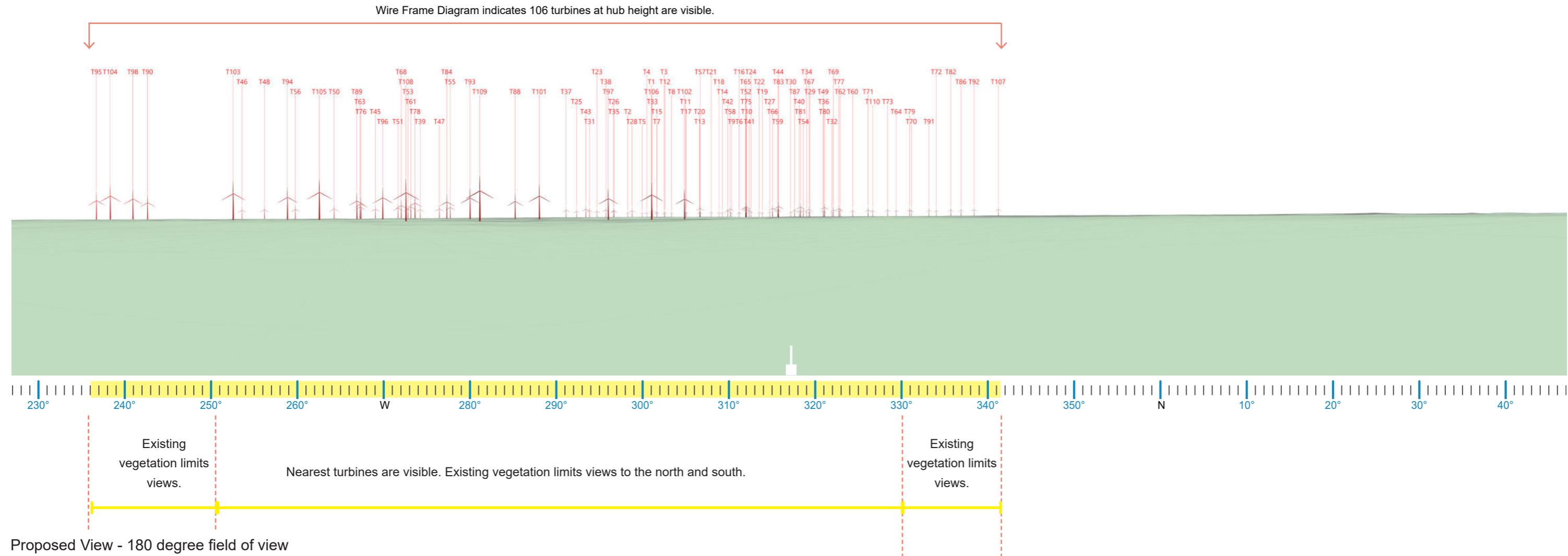
Mitigation Measures:

Supplementary screen planting along the existing row of windbreak vegetation would potentially reduce the visual impact to low as demonstrated in locations where existing windbreak planting is effective in screening views, however this will take time to establish. Consultation with the landowner is recommended to discuss appropriate mitigation options.



A.15. Dwelling Assessment Dwelling D352

Proposed Wire Frame Diagram - 180 degree field of view



NOTE: Modified image with blue sky for Photomontage.

A.16. Dwelling Assessment Dwelling D362

DWELLING D362			
Nearest proposed turbine (km):	1.86 km	Viewer Sensitivity:	Moderate
Number of proposed turbines within 6,000m of the dwelling:	55	Scenic Quality Rating:	Low
Number of potentially visible turbines (Based on topography alone)	106	Landscape Character Unit:	LCU01
Visual Impact Rating: Low			

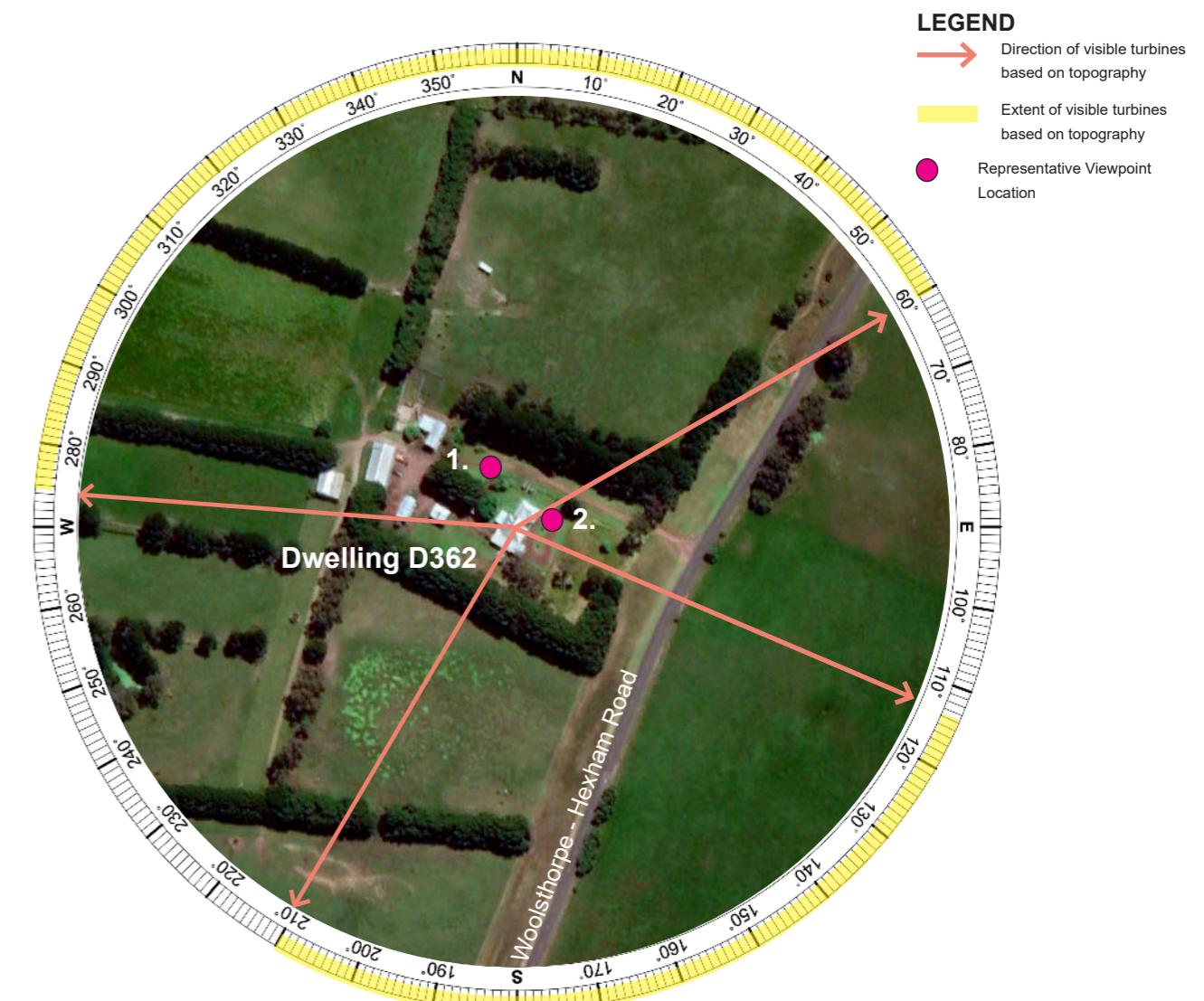
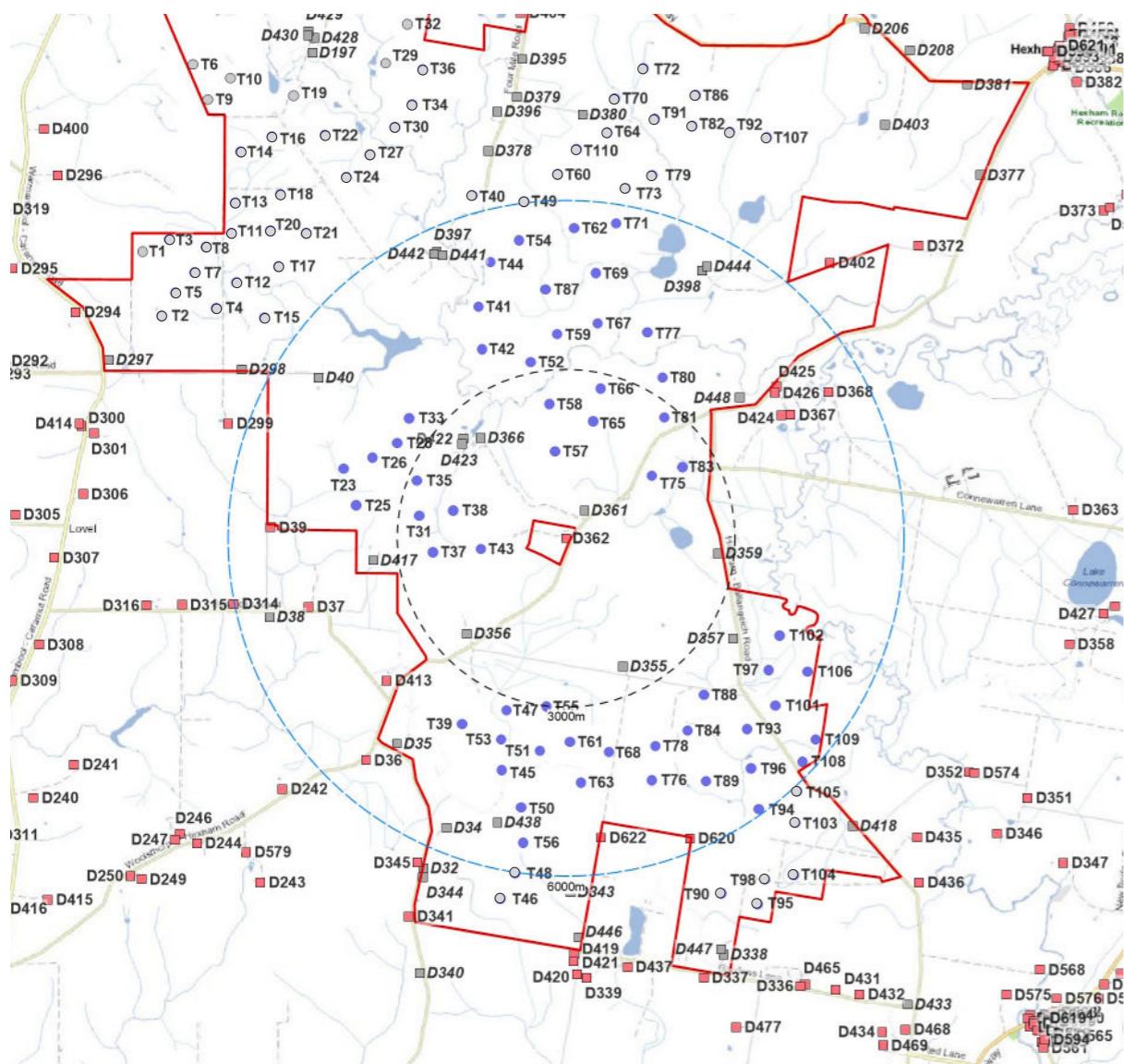
Assessment Notes:

A site inspection was undertaken in May 2023 at this dwelling. The wire frame diagram prepared from the dwelling indicates all (106) turbines would theoretically be visible at hub height based on topography alone. The nearest turbine is located approximately 1.86 km away from the dwelling. On inspection it was found that the dwelling is surrounded by dense vegetation along the northern boundary, scattered vegetation along the eastern boundary and dense windbreak vegetation along the southern and western boundaries. A photomontage has been prepared to demonstrate the extent of visibility of the Project from the dwelling. Gaps in existing vegetation allow partial visibility of the nearest turbines in up to 25 degrees of the viewshed in the southeastern direction. The existing 500 kV transmission line is also visible in the southeast. It is likely that the Project will have a low impact on the scenic quality due to its limited visibility and as the turbines will be viewed in the context of existing infrastructure. The visual impact resulting from the Project has been rated as **Low**.

Mitigation Measures:

Existing vegetation will screen view to majority of the turbines. Mitigation is not required.

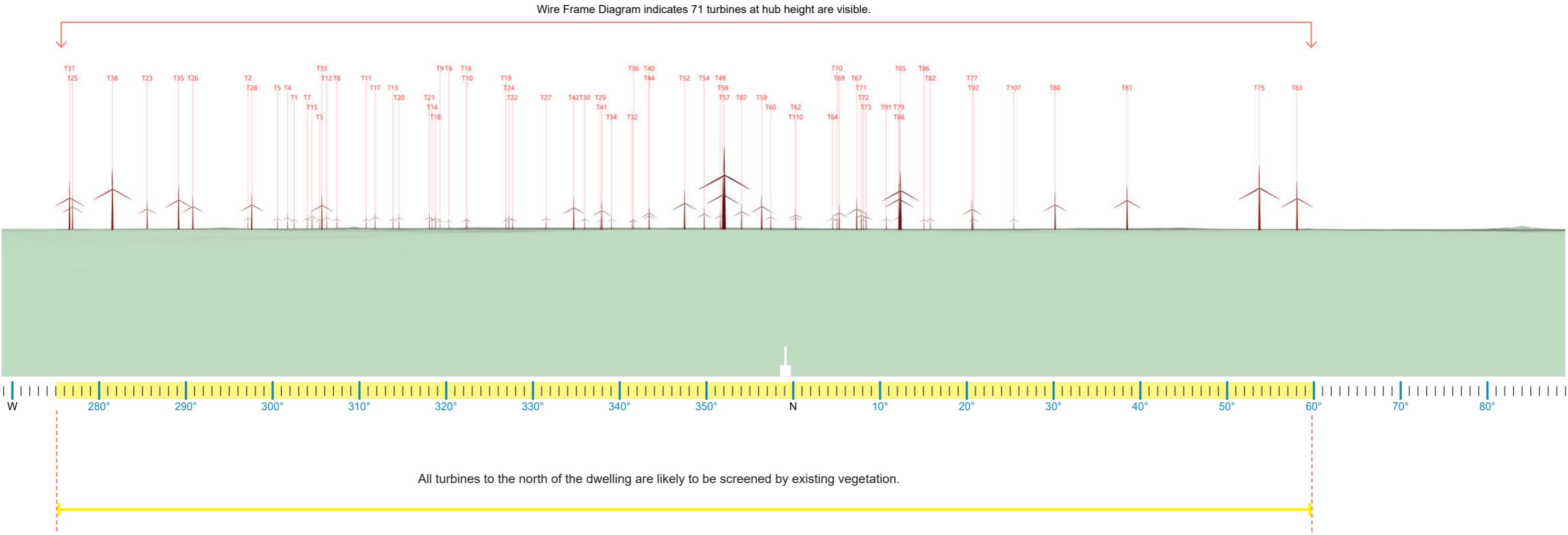
Viewpoint was selected in consultation with the landowner.



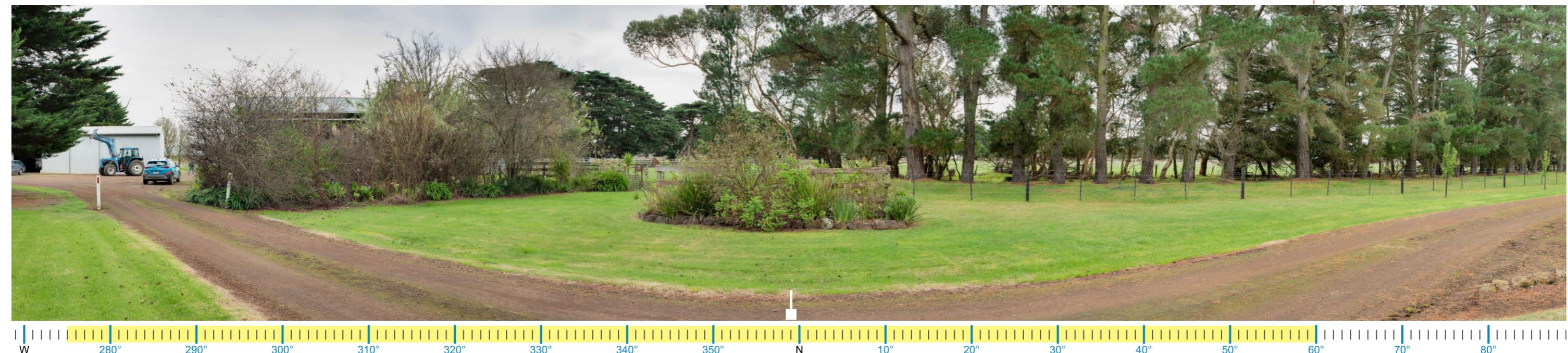
Aerial Image Source: Google Earth (December 2022)

A.16. Dwelling Assessment Dwelling D362

Proposed Wire Frame Diagram - 180 degree field of view

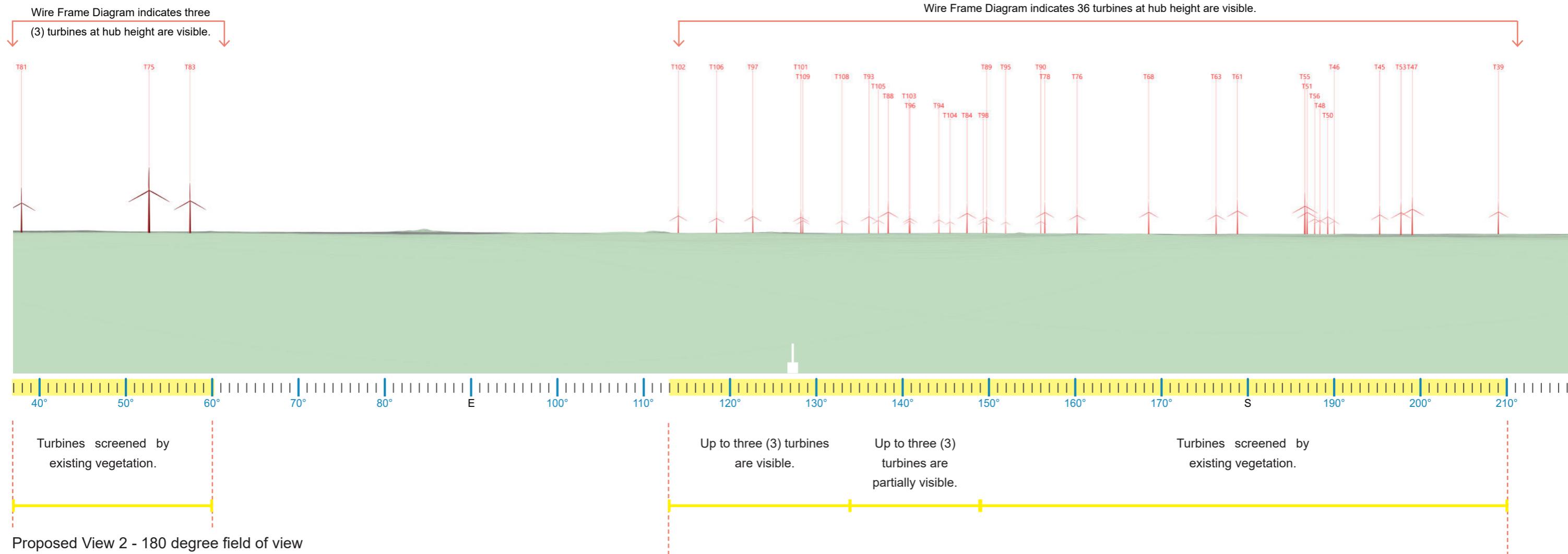


Proposed View 1 - 180 degree field of view



A.16. Dwelling Assessment Dwelling D362

Proposed Wire Frame Diagram - 180 degree field of view



A.17. Dwelling Assessment Dwelling D402

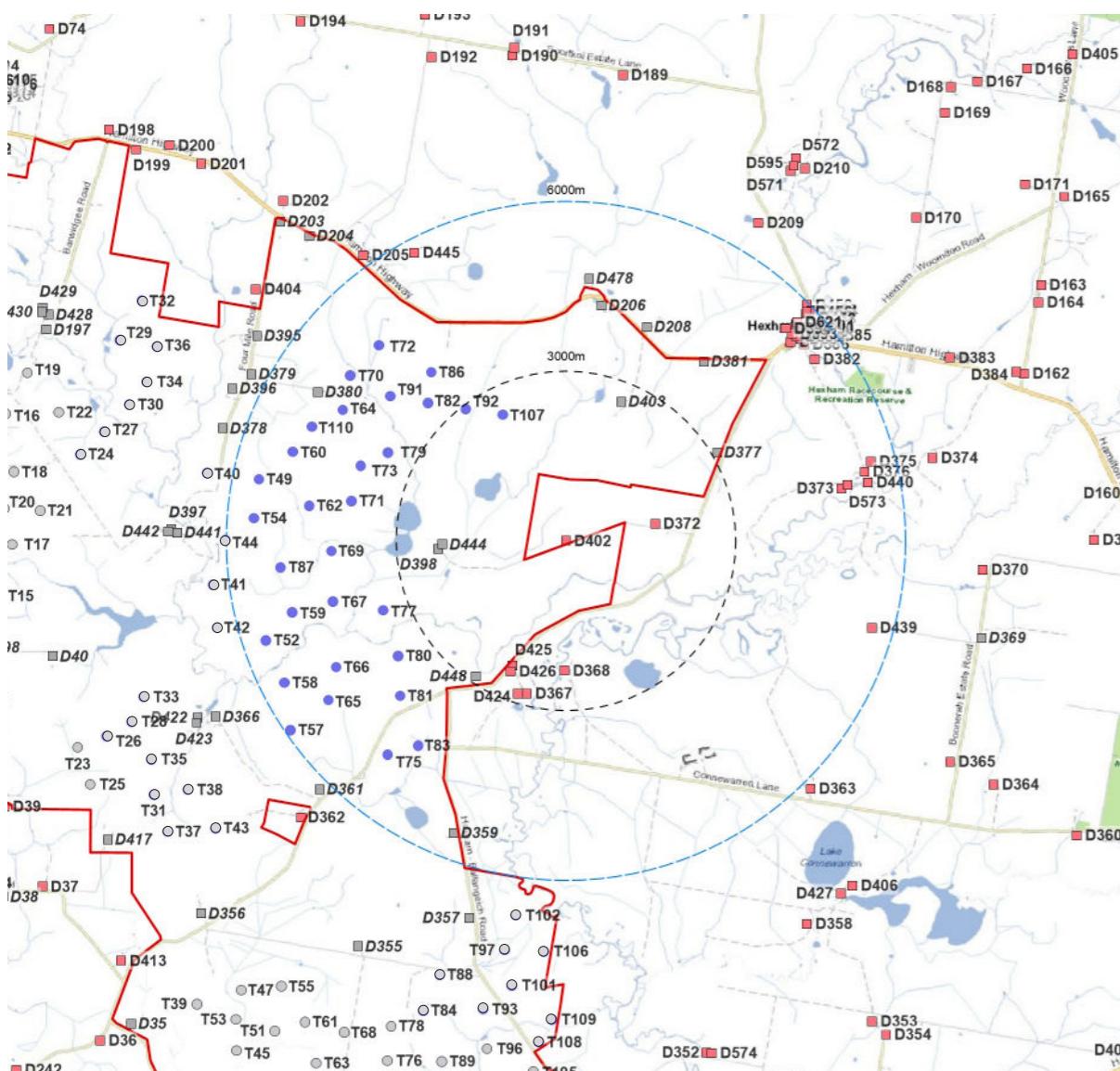
DWELLING D402			
Nearest proposed turbine (km):	2.50 km	Viewer Sensitivity:	Moderate
Number of proposed turbines within 6,000m of the dwelling:	30	Scenic Quality Rating:	Low
Number of potentially visible turbines (Based on topography alone)	106	Landscape Character Unit:	LCU01

Assessment Notes:

A site inspection was undertaken in May 2023 at this dwelling and a viewpoint was selected in consultation with the owner. The wire frame diagram prepared from the dwelling indicates all (106) turbines would theoretically be visible at hub height based on topography alone. The nearest turbine is located approximately 2.50 km away from the dwelling in the westerly direction. On inspection it was determined that the dwelling is surrounded by dense windbreak vegetation and farm outbuildings on the western side of the dwelling. It is likely that up to four (4) blade tips will be partially visible in up to 15 degrees of the viewshed. The majority of the turbines will be screened by existing vegetation and farm outbuildings. It is likely that the Project will have low impact on the existing scenic quality. The visual impact resulting from the Project has been rated as **Low**.

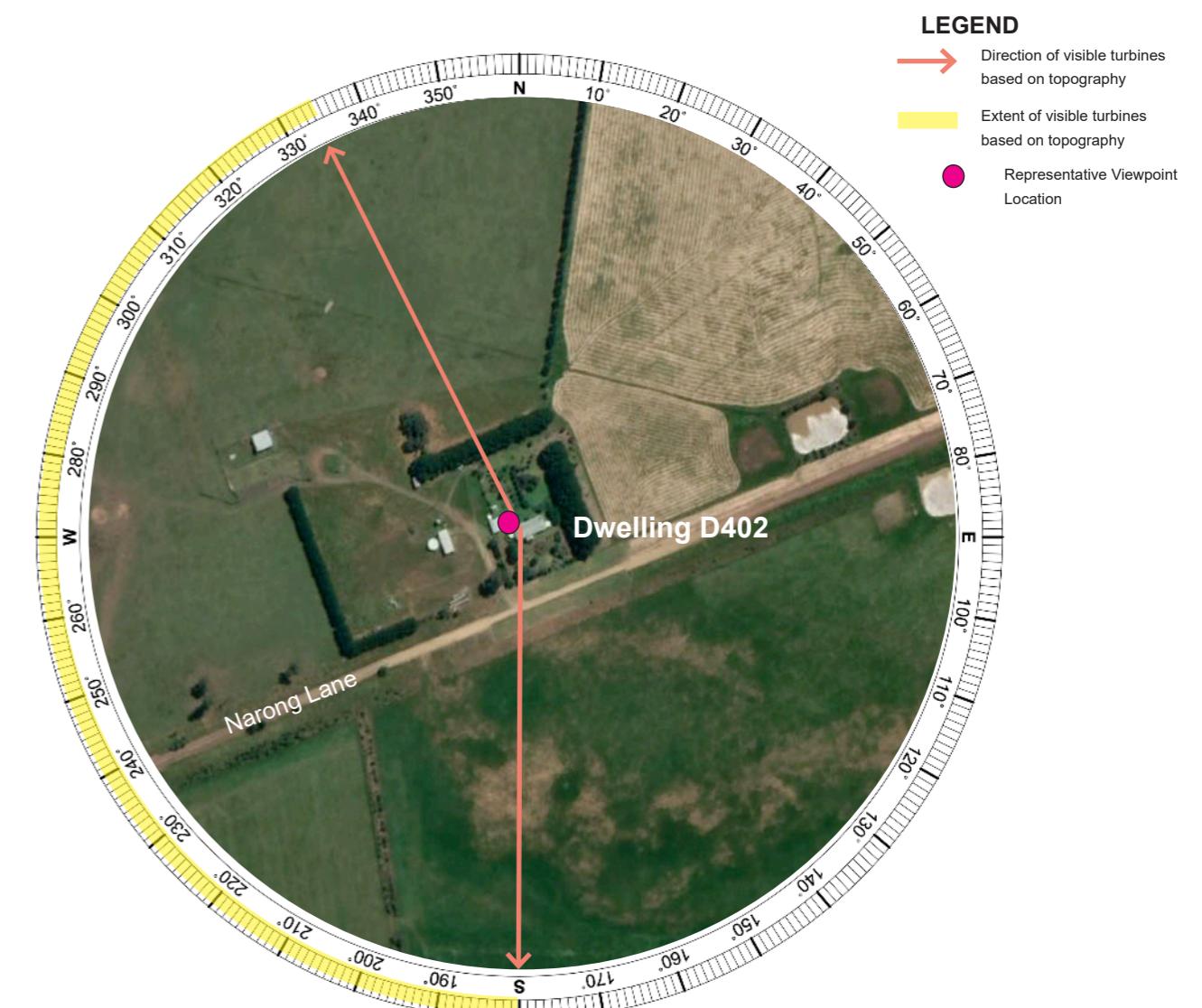
Mitigation Measures:

Existing vegetation will screen view to the turbines. Mitigation is not required.



LEGEND

- Turbine within 6,000 m (Based on Wire Frame Diagram)
- Turbine out of 6,000 m (Based on Wire Frame Diagram)
- Non-involved Dwelling
- Involved Dwelling
- 3,000 m from nearest turbine
- 6,000 m from nearest turbine



Aerial Image Source: Google Earth (November 2021)