

8.1 Introduction

The potential significance of visual impact resulting from the construction and operation of the Crookwell 3 wind farm would result primarily from the combination of the following factors:

- The visibility or extent to which the proposed wind farm structures would be visible from surrounding areas;
- The degree of visual contrast between the wind farm structures and the capability of the surrounding landscape to visually accommodate the wind farm;
- The category and type of situation from which people may view the wind farm (categories include residents or motorists);
- The distance between the view location and the wind farm;
- The potential number of people with a view toward the proposed wind farm from any one location;
- The duration of time people may view the wind farm from any static or dynamic view location; and
- The visual sensitivity of view locations surrounding the wind farm.

An overall determination of visual impact at each view location has also been assessed and determined against the criteria outlined in **Table 13** below:

Table 13 - View Location Assessment Criteria

| Criteria | Definition |
|---|---|
| Category of Viewer Static Dynamic | Residence Motorist or passenger |
| Number of Viewers High Moderate Low | >500 people per day 250 - 500 people per day 100 - 250 people per day |

| Criteria | Definition |
|-----------------------|---------------------|
| Very Low | <100 people per day |
| View Distance | |
| Distant | >20km |
| Long | 10km – 20km |
| Medium | 5 – 10km |
| Short | 1 – 5km |
| Very short | <1km |
| Period of View | |
| Long term | > 2 hours |
| Moderate term | 30 - 120 minutes |
| Short term | 10 – 30 minutes |
| Very Short Term | < 10 minutes |

Table 14 - Visibility Criteria Matrix

| Period of View | Distant and Long Distance | | | Medium Distance | | | Short Distance | | | Very Short Distance | | |
|-------------------------|---------------------------|---|----|-----------------|---|----|----------------|---|----|---------------------|---|----|
| | L/M | S | VS | L/M | S | VS | L/M | S | VS | L/M | S | VS |
| High No. of Viewers | M | L | L | H | M | M | H | H | M | H | H | H |
| Moderate No. of Viewers | L | L | L | M | M | L | H | M | M | H | H | M |
| Low No. of Viewers | L | L | L | M | L | L | M | M | L | H | M | L |
| Very Low No. of Viewers | L | L | L | L | L | L | M | L | L | M | M | L |

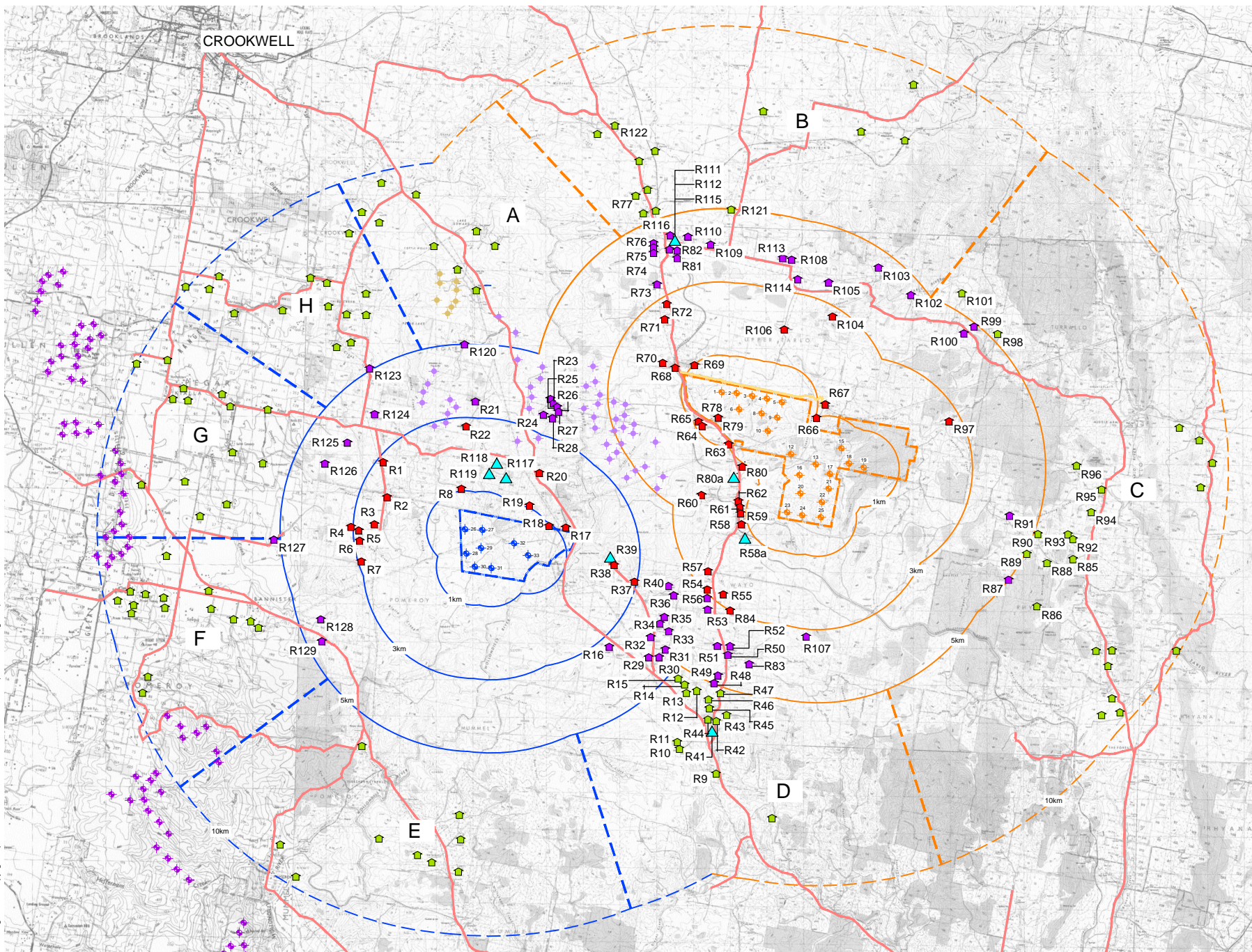
- **Period of View** L/M=Long to Moderate term, S=Short term , VS=Very Short term
- **Levels of visibility** L=low, M=medium and H=high

The visual impact criteria matrix outlined in **Table 14** is used **as a guide** to determine levels of visual impact. The determination of visual impact for each view location is also considered against other factors, which include the sensitivity of the view category and overall visibility of the wind farm from surrounding view locations. The general relationship between view category and its potential level of sensitivity is outlined in **Table 15**.

Table 15 – View Category Sensitivity

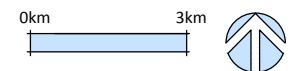
| View Category | Sensitivity |
|-----------------------------|----------------------------|
| Residential Dwelling | Highest Sensitivity |
| Pedestrians (recreational) | ▽ |
| Public Recreational Space | ▽ |
| Rural employment/farming | ▽ |
| Motorists | ▽ |
| Business (commercial) | ▽ |
| Industry | Lower Sensitivity |

Figure 17
Residential View Locations



Legend

- Residence - within 3km of proposed Crookwell 3 turbines
- Residence - between 3km and 5km of proposed Crookwell 3 turbines
- Residence - between 5km and 10km of proposed Crookwell 3 turbines
- ▲ Potential future or non-residential structure (included in Table 16 - Residential View Location Matrix)
- ◆ Proposed Crookwell 3 East Turbine
- ◆ Proposed Crookwell 3 South Turbine
- ◆ Approved Crookwell 2 Turbine
- ◆ Crookwell Turbine (Existing)
- ◆ Approved Gullen Range Turbine



CROOKWELL DEVELOPMENT
PTY LTD



CROOKWELL 3 WIND FARM

Base image source: Copyright Department of Lands Panoroma Avenue Balmurst 2795 (www.lands.nsw.gov.au)

8.2 Residential View Location Visibility Matrix

Table 16 presents the Visibility Matrix for the Crookwell 3 wind farm for residential view locations. Potential residential view locations are illustrated in **Figure 17**.

Table 16 – Residential View Location Matrix

| View location reference | Category of view location | View context | Distance to closest turbine Crookwell 3 South | Distance to closest turbine Crookwell 3 East | Relative number of people | Period of view | View location sensitivity | Visual Impact Crookwell 3 South | Visual Impact Crookwell 3 East |
|-------------------------|--------------------------------------|--|---|--|---------------------------|----------------|---------------------------|---------------------------------|--------------------------------|
| R1 | Residential Dwelling 'Evermore' | View east to south east toward Crookwell 3 South precinct as well as distant views toward turbines within the Crookwell East site. | 2.8 km | 9.5 km | Very Low | Long Term | High | Moderate to High | Low |
| R2 | Residential Dwelling 'Bendemere' | View east to south east toward Crookwell 3 South site as well as distant views toward turbines within the Crookwell 3 East site. | 2.3 km | 9.6 km | Very Low | Long Term | High | Moderate to High | Low |
| R3 | Residential Dwelling 'D'Ambrosio' | View east to south east toward Crookwell 3 South site as well as distant views toward turbines within the Crookwell East site. | 2.5 km | 10.2 km | Very Low | Long Term | High | Moderate to High | Low |
| R4 | Residential Dwelling | View east to south east toward Crookwell 3 South site as well as distant views toward turbines within the Crookwell 3 East site. | 3.1 km | 10.8 km | Very Low | Long Term | High | Moderate to High | Low |
| R5 | Residential | View east to south east toward Crookwell 3 | 2.9 km | 10.6 km | Very Low | Long | High | Moderate | Low |

Table 16 – Residential View Location Matrix

| View location reference | Category of view location | View context | Distance to closest turbine Crookwell 3 South | Distance to closest turbine Crookwell 3 East | Relative number of people | Period of view | View location sensitivity | Visual Impact Crookwell 3 South | Visual Impact Crookwell 3 East |
|-------------------------|-----------------------------------|--|---|--|---------------------------|----------------|---------------------------|---------------------------------|--------------------------------|
| | Dwelling | South site as well as distant views toward turbines within the Crookwell East site. | | | | Term | | to High | |
| R6 | Residential Dwelling | View east to south east toward Crookwell 3 South site as well as distant views toward turbines within the Crookwell East site. | 2.9 km | 10.7 km | Very Low | Long Term | High | Moderate to High | Low |
| R7 | Residential Dwelling 'Emohruo' | View east to south east toward Crookwell 3 South site as well as distant views toward turbines within the Crookwell East site. | 2.9 km | 10.9 km | Very Low | Long Term | High | Moderate to High | Low |
| R8 | Residential Dwelling 'Narangi' | View south toward Crookwell 3 South turbines as well as distant views west toward upper portions of Crookwell 3 East turbines. | 1.1 km | 7.8 km | Very Low | Long Term | High | High | Low |
| R9 | Residential Dwelling | Views north west to north east toward Crookwell 3 turbines are screened by tree cover and landform. | 7.9 km | 7.4 km | Very Low | Long Term | High | Nil | Nil |
| R10 | Residential | Views north west to north east toward | 6.7 km | 7.1 km | Very Low | Long | High | Low | Low |

Table 16 – Residential View Location Matrix

| View location reference | Category of view location | View context | Distance to closest turbine Crookwell 3 South | Distance to closest turbine Crookwell 3 East | Relative number of people | Period of view | View location sensitivity | Visual Impact Crookwell 3 South | Visual Impact Crookwell 3 East |
|-------------------------|---|--|---|--|---------------------------|----------------|---------------------------|---------------------------------|--------------------------------|
| | Dwelling 'Pine Ridge 1' | Crookwell 3 turbines are screened by tree cover and tree planting surrounding residential dwelling. | | | | Term | | | |
| R11 | Residential Dwelling 'Pine Ridge 2'' | Views north west to north east toward Crookwell 3 turbines are screened by tree cover and tree planting surrounding residential dwelling. | 6.5 km | 6.9 km | Very Low | Long Term | High | Low | Low |
| R12 | Residential Dwelling | Views north west to north east toward Crookwell 3 turbines are partially screened by scattered tree cover; however medium distance views will extend toward some turbines within each site, including views toward turbines on ridgelines. | 5.9 km | 5.5 km | Very Low | Long Term | High | Moderate | Moderate |
| R13 | Residential Dwelling | Views north west to north east toward Crookwell 3 turbines are partially screened by scattered tree cover; however medium distance views will extend toward some turbines within each site. | 5.7 km | 5.6 km | Very Low | Long Term | High | Moderate | Moderate |

Table 16 – Residential View Location Matrix

| View location reference | Category of view location | View context | Distance to closest turbine Crookwell 3 South | Distance to closest turbine Crookwell 3 East | Relative number of people | Period of view | View location sensitivity | Visual Impact Crookwell 3 South | Visual Impact Crookwell 3 East |
|-------------------------|--|---|---|--|---------------------------|----------------|---------------------------|---------------------------------|--------------------------------|
| R14 | Residential Dwelling 'Foxground Hayeselton' | Views north west to north east toward Crookwell 3 turbines are partially screened by scattered tree cover; however medium distance views will extend toward some turbines within each site. | 5.5km | 5.5 km | Very Low | Long Term | High | Moderate | Moderate |
| R15 | Residential Dwelling | Views north west to north east toward Crookwell 3 turbines are partially screened by scattered tree cover; however medium distance views will extend toward some turbines within each site. | 5.3 km | 5.4k m | Very Low | Long Term | High | Moderate | Moderate |
| R16 | Residential Dwelling 'Calamondah' | Views north west to north east toward Crookwell 3 turbines are partially screened by scattered tree cover including tree planting surrounding residential dwelling. | 3.3 km | 6.1 km | Very Low | Long Term | High | Moderate | Low |
| R17 | Residential Dwelling 'Wollondilly' (1) (Crookwell 3 | Views west and east toward Crookwell 3 turbines are generally screened by tree cover and planting surrounding residential dwelling. | 1.3 km | 6.0 km | Very Low | Long Term | High | Nil | Nil |

Table 16 – Residential View Location Matrix

| View location reference | Category of view location | View context | Distance to closest turbine Crookwell 3 South | Distance to closest turbine Crookwell 3 East | Relative number of people | Period of view | View location sensitivity | Visual Impact Crookwell 3 South | Visual Impact Crookwell 3 East |
|-------------------------|--|---|---|--|---------------------------|----------------|---------------------------|---------------------------------|--------------------------------|
| | Associated landowner) | | | | | | | | |
| R18 | Residential Dwelling 'Wollondilly' (2) (Crookwell 3 Associated landowner) | Views west and east toward Crookwell 3 turbines are generally screened by tree cover and planting surrounding residential dwelling. | 1 km | 5.9 km | Very Low | Long Term | High | Nil | Nil |
| R19 | Residential Dwelling 'Wombat Hollow' | District views from hilltop location, including views south and west toward the Crookwell 3 South and East turbines. | 1.1 km | 6.1 km | Very Low | Long Term | High | High | Low |
| R20 | Residential Dwelling 'Normaroo' | District views from hilltop location, including views west toward the Crookwell 3 East turbines. View west from residence partially screened by tree planting within and alongside property boundary. | 2 km | 5.5 km | Very Low | Long Term | High | Low | Moderate |

Table 16 – Residential View Location Matrix

| View location reference | Category of view location | View context | Distance to closest turbine Crookwell 3 South | Distance to closest turbine Crookwell 3 East | Relative number of people | Period of view | View location sensitivity | Visual Impact Crookwell 3 South | Visual Impact Crookwell 3 East |
|-------------------------|--|---|---|--|---------------------------|----------------|---------------------------|---------------------------------|--------------------------------|
| R21 | Residential Dwelling 'Ahgunyah' (Crookwell 2 Associated landowner) | View south and west toward Crookwell 3 South and East turbines are partially screened by vegetation. | 3.5 km | 6.7 km | Very Low | Long Term | High | Low | Low |
| R22 | Residential Dwelling 'Minnamurra' (Crookwell 2 Associated landowner) | View south and west toward Crookwell 3 South and East turbines partially screened by vegetation. | 2.8 km | 7 km | Very Low | Long Term | High | Low | Low |
| R23 | Residential Dwelling 'Gundwringa' (Crookwell 2 Associated landowner) | Views south to south west and east toward the Crookwell 3 turbines are largely screened by scattered tree cover. Landform will also tend to restrict any available views toward upper portions of turbine structures. | 4 km | 4.7 km | Very Low | Long Term | High | Low | Low |

Table 16 – Residential View Location Matrix

| View location reference | Category of view location | View context | Distance to closest turbine Crookwell 3 South | Distance to closest turbine Crookwell 3 East | Relative number of people | Period of view | View location sensitivity | Visual Impact Crookwell 3 South | Visual Impact Crookwell 3 East |
|-------------------------|--|---|---|--|---------------------------|----------------|---------------------------|---------------------------------|--------------------------------|
| | landowner) | | | | | | | | |
| R24 | Residential Dwelling 'Savannah' (Crookwell 2 Associated landowner) | Views south to south west and east toward the Crookwell 3 turbines are largely screened by scattered tree cover. Landform will also tend to restrict any available views toward upper portions of turbine structures. | 3.5 km | 4.9 km | Very Low | Long Term | High | Low | Low |
| R25 | Residential Dwelling Cottage 1 'Gundowringa' | Views south to south west and east toward the Crookwell 3 turbines are largely screened by scattered tree cover. Landform will also tend to restrict any available views toward upper portions of turbine structures. | 3.9 km | 4.5 km | Very Low | Long Term | High | Low | Low |
| R26 | Residential Dwelling Cottage 2 'Gundowringa' | Views south to south west and east toward the Crookwell 3 turbines are largely screened by scattered tree cover. Landform will also tend to restrict any available views toward upper portions of turbine structures. | 4.0 km | 4.6 km | Very Low | Long Term | High | Low | Low |
| R27 | Residential | Views south to south west and east toward | 3.8 km | 4.5 km | Very Low | Long | High | Low | Low |

Table 16 – Residential View Location Matrix

| View location reference | Category of view location | View context | Distance to closest turbine Crookwell 3 South | Distance to closest turbine Crookwell 3 East | Relative number of people | Period of view | View location sensitivity | Visual Impact Crookwell 3 South | Visual Impact Crookwell 3 East |
|-------------------------|--|---|---|--|---------------------------|----------------|---------------------------|---------------------------------|--------------------------------|
| | Dwelling Cottage 3 'Gundowringa' | the Crookwell 3 turbines are largely screened by scattered tree cover. Landform will also tend to restrict any available views toward upper portions of turbine structures. | | | | Term | | | |
| R28 | Residential Dwelling Cottage 4 'Gundowringa' | Views south to south west and east toward the Crookwell 3 turbines are largely screened by scattered tree cover. Landform will also tend to restrict any available views toward upper portions of turbine structures. | 3.6 km | 4.8 km | Very Low | Long Term | High | Low | Low |
| R29 | Residential Dwelling | Views north west to north east toward Crookwell 3 turbines partially screened by tree cover and planting surrounding residential dwelling. | 4.3 km | 5.5 km | Very Low | Long Term | High | Low | Low |
| R30 | Residential Dwelling 'Airam' | Views north west to north east toward Crookwell 3 turbines partially screened by tree cover and planting surrounding residential dwelling. | 4.5 km | 5.3 km | Very Low | Long Term | High | Nil | Low |
| R31 | Residential Dwelling | Views north west to north east toward Crookwell 3 turbines partially screened by | 4.6 km | 5.0 km | Very Low | Long Term | High | Nil | Low |

Table 16 – Residential View Location Matrix

| View location reference | Category of view location | View context | Distance to closest turbine Crookwell 3 South | Distance to closest turbine Crookwell 3 East | Relative number of people | Period of view | View location sensitivity | Visual Impact Crookwell 3 South | Visual Impact Crookwell 3 East |
|-------------------------|--|--|---|--|---------------------------|----------------|---------------------------|---------------------------------|--------------------------------|
| | 'Youanmite' | tree cover and planting surrounding residential dwelling. | | | | | | | |
| R32 | Residential Dwelling | Views north west to north east toward Crookwell 3 turbines partially screened by tree cover and planting surrounding residential dwelling. | 4.0 km | 5.0 km | Very Low | Long Term | High | Nil | Low |
| R33 | Residential Dwelling 'Whispering Pines' | Views north west to north east toward Crookwell 3 turbines partially screened by tree cover and planting surrounding residential dwelling. | 4.4 km | 4.6 km | Very Low | Long Term | High | Nil | Low |
| R34 | Residential Dwelling 'Kooloona' | Views north west to north east toward Crookwell 3 turbines partially screened by tree cover and planting surrounding residential dwelling. | 4.1 km | 4.6 km | Very Low | Long Term | High | Nil | Low |
| R35 | Residential Dwelling | Views north west to north east toward Crookwell 3 turbines partially screened by tree cover and planting surrounding | 4.1 km | 4.4 km | Very Low | Long Term | High | Nil | Low |

Table 16 – Residential View Location Matrix

| View location reference | Category of view location | View context | Distance to closest turbine Crookwell 3 South | Distance to closest turbine Crookwell 3 East | Relative number of people | Period of view | View location sensitivity | Visual Impact Crookwell 3 South | Visual Impact Crookwell 3 East |
|-------------------------|--------------------------------------|--|---|--|---------------------------|----------------|---------------------------|---------------------------------|--------------------------------|
| | 'Clydesdale' | residential dwelling. | | | | | | | |
| R36 | Residential Dwelling 'Tyrendarra' | Views north west to north east toward Crookwell 3 turbines partially screened by tree cover and planting surrounding residential dwelling. | 4.1 km | 3.8 km | Very Low | Long Term | High | Low to Moderate | Low to Moderate |
| R37 | Residential Dwelling 'Carinya' | Views north west to north east toward Crookwell 3 turbines partially screened by tree cover and planting surrounding residential dwelling. | 3.0 km | 4.6 km | Very Low | Long Term | High | Low to Moderate | Low to Moderate |
| R38 | Residential Dwelling | Views north west to north east toward Crookwell 3 turbines are partially screened by tree cover and planting surrounding residential dwelling. | 2.4 km | 5.0 km | Very Low | Long Term | High | Low | Low |
| R39 | St Stephen's Pejar Anglican Church | Views north west to north east toward Crookwell 3 turbines are partially screened by tree cover and planting surrounding residential dwelling. | 2.3 km | 5.1 km | Very Low | Long Term | High | Low | Low |
| R40 | Residential | Views north west to north east toward | 4.0 km | 3.8 km | Very Low | Long | High | Low to | Low to |

Table 16 – Residential View Location Matrix

| View location reference | Category of view location | View context | Distance to closest turbine Crookwell 3 South | Distance to closest turbine Crookwell 3 East | Relative number of people | Period of view | View location sensitivity | Visual Impact Crookwell 3 South | Visual Impact Crookwell 3 East |
|-------------------------|--------------------------------------|--|---|--|---------------------------|----------------|---------------------------|---------------------------------|--------------------------------|
| | Dwelling 'Tyrendarra' | Crookwell 3 turbines partially screened by tree cover and planting surrounding residential dwelling. | | | | Term | | Moderate | Moderate |
| R41 | Middle Arm Fire Brigade Wayo Station | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| R42 | Residential Dwelling | View north and north west toward Crookwell 3 turbines are partially screened by scattered tree cover and planting surrounding residential dwelling. | 6.9 km | 6.0 km | Very Low | Long Term | High | Nil | Low |
| R43 | Residential Dwelling 'Rullawayo' | View north west toward Crookwell 3 South partially screened by scattered tree cover. Views north extend toward Crookwell East site including views toward turbines on ridgeline and skyline. | 7.0 km | 5.8 km | Very Low | Long Term | High | Low | Moderate to High |
| R44 | Residential Dwelling | View north and north west toward Crookwell 3 turbines are partially screened by scattered tree cover and planting surrounding residential dwelling. | 6.7 km | 6.0 km | Very Low | Long Term | High | Nil | Low |

Table 16 – Residential View Location Matrix

| View location reference | Category of view location | View context | Distance to closest turbine Crookwell 3 South | Distance to closest turbine Crookwell 3 East | Relative number of people | Period of view | View location sensitivity | Visual Impact Crookwell 3 South | Visual Impact Crookwell 3 East |
|-------------------------|--------------------------------------|---|---|--|---------------------------|----------------|---------------------------|---------------------------------|--------------------------------|
| R45 | Residential Dwelling | View north and north west toward Crookwell 3 turbines are partially screened by scattered tree cover and planting surrounding residential dwelling. | 6.3 km | 5.6 km | Very Low | Long Term | High | Nil | Low |
| R46 | Residential Dwelling 'Limokee' | View north and north west toward Crookwell 3 turbines are partially screened by scattered tree cover and planting surrounding residential dwelling. | 6.3 km | 5.5 km | Very Low | Long Term | High | Low | Low |
| R47 | Residential Dwelling | View north west toward Crookwell 3 turbines are partially screened by scattered tree cover. Views extend north toward | 6.5 km | 5.3 km | Very Low | Long Term | High | Low | Low to Moderate |
| R48 | Residential Dwelling 'Rolling Hills' | View north west toward Crookwell 3 South are generally screened by landform and vegetation. Views extend toward the Crookwell 3 East turbines. | 6.2 km | 5.1 km | Very Low | Long Term | High | Low | Low to Moderate |
| R49 | Under construction | View north west toward Crookwell 3 South are generally screened by landform and vegetation. Views extend toward the | 6.1 km | 4.8 km | Very Low | Long Term | High | Low | Low to Moderate |

Table 16 – Residential View Location Matrix

| View location reference | Category of view location | View context | Distance to closest turbine Crookwell 3 South | Distance to closest turbine Crookwell 3 East | Relative number of people | Period of view | View location sensitivity | Visual Impact Crookwell 3 South | Visual Impact Crookwell 3 East |
|-------------------------|--------------------------------------|---|---|--|---------------------------|----------------|---------------------------|---------------------------------|--------------------------------|
| | | Crookwell 3 East turbines. | | | | | | | |
| R50 | Residential Dwelling | Views north and north west toward the Crookwell 3 turbines are partially screened by tree cover and planting surrounding the residential dwelling. | 6.1 km | 4.2 km | Very Low | Long Term | High | Low | Low to Moderate |
| R51 | Residential Dwelling | Views north west toward the Crookwell 3 South site are partially screened by tree cover and landform. Views extend north east toward the Crookwell 3 East turbines. | 5.7 km | 4.1 km | Very Low | Long Term | High | Low | Low to Moderate |
| R52 | Residential Dwelling 'Mount Wayo' | Views north and north west toward the Crookwell 3 turbines are partially screened by tree cover and planting surrounding the residential dwelling. | 6.0 km | 4.0 km | Very Low | Long Term | High | Low | Low to Moderate |
| R53 | Residential Dwelling | Views west toward Crookwell 3 South are generally screened by landform and tree cover. Views north to north east extend toward Crookwell 3 East turbines. | 5.1 km | 3.4 km | Very Low | Long Term | High | Low | High |
| R54 | Residential | Views west toward Crookwell 3 South are | 5.0 km | 3.0 km | Very Low | Long | High | Low | High |

Table 16 – Residential View Location Matrix

| View location reference | Category of view location | View context | Distance to closest turbine Crookwell 3 South | Distance to closest turbine Crookwell 3 East | Relative number of people | Period of view | View location sensitivity | Visual Impact Crookwell 3 South | Visual Impact Crookwell 3 East |
|-------------------------|-----------------------------------|--|---|--|---------------------------|----------------|---------------------------|---------------------------------|--------------------------------|
| | Dwelling 'Ginmara' | generally screened by landform and tree cover. Views north to north east extend toward Crookwell 3 East turbines. | | | | Term | | | |
| R55 | Residential Dwelling | Views west toward Crookwell 3 South are generally screened by landform and tree cover. Views north to north east extend toward Crookwell 3 East turbines. | 5.4 km | 2.8 km | Very Low | Long Term | High | Low | High |
| R56 | Residential Dwelling 'Mathlie' | Views west toward Crookwell 3 South are generally screened by landform and tree cover. Views north to north east extend toward Crookwell 3 East turbines. | 5.0 km | 3.2 km | Very Low | Long Term | High | Low | High |
| R57 | Residential Dwelling 'Kenrich' | Views west toward Crookwell 3 South are generally screened by landform and tree cover. Views north to north east extend toward Crookwell 3 East turbines. | 5.0 km | 2.7 km | Very Low | Long Term | High | Low | High |
| R58 | Residential dwelling | Views west toward Crookwell 3 South turbines are largely screened by landform and tree cover. Views north through to east extend toward the Crookwell 3 East | 5.9 km | 1.3 km | Very Low | Long Term | High | Nil | High |

Table 16 – Residential View Location Matrix

| View location reference | Category of view location | View context | Distance to closest turbine Crookwell 3 South | Distance to closest turbine Crookwell 3 East | Relative number of people | Period of view | View location sensitivity | Visual Impact Crookwell 3 South | Visual Impact Crookwell 3 East |
|-------------------------|--|---|---|--|---------------------------|----------------|---------------------------|---------------------------------|--------------------------------|
| | | turbines. | | | | | | | |
| R58a | Non residential dwelling - Woolshed | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| R59 | Residential Dwelling | Views west toward Crookwell 3 South turbines are largely screened by landform and tree cover. Views north through to east extend toward the Crookwell 3 East turbines. | 5.9 km | 1.3 km | Very Low | Long Term | High | Nil | High |
| R60 | Residential Dwelling 'Pejar Park' | Views west toward Crookwell 3 South turbines are largely screened by landform and tree cover. Views north through to east extend toward the Crookwell 3 East turbines although partial screening is likely by tree planting within property | 5.0 km | 2.4 km | Very Low | Long Term | High | Nil | Moderate |
| R61 | Residential Dwelling | View west toward Crookwell 3 South turbines are largely screened by landform and tree cover. Views north through to east | 5.9 km | 1.3 km | Very Low | Long Term | High | Nil | Moderate to High |

Table 16 – Residential View Location Matrix

| View location reference | Category of view location | View context | Distance to closest turbine Crookwell 3 South | Distance to closest turbine Crookwell 3 East | Relative number of people | Period of view | View location sensitivity | Visual Impact Crookwell 3 South | Visual Impact Crookwell 3 East |
|-------------------------|--|---|---|--|---------------------------|----------------|---------------------------|---------------------------------|--------------------------------|
| | 'Wallarooobie' | extend toward the Crookwell 3 East turbines. | | | | | | | |
| R62 | Residential Dwelling 'Cottonwood' | View west toward Crookwell 3 South turbines are largely screened by landform and tree cover. Views north through to east extend toward the Crookwell 3 East turbines. | 5.9 km | 1.3 km | Very Low | Long Term | High | Nil | Moderate to High |
| R63 | Residential Dwelling 'Rocky Corner' | Views south west toward Crookwell 3 South are largely screened by landform and vegetation including tree planting surrounding residential dwelling. Partial views north east to south east extend toward Crookwell 3 East turbines. | 6.3 km | 1.1km | Very Low | Long Term | High | Nil | High |
| R64 | Residential Dwelling 'Valdarman Hill' | Views south west toward Crookwell 3 South are largely screened by landform and vegetation. Views north east to south east extend toward Crookwell 3 East turbines. | 5.9 km | 1.1 km | Very Low | Long Term | High | Nil | High |
| R65 | Residential | Views south west toward Crookwell 3 South are largely screened by landform and | 5.9 km | 1.0 km | Very Low | Long | High | Nil | High |

Table 16 – Residential View Location Matrix

| View location reference | Category of view location | View context | Distance to closest turbine Crookwell 3 South | Distance to closest turbine Crookwell 3 East | Relative number of people | Period of view | View location sensitivity | Visual Impact Crookwell 3 South | Visual Impact Crookwell 3 East |
|-------------------------|---|--|---|--|---------------------------|----------------|---------------------------|---------------------------------|--------------------------------|
| | Dwelling 'Windalee' | vegetation. Views north east to south east extend toward Crookwell 3 East turbines. | | | | Term | | | |
| R66 | Residential Dwelling 'Little Vale' (1) | Views south west toward Crookwell 3 South are largely screened by landform and vegetation. Views east to south east extend toward Crookwell 3 East turbines. | 8.7 km | 1.0 km | Very Low | Long Term | High | Nil | High |
| R67 | Residential Dwelling 'Little Vale' (2) | Views south west toward Crookwell 3 South are largely screened by landform and vegetation. Partial views east to south east extend toward Crookwell 3 East turbines. | 9.1 km | 1.2 km | Very Low | Long Term | High | Nil | Moderate |
| R68 | Residential Dwelling 'Meadowvale' (Crookwell 2 Associated Resident) | Views south west toward Crookwell 3 South are largely screened by landform and vegetation. Views east to south east extend toward Crookwell 3 East turbines. | 6.5 km | 1.4 km | Very Low | Long Term | High | Nil | High |

Table 16 – Residential View Location Matrix

| View location reference | Category of view location | View context | Distance to closest turbine Crookwell 3 South | Distance to closest turbine Crookwell 3 East | Relative number of people | Period of view | View location sensitivity | Visual Impact Crookwell 3 South | Visual Impact Crookwell 3 East |
|-------------------------|-------------------------------------|--|---|--|---------------------------|----------------|---------------------------|---------------------------------|--------------------------------|
| R69 | Residential Dwelling 'Atholvale' | Views south west toward Crookwell 3 South are largely screened by landform and vegetation. Views east to south east extend toward Crookwell 3 East turbines. | 6.9 km | 1.0 km | Very Low | Long Term | High | Nil | Moderate to High |
| R70 | Residential Dwelling 'Snowgums' | Views south west toward Crookwell 3 South are largely screened by landform and vegetation. Views east to south east extend toward Crookwell 3 East turbines. | 6.4 km | 1.8 km | Very Low | Long Term | High | Nil | Low |
| R71 | Residential Dwelling 'Lyncross' | Views south to south west toward Crookwell South and East turbines are largely screened by tree cover and planting surrounding residential dwelling. | 7.3 km | 2.5 km | Very Low | Long Term | High | Nil | Low |
| R72 | Residential Dwelling | Views south to south west toward Crookwell South and East turbines are largely screened by tree cover and planting surrounding residential dwelling. | 7.9 km | 2.8 km | Very Low | Long Term | High | Nil | Low |
| R73 | Residential Dwelling | Views south to south west toward Crookwell South and East turbines are largely screened by tree cover and planting | 8.2 km | 3.4 km | Very Low | Long Term | High | Nil | Low |

Table 16 – Residential View Location Matrix

| View location reference | Category of view location | View context | Distance to closest turbine Crookwell 3 South | Distance to closest turbine Crookwell 3 East | Relative number of people | Period of view | View location sensitivity | Visual Impact Crookwell 3 South | Visual Impact Crookwell 3 East |
|-------------------------|------------------------------------|--|---|--|---------------------------|----------------|---------------------------|---------------------------------|--------------------------------|
| | 'Highlands' | surrounding residential dwelling. | | | | | | | |
| R74 | Residential Dwelling 'Rossllyn' | Views south to south west toward Crookwell South and East turbines are screened by tree cover and planting surrounding residential dwelling. | 8.9 km | 4.2 km | Very Low | Long Term | High | Nil | Nil |
| R75 | Residential Dwelling 'Rossllyn' | Views south to south west toward Crookwell South and East turbines are screened by tree cover and planting surrounding residential dwelling. | 9.0 km | 4.4 km | Very Low | Long Term | High | Nil | Nil |
| R76 | Residential Dwelling 'Rossllyn' | Views south to south west toward Crookwell South and East turbines are screened by tree cover and planting surrounding residential dwelling. | 9.1 km | 4.5 km | Very Low | Long Term | High | Nil | Nil |
| R77 | Residential Dwelling 'Bellevue' | Views south toward Crookwell South and East turbines are screened by tree cover and planting surrounding residential | 10.0 km | 5.8 km | Very Low | Long Term | High | Nil | Nil |

Table 16 – Residential View Location Matrix

| View location reference | Category of view location | View context | Distance to closest turbine Crookwell 3 South | Distance to closest turbine Crookwell 3 East | Relative number of people | Period of view | View location sensitivity | Visual Impact Crookwell 3 South | Visual Impact Crookwell 3 East |
|-------------------------|--|--|---|--|---------------------------|----------------|---------------------------|---------------------------------|--------------------------------|
| | Park' | dwelling. | | | | | | | |
| R78 | Residential Dwelling 'Leeston' (Crookwell 3 Associated Resident) | Views south west toward Crookwell 3 South are largely screened by landform and vegetation as well as planting surrounding residential dwelling. Views from the residence toward the majority of the Crookwell 3 East turbines are largely screened by windbreak tree planting to the north and north east of the dwelling. | 6.4 km | 620 m | Very Low | Long Term | High | Nil | Low |
| R79 | Residential Dwelling 'Leeston' (Crookwell 3 Associated Resident) | Views south west toward Crookwell 3 South are largely screened by landform and vegetation as well as planting surrounding residential dwelling. Views from the residence toward the majority of the Crookwell 3 East turbines are largely screened by tree planting surrounding the dwelling. | 6.4 km | 620 m | Very Low | Long Term | High | Nil | Low |
| R80 | Residential Dwelling | Views south west toward Crookwell 3 South are largely screened by landform and vegetation as well as planting surrounding | 6.3 km | 1.4 km | Very Low | Long Term | High | Nil | Low |

Table 16 – Residential View Location Matrix

| View location reference | Category of view location | View context | Distance to closest turbine Crookwell 3 South | Distance to closest turbine Crookwell 3 East | Relative number of people | Period of view | View location sensitivity | Visual Impact Crookwell 3 South | Visual Impact Crookwell 3 East |
|-------------------------|--|---|---|--|---------------------------|----------------|---------------------------|---------------------------------|--------------------------------|
| | 'Hillview Park' (Crookwell 3 Associated Resident) | residential dwelling. | | | | | | | |
| R80a | (Church) Potential future residential | Views south west toward the Crookwell 3 South site are screened by landform and vegetation as well as planting surrounding the Church. Views extend east toward partial and filtered views of wind turbines within the Crookwell East site. | 6.0 km | 1.7 km | Very Low | Long Term | High | Nil | Moderate |
| R81 | Residential Dwelling 'Rosslyn' | Views south west toward Crookwell South site are screened by landform and vegetation as well as planting surrounding residence. Views south toward Crookwell 3 East are partially screened by tree shelter planting to the south of the dwelling. | 8.9 km | 3.8 km | Very Low | Long Term | High | Nil | Low |
| R82 | Residential Dwelling 'Rosslyn' | Views south west toward Crookwell South site are screened by landform and vegetation as well as planting surrounding residence. Views south toward Crookwell 3 | 9.3 km | 4.0 km | Very Low | Long Term | High | Nil | Low |

Table 16 – Residential View Location Matrix

| View location reference | Category of view location | View context | Distance to closest turbine Crookwell 3 South | Distance to closest turbine Crookwell 3 East | Relative number of people | Period of view | View location sensitivity | Visual Impact Crookwell 3 South | Visual Impact Crookwell 3 East |
|-------------------------|--|--|---|--|---------------------------|----------------|---------------------------|---------------------------------|--------------------------------|
| | | East are partially screened by tree shelter planting to the south of the dwelling. | | | | | | | |
| R83 | Residential Dwelling 'Trappers Folly' | View north toward Crookwell 3 East turbines with partial screening toward Crookwell South site. | 6.7 km | 4.3 km | Very Low | Long Term | High | Low | High |
| R84 | Residential Dwelling 'Nierrina Heights' | View north toward Crookwell 3 East turbines with partial screening toward Crookwell South site. | 5.7 km | 3.1 km | Very Low | Long Term | High | Low | High |
| R85 | Residential Dwelling 'The Peak' | View west toward the Crookwell 3 turbines is generally blocked by a combination of landform and woodland vegetation. | 15 km | 6.3 km | Very Low | Long Term | High | Nil | Nil |
| R86 | Residential Dwelling | View west toward the Crookwell 3 turbines is generally blocked by a combination of landform and woodland vegetation. | 14.0 km | 6.1 km | Very Low | Long Term | High | Nil | Nil |

Table 16 – Residential View Location Matrix

| View location reference | Category of view location | View context | Distance to closest turbine Crookwell 3 South | Distance to closest turbine Crookwell 3 East | Relative number of people | Period of view | View location sensitivity | Visual Impact Crookwell 3 South | Visual Impact Crookwell 3 East |
|-------------------------|---|---|---|--|---------------------------|----------------|---------------------------|---------------------------------|--------------------------------|
| R87 | Residential Dwelling 'Grey Wood' | View west toward the Crookwell 3 East turbines is generally blocked by a combination of landform and woodland vegetation. | 13.1 km | 5.0 km | Very Low | Long Term | High | Nil | Nil |
| R88 | Residential Dwelling 'Ghost Gum Gully' | View west toward the Crookwell 3 East turbines is generally blocked by a combination of landform and woodland vegetation. | 14.2 km | 5.6 km | Very Low | Long Term | High | Nil | Nil |
| R89 | Residential Dwelling 'Windvale' | View west toward the Crookwell 3 East turbines is generally blocked by a combination of landform and woodland vegetation. | 13.6 km | 5.0 km | Very Low | Long Term | High | Nil | Nil |
| R90 | Residential Dwelling 'Glenwood Park' | View west toward the Crookwell 3 East turbines is generally blocked by a combination of landform and woodland vegetation. | 13.9 km | 5.1 km | Very Low | Long Term | High | Nil | Nil |
| R91 | Residential | Views west toward the Crookwell 3 turbines are blocked by a combination of landform | 13.2 km | 4.2 km | Very Low | Long | High | Nil | Nil |

Table 16 – Residential View Location Matrix

| View location reference | Category of view location | View context | Distance to closest turbine Crookwell 3 South | Distance to closest turbine Crookwell 3 East | Relative number of people | Period of view | View location sensitivity | Visual Impact Crookwell 3 South | Visual Impact Crookwell 3 East |
|-------------------------|-------------------------------------|---|---|--|---------------------------|----------------|---------------------------|---------------------------------|--------------------------------|
| | Dwelling | and timbered areas. | | | | Term | | | |
| R92 | Residential Dwelling | View west toward the Crookwell 3 East turbines is generally blocked by a combination of landform and woodland vegetation. | 14.9 km | 6.9 km | Very Low | Long Term | High | Nil | Nil |
| R93 | Residential Dwelling 'Pearces Hill' | View west toward the Crookwell 3 East turbines is generally blocked by a combination of landform and woodland vegetation. | 14.8 km | 5.9 km | Very Low | Long Term | High | Nil | Nil |
| R94 | Residential Dwelling | View west toward the Crookwell 3 East turbines is generally blocked by a combination of landform and woodland vegetation. | 15.4 km | 6.3 km | Very Low | Long Term | High | Nil | Nil |
| R95 | Residential Dwelling | View west toward the Crookwell 3 East turbines is generally blocked by a combination of landform and woodland vegetation. | 15.8 km | 6.5 km | Very Low | Long Term | High | Nil | Nil |

Table 16 – Residential View Location Matrix

| View location reference | Category of view location | View context | Distance to closest turbine Crookwell 3 South | Distance to closest turbine Crookwell 3 East | Relative number of people | Period of view | View location sensitivity | Visual Impact Crookwell 3 South | Visual Impact Crookwell 3 East |
|-------------------------|--|--|---|--|---------------------------|----------------|---------------------------|---------------------------------|--------------------------------|
| R96 | Residential Dwelling | View west toward the Crookwell 3 East turbines is generally blocked by a combination of landform and woodland vegetation. | 15.2 km | 5.8 km | Very Low | Long Term | High | Nil | Nil |
| R97 | Residential Dwelling | View south west toward Crookwell 3 South turbines is screened by landform and timbered areas. View extends toward turbines within the Crookwell East site. | 12.0 km | 2.6 km | Very Low | Long Term | High | Nil | Low to Moderate |
| R98 | Residential Dwelling 'Daramalar' | View south west toward the Crookwell 3 East turbines is generally blocked by a combination of landform and woodland vegetation. | 14.2 km | 5.3 km | Very Low | Long Term | High | Nil | Nil |
| R99 | Residential Dwelling 'Mountain Ash' | View south west toward the Crookwell 3 East turbines is generally blocked by a combination of landform and woodland vegetation. | 13.6 km | 4.9 km | Very Low | Long Term | High | Nil | Nil |
| R100 | Residential Dwelling | View south west toward the Crookwell 3 East turbines is generally blocked by a | 13.4 km | 4.6 km | Very Low | Long Term | High | Nil | Nil |

Table 16 – Residential View Location Matrix

| View location reference | Category of view location | View context | Distance to closest turbine Crookwell 3 South | Distance to closest turbine Crookwell 3 East | Relative number of people | Period of view | View location sensitivity | Visual Impact Crookwell 3 South | Visual Impact Crookwell 3 East |
|-------------------------|---|--|---|--|---------------------------|----------------|---------------------------|---------------------------------|--------------------------------|
| | 'Greenways' | combination of landform and woodland vegetation. | | | | | | | |
| R101 | Residential Dwelling 'Hetherington Glen' | View south west toward the Crookwell 3 East turbines is generally blocked by a combination of landform and woodland vegetation. | 13.8 km | 5.4 km | Very Low | Long Term | High | Nil | Nil |
| R102 | Residential Dwelling 'Holmwood' | View south west toward the Crookwell 3 East turbines is generally blocked by a combination of landform and woodland vegetation. | 12.6 km | 4.6 km | Very Low | Long Term | High | Nil | Nil |
| R103 | Residential Dwelling 'Ivy Lodge' | View south west toward the Crookwell 3 East turbines is generally blocked by a combination of landform and tree cover. | 12.5 km | 4.5 km | Very Low | Long Term | High | Nil | Nil |
| R104 | Residential Dwelling 'Highland Park' | Views south west toward Crookwell 3 South turbines are screened by landform. Views toward Crookwell 3 East are partially screened by tree cover and planting surrounding residential dwelling. | 10.6 km | 2.7 km | Very Low | Long Term | High | Nil | Low |

Table 16 – Residential View Location Matrix

| View location reference | Category of view location | View context | Distance to closest turbine Crookwell 3 South | Distance to closest turbine Crookwell 3 East | Relative number of people | Period of view | View location sensitivity | Visual Impact Crookwell 3 South | Visual Impact Crookwell 3 East |
|-------------------------|-------------------------------------|--|---|--|---------------------------|----------------|---------------------------|---------------------------------|--------------------------------|
| R105 | Residential Dwelling 'Jaradean' | Views south west toward Crookwell 3 South turbines are screened by landform. Views toward Crookwell 3 East are partially screened by tree cover and planting surrounding residential dwelling. | 11.1 km | 3.6 km | Very Low | Long Term | High | Nil | Low |
| R106 | Residential Dwelling 'Rosedale' | Views south west toward Crookwell 3 South turbines are screened by landform. Views toward Crookwell 3 East are partially screened by tree cover and planting surrounding residential dwelling. | 9.0 km | 1.9 km | Very Low | Long Term | High | Nil | Low |
| R107 | Residential Dwelling 'Quinton' | Views west to north west toward Crookwell 3 South are largely blocked by landform and scattered tree cover. Views north extend toward Crookwell 3 East site. | 7.9 km | 3.3 km | Very Low | Long Term | High | Nil | High |
| R108 | Residential Dwelling 'Eagleview' | Views south toward Crookwell 3 turbines generally screened by landform and vegetation. | 10.8 km | 3.8 km | Very Low | Long Term | High | Nil | Nil |
| R109 | Residential | Views south toward Crookwell 3 turbines | 9.7 km | 4.0 km | Very Low | Long | High | Nil | Low |

Table 16 – Residential View Location Matrix

| View location reference | Category of view location | View context | Distance to closest turbine Crookwell 3 South | Distance to closest turbine Crookwell 3 East | Relative number of people | Period of view | View location sensitivity | Visual Impact Crookwell 3 South | Visual Impact Crookwell 3 East |
|-------------------------|-----------------------------------|--|---|--|---------------------------|----------------|---------------------------|---------------------------------|--------------------------------|
| | Dwelling 'Frendale' | generally screened by landform and vegetation. | | | | Term | | | |
| R110 | Residential Dwelling 'Wallaroy' | Views south toward Crookwell 3 turbines generally screened by landform and vegetation. | 9.6 km | 4.3 km | Very Low | Long Term | High | Nil | Low |
| R111/112 | Community Hall | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| R113 | Residential Dwelling 'Karinga' | Views south toward Crookwell 3 turbines generally screened by landform and vegetation. | 10.6 km | 3.8 km | Very Low | Long Term | High | Nil | Nil |
| R114 | Residential Dwelling 'Frenleigh' | Views south toward Crookwell 3 turbines generally screened by landform and scattered tree cover. | 10.6 km | 3.4 km | Very Low | Long Term | High | Nil | Low |
| R115 | Roslyn Bush Fire Brigade building | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

Table 16 – Residential View Location Matrix

| View location reference | Category of view location | View context | Distance to closest turbine Crookwell 3 South | Distance to closest turbine Crookwell 3 East | Relative number of people | Period of view | View location sensitivity | Visual Impact Crookwell 3 South | Visual Impact Crookwell 3 East |
|-------------------------|---|---|---|--|---------------------------|----------------|---------------------------|---------------------------------|--------------------------------|
| R116 | Residential Dwelling 'Railway House' | Views south toward Crookwell 3 turbines generally screened by landform and scattered tree cover. | 9.4 km | 4.5 km | Very Low | Long Term | | Nil | Low |
| R117 R118 R119 | Rainmore Potential future residential dwelling | Development approvals have been granted to build a residential dwelling at three locations within the Rainmore property. Each location was inspected and assessed and the R117 location included in this matrix as the worst case scenario for potential visual impact. Views toward Crookwell 3 turbines from R118 and R119 are partially (or completely) screened by landform and/or vegetation. For R117 views south extend toward the Crookwell 3 South turbines. The view toward Crookwell 3 East turbines is blocked by landform and vegetation. | 1.5 km | 6.3 km | Very Low | Long Term | High | High | Nil |
| R120 | Residential | Views south and west toward Crookwell 3 turbines generally screened by landform | 5.1km | 7.1 km | Very Low | Long | High | Nil | Nil |

Table 16 – Residential View Location Matrix

| View location reference | Category of view location | View context | Distance to closest turbine Crookwell 3 South | Distance to closest turbine Crookwell 3 East | Relative number of people | Period of view | View location sensitivity | Visual Impact Crookwell 3 South | Visual Impact Crookwell 3 East |
|-------------------------|----------------------------------|--|---|--|---------------------------|----------------|---------------------------|---------------------------------|--------------------------------|
| | 'Elmgrove' | surrounding residential dwelling. | | | | | | | |
| R121 | Residential Dwelling | View south west toward Crookwell 3 South turbines are screened by scattered tree cover and planting surrounding residential dwelling. View south toward Crookwell 3 East turbines. | 11.0 km | 5.0 km | Very Low | Long Term | High | Nil | Low |
| R122 | Residential Dwelling 'Merryvale' | Views south toward Crookwell South and East turbines are screened by tree cover and planting surrounding residential dwelling. | 11.6 km | 7.8 km | Very Low | Long Term | High | Nil | Nil |
| R123 | Residential Dwelling | Views south to south east and west toward Crookwell South and East turbines are largely screened by tree cover and planting surrounding residential dwelling. | 5.1 km | 9.6 km | Very Low | Long Term | High | Nil | Low |
| R124 | Residential Dwelling | Views south to south east and west toward Crookwell South and East turbines are largely screened by scattered tree cover and landform. | 4.0 km | 9.5 km | Very Low | Long Term | High | Low | Low |

Table 16 – Residential View Location Matrix

| View location reference | Category of view location | View context | Distance to closest turbine Crookwell 3 South | Distance to closest turbine Crookwell 3 East | Relative number of people | Period of view | View location sensitivity | Visual Impact Crookwell 3 South | Visual Impact Crookwell 3 East |
|-------------------------|----------------------------------|---|---|--|---------------------------|----------------|---------------------------|---------------------------------|--------------------------------|
| R125 | Residential Dwelling | Views east toward the Crookwell 3 East site are partially screened by landform. Views toward the Crookwell 3 South extend south east from the residential dwelling. | 4.0 km | 10.3 km | Very Low | Long Term | High | Moderate | Low |
| R126 | Residential Dwelling | Views east toward the Crookwell 3 East site are partially screened by landform. Views toward the Crookwell 3 South extend south east from the residential dwelling. | 4.2 km | 11.0 km | Very Low | Long Term | High | Moderate | Low |
| R127 | Residential Dwelling | Views west extend toward the Crookwell 3 South site. Views toward the Crookwell 3 East site are partially screened by scattered tree cover and landform. | 5.2 km | 12.8 km | Very Low | Long Term | High | Low to Moderate | Low |
| R128 | Residential Dwelling 'Bannister' | View north west toward the Crookwell 3 East site are largely screened by scattered tree cover and landform | 4.4 km | 13.0 km | Very Low | Long Term | High | Moderate | Nil |
| R129 | Residential Dwelling | Views north east toward Crookwell 3 wind turbines are partially screened by scattered tree cover as well as planting within the | 4.6 km | 13.2 km | Very Low | Long Term | High | Low to Moderate | Nil |

Table 16 – Residential View Location Matrix

| View location reference | Category of view location | View context | Distance to closest turbine Crookwell 3 South | Distance to closest turbine Crookwell 3 East | Relative number of people | Period of view | View location sensitivity | Visual Impact Crookwell 3 South | Visual Impact Crookwell 3 East |
|-------------------------|---------------------------------------|---|---|--|---------------------------|----------------|---------------------------|---------------------------------|--------------------------------|
| | | property. | | | | | | | |
| Area A 5 – 10km | Residential Dwellings (9 in total) | Residential view locations within Area A generally situated alongside the Goulburn Crookwell Road and will tend to have restricted views toward the Crookwell 3 South and East turbines. | 14.7 km | 7.5 km | Very Low | Long Term | High | Low | Nil |
| Area B 5 – 10km | Residential Dwellings (11 total) | Residential view locations within Area B are located to the north of Middle Arm Road and will tend to have restricted views toward the Crookwell 3 South and East turbines. | 6.2 km | 5 km | Very Low | Long Term | High | Nil | Nil |
| Area C 5 – 10km | Residential Dwellings (13 total) | Residential view locations within Area C (other than those with an ID reference) are generally located alongside Middle Arm Road or to the west at around 10km from the Crookwell 3 East precinct. Residential view locations within Area C will tend to have limited views toward the Crookwell 3 wind farm, with views blocked for the most part by ridgeline landform and | 13 km | 8 km | Very Low | Long Term | High | Nil | Nil |

Table 16 – Residential View Location Matrix

| View location reference | Category of view location | View context | Distance to closest turbine Crookwell 3 South | Distance to closest turbine Crookwell 3 East | Relative number of people | Period of view | View location sensitivity | Visual Impact Crookwell 3 South | Visual Impact Crookwell 3 East |
|-------------------------|------------------------------------|---|---|--|---------------------------|----------------|---------------------------|---------------------------------|--------------------------------|
| | | woodland vegetation. | | | | | | | |
| Area D 5 – 10km | Residential Dwellings (1 total) | <p>The residential view locations within Area D (other than those with an ID reference) is located to the east of the Goulburn Crookwell Road.</p> <p>The residential view locations within Area D will tend to have limited views toward the Crookwell 3 wind farm, with views generally blocked for the most part by woodland vegetation.</p> | 8.5 km | 8.5 km | Very Low | Long Term | High | Nil | Nil |
| Area E 5 – 10km | Residential Dwellings (9 total) | <p>Residential view locations within Area E are generally located alongside Range Road to the south of the Crookwell 3 South precinct.</p> <p>Residential view locations within Area E will tend to have limited views toward the Crookwell 3 wind farm, with views blocked for the most part by landform and woodland vegetation.</p> | 7 km | 13.5 km | Very Low | Long Term | High | Nil | Nil |

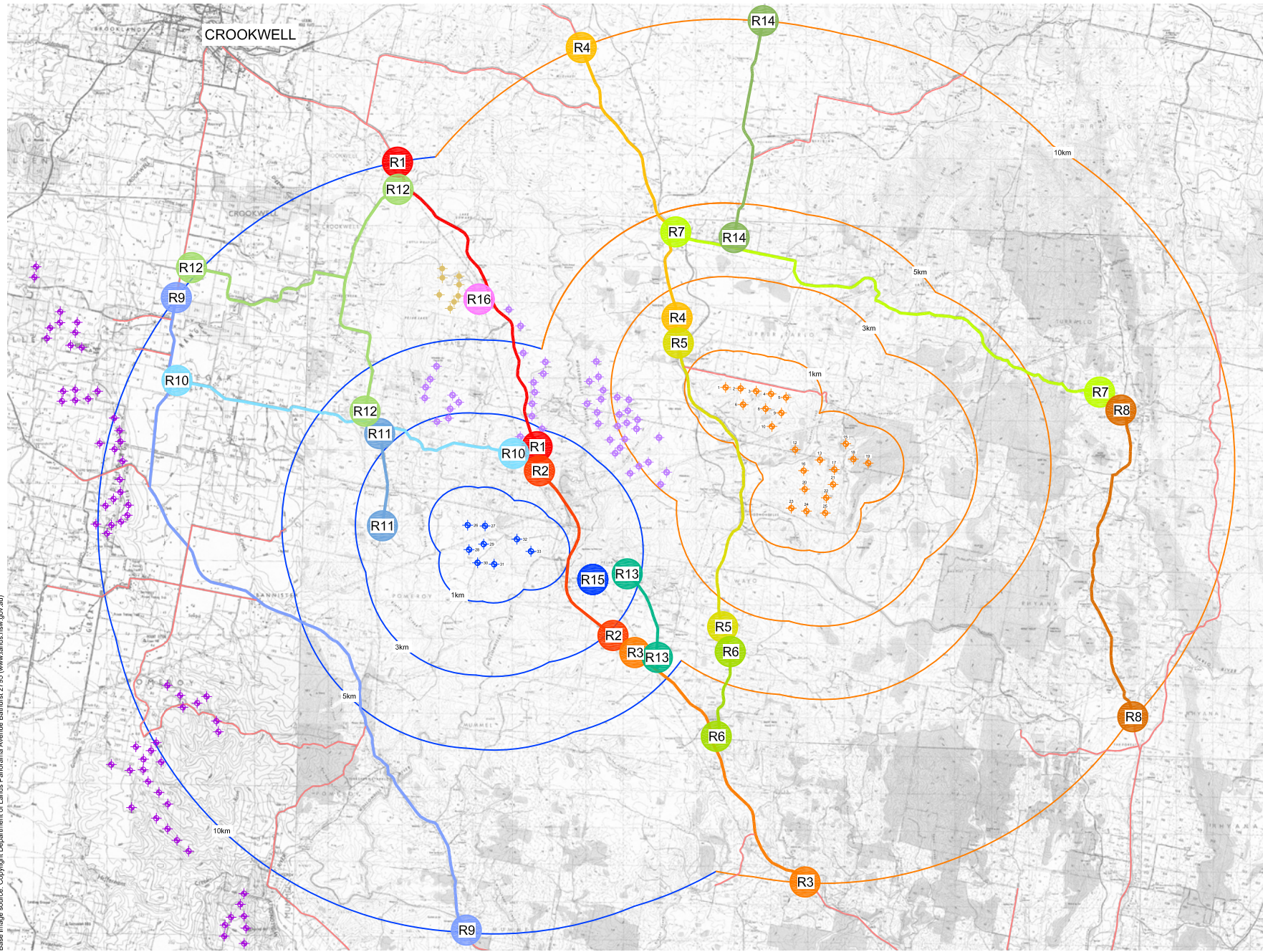
Table 16 – Residential View Location Matrix

| View location reference | Category of view location | View context | Distance to closest turbine Crookwell 3 South | Distance to closest turbine Crookwell 3 East | Relative number of people | Period of view | View location sensitivity | Visual Impact Crookwell 3 South | Visual Impact Crookwell 3 East |
|-------------------------|-------------------------------------|---|---|--|---------------------------|----------------|---------------------------|---------------------------------|--------------------------------|
| Area F 5 – 10km | Residential Dwellings (15 total) | Residential view locations within Area F are generally located alongside Range Road to the west of the Crookwell 3 South precinct. The residences will tend to have limited visibility toward the Crookwell 3 South precinct with views blocked for the most part by landform and woodland vegetation. | 6 km | 15 km | Very Low | Long Term | High | Low | Nil |
| Area G 5 – 10km | Residential Dwellings (15 total) | Residential view locations within Area G are generally located alongside the Kialla and Pejar Roads to the west of the Crookwell 3 South precinct. The residences will tend to have limited visibility toward the Crookwell 3 South precinct with views blocked for the most part by landform and woodland vegetation. | 6 km | 6.2 km | Very Low | Long Term | High | Low | Nil |
| Area H 5 – 10km | Residential Dwellings (14 total) | Residential view locations within Area H are generally located alongside the Third Creek and Gorham Roads to the north west of the Crookwell 3 South precinct. The residences will tend to have limited | 6 km | 10.2 km | Very Low | Long Term | High | Low | Nil |

Table 16 – Residential View Location Matrix

| View location reference | Category of view location | View context | Distance to closest turbine Crookwell 3 South | Distance to closest turbine Crookwell 3 East | Relative number of people | Period of view | View location sensitivity | Visual Impact Crookwell 3 South | Visual Impact Crookwell 3 East |
|-------------------------|---------------------------|--|---|--|---------------------------|----------------|---------------------------|---------------------------------|--------------------------------|
| | | visibility toward the Crookwell 3 South precinct with views blocked for the most part by landform and woodland vegetation. | | | | | | | |

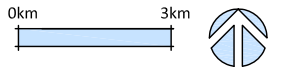
Figure 18 -
Public View Locations



Legend

- R1 Goulburn Road
- R2 Crookwell Road
- R3 Crookwell Road (south)
- R4 Woodhouselee Road (north)
- R5 Woodhouselee Road
- R6 Woodhouselee Road (south)
- R7 Middle Arm Road (north)
- R8 Middle Arm Road (East)
- R9 Range Road
- R10 Pejar Road
- R11 Dawsons Creek Road
- R12 Third Creek Road/Gorham Road
- R13 St Stephens Road
- R14 Carrabungla Road
- R15 Pejar Dam Picnic Area
- R16 Crookwell 1 Viewing Area

- ◆ Proposed Crookwell 3 East Turbine
- ◆ Proposed Crookwell 3 South Turbine
- ◆ Approved Crookwell 2 Turbine
- ◆ Existing Crookwell Turbine
- ◆ Approved Gullen Range Turbine



CROOKWELL DEVELOPMENT
PTY LTD



CROOKWELL 3 WIND FARM

Base image source: Copyright Department of Lands, Panorama Avenue Bathurst 2795 (www.lands.nsw.gov.au)

8.3 Public View Location Visibility Matrix

Table 17 presents the Visibility Matrix for the Crookwell 3 wind farm for public view locations. Potential public view locations are illustrated in **Figure 18**.

Table 17 - Public View Location Matrix

| View location reference | Category of view location | View context | Approx. distance of road section | Approx. distance to closest Crookwell 3 turbine | Relative number of people | Period of view | View locations sensitivity | Visual impact Crookwell 3 South | Visual impact Crookwell 3 East |
|---|---------------------------|---|----------------------------------|---|---------------------------|---|----------------------------|---------------------------------|--------------------------------|
| R1 Goulburn Crookwell Road north | Motorist | Views from vehicles travelling south and north along the road extend across the surrounding landscape from high points and ridgeline areas, but are also restricted in places by roadside vegetation and undulating landform. | 9 km | 1 km | High | Very short term (approx 5 to 6 mins) | Low | Low | Nil |
| R2 Goulburn Crookwell Road | Motorist | Views toward Crookwell 3 South turbines from vehicles travelling along the road tend to be restricted to a high point south of Pejar Road, and become obscured by a road cutting falling to Pejar Dam. Direct views toward | 5 km | 9.8 km | High | Very short term (approx 4 mins) | Low | Low | Low |

Table 17 - Public View Location Matrix

| View location reference | Category of view location | View context | Approx. distance of road section | Approx. distance to closest Crookwell 3 turbine | Relative number of people | Period of view | View locations sensitivity | Visual impact Crookwell 3 South | Visual impact Crookwell 3 East |
|--|---------------------------|--|----------------------------------|---|---------------------------|---|----------------------------|---------------------------------|--------------------------------|
| | | the Crookwell 3 South turbines occur from vehicles travelling north toward Crookwell for a short distance of road. | | | | | | | |
| R3 Goulburn Crookwell Road south | Motorist | Views from vehicles travelling north along the road toward the Crookwell 3 South and East precincts are generally screened by landform and vegetation. | 8 km | 4 km | High | Very short term (approx 5 mins) | Low | Nil | Nil |
| R4 Woodhouselee Road North | Motorist | Views from vehicles travelling south along the road toward the Crookwell 3 East precinct are generally screened by landform and vegetation. | 9 km | 2.5 km | Low | Very short term (approx 5 to 6 mins) | Low | Nil | Low |
| R5 Woodhouselee | Motorist | Views from vehicles travelling north and south along Woodhouselee Road | 9 km | 900 m | Low | Very short term (approx 5 | Low | Nil | Low |

Table 17 - Public View Location Matrix

| View location reference | Category of view location | View context | Approx. distance of road section | Approx. distance to closest Crookwell 3 turbine | Relative number of people | Period of view | View locations sensitivity | Visual impact Crookwell 3 South | Visual impact Crookwell 3 East |
|-------------------------------|---------------------------|--|----------------------------------|---|---------------------------|-------------------------------------|----------------------------|---------------------------------|--------------------------------|
| Road | | will include direct and indirect views toward the Crookwell 3 East turbines; however some screening will be provided by roadside vegetation and adjoining undulating landform. | | | | to 6 mins) | | | |
| R6 Woodhouselee Road South | Motorist | Views from vehicles travelling north along the road toward the Crookwell 3 East precinct are generally screened by landform and vegetation. | 3 km | 5 km | Low | Very short term (approx 2 mins) | Low | Low | Low |
| R7 Middle Arm Road North | Motorist | Views toward the Crookwell 3 East precinct from vehicles travelling east or west along the road are generally blocked by landform and vegetation, although some indirect | 14 km | 3-4 km | Low | Very short term (approx 10 mins) | Low | Nil | Low |

Table 17 - Public View Location Matrix

| View location reference | Category of view location | View context | Approx. distance of road section | Approx. distance to closest Crookwell 3 turbine | Relative number of people | Period of view | View locations sensitivity | Visual impact Crookwell 3 South | Visual impact Crookwell 3 East |
|---------------------------------|---------------------------|--|----------------------------------|---|---------------------------|---|----------------------------|---------------------------------|--------------------------------|
| | | views may occur along the west portion of the road. | | | | | | | |
| R8 Middle Arm Road East | Motorist | Views toward the Crookwell 3 East precinct from vehicles travelling north and south along the road are generally blocked by landform and vegetation. | 9 km | 7 km | Low | Very short term (approx 5 to 6 mins) | Low | Nil | Nil |
| R9 Range Road & Kialla Road. | Motorist | Views toward the Crookwell 3 South precinct from vehicles travelling north and south along the roads are largely screened by woodland vegetation and topography for the greater portion of the roads; however there is limited potential for indirect and distant views toward some of the Crookwell 3 | 21 km | 4.5 km | Low | Short term (approx 12 to 15 mins) | Low | Low | Nil |

Table 17 - Public View Location Matrix

| View location reference | Category of view location | View context | Approx. distance of road section | Approx. distance to closest Crookwell 3 turbine | Relative number of people | Period of view | View locations sensitivity | Visual impact Crookwell 3 South | Visual impact Crookwell 3 East |
|----------------------------|---------------------------|---|----------------------------------|---|---------------------------|---|----------------------------|---------------------------------|--------------------------------|
| | | South turbines from a short portion of Kialla Road. | | | | | | | |
| R10 Pejar Road | Motorist | Views toward the Crookwell 3 South precinct from vehicles travelling east and west are partially screened by landform and vegetation alongside the road corridor. There are some limited opportunities for partial views toward upper sections of some turbines as the road passes over high points between drainage lines. | 10 km | 2 km | Low | Very short term (approx 5 to 7 mins) | Low | Low | Nil |
| R11 Dawson's Creek Road | Motorist | Elevated views extend south toward the Crookwell 3 South precinct from the north portion of Dawson's Creek road. As the road falls toward the south views | 2 km | 2.5 km | Low | Very short term (approx 1 to 2 mins) | Low | Low | Low |

Table 17 - Public View Location Matrix

| View location reference | Category of view location | View context | Approx. distance of road section | Approx. distance to closest Crookwell 3 turbine | Relative number of people | Period of view | View locations sensitivity | Visual impact Crookwell 3 South | Visual impact Crookwell 3 East |
|-------------------------------------|---------------------------|---|----------------------------------|---|---------------------------|---|----------------------------|---------------------------------|--------------------------------|
| | | tend to be screened by tree planting alongside the road corridor. | | | | | | | |
| R12 Third Creek Road/Gorham Road | Motorist | Views toward the Crookwell 3 South and East turbines from vehicles travelling along these roads are largely screened by woodland vegetation and undulating landform. | 13 km | 4 km | Low | Very short term (approx 9 mins) | Low | Nil | Nil |
| R13 St Stephens Road | Motorist | Views extend north west to west toward the Crookwell 3 South precinct from a short portion of the road with views toward Crookwell 3 East turbines largely screened by vegetation to the east of the road corridor. | 3 km | 3 km | Low | Very short term (approx 2 to 3 mins) | Low | Low | Nil |

Table 17 - Public View Location Matrix

| View location reference | Category of view location | View context | Approx. distance of road section | Approx. distance to closest Crookwell 3 turbine | Relative number of people | Period of view | View locations sensitivity | Visual impact Crookwell 3 South | Visual impact Crookwell 3 East |
|---------------------------------|---------------------------|---|----------------------------------|---|---------------------------|---|----------------------------|---------------------------------|--------------------------------|
| R14 Carrabungla Road | Motorist | Views from vehicles travelling south along the road are partially screened by trees alongside the road corridor | 6 km | 4 km | Low | Very short term (approx 5 to 6 mins) | Low | Nil | Low |
| R15 Pejar Dam Picnic Area | Visitor | Views toward the Crookwell 3 South and East turbines are largely screened by landform and vegetation. | - | 1.4 km | Low | Short to Medium term | High | Low | Nil |
| R16 Crookwell 1 Viewing Area | Visitor | View south toward Crookwell 3 South and East turbines | - | 6 km | Low | Short to Medium term | Low | Low | Low |

8.4 Future residential dwellings

The majority of existing residential dwellings in the vicinity of the wind farm are located below surrounding ridgelines to maximise potential for shelter from prevailing wind, and/or where exposed tend to include a degree of shelter from windbreak planting or tree planting around dwellings. The tendency to locate residential dwellings in sheltered situations also acts to limit the extent of available views across the surrounding landscape for the majority of residential view locations, although there are a small number of dwellings that appear to have been located on properties to take advantage of distant and panoramic views.

Potential future planning for residential dwellings would be able to take advantage of any approved layout design for Crookwell 3 when determining the optimal location for residential dwellings on individual portions of land to minimise views toward wind turbines if desired. In some circumstances future residential dwellings could be located to take advantage of local topographic features in order to screen views toward wind turbines or implement in advance mitigation measures such as tree planting for windbreak and/or screening purposes.

Should residential dwellings be constructed on existing portions of land immediately adjacent to the wind farm site, there is likely to be an associated visual impact not only with additional residential structures within the landscape but also a range of domestic infrastructure associated with it.

8.5 Summary of Visual Impact

This LVIA identified a total of 131 potential residential view locations within the 5km Crookwell 3 viewshed; however, seven of these view locations were determined to be non residential structures including meeting halls, rural fire stations and agricultural structures. An additional 87 residential view locations were identified within the 5km to 10km Crookwell 3 viewshed and were grouped into areas A to H as illustrated in **Figure 17**.

Table 18 outlines the assessment of residential view locations within the Crookwell 3 wind farm 5km viewshed.

Table 18 – Summary of Visual Impact Rating within 5km viewshed

| | Visual Impact Rating within 5km Crookwell 3 viewshed (Total from 124 residential dwellings) | | | | | |
|-------------------|--|------------|-----------------|----------|------------------|----------|
| | Nil | Low | Low to Moderate | Moderate | Moderate to High | High |
| Crookwell 3 South | 71 (57%) | 30 (24.5%) | 5 (4.5%) | 8 (6%) | 7 (5.5%) | 3 (2.5%) |
| Crookwell 3 East | 32 (26%) | 55 (45%) | 10 (8%) | 8 (6%) | 4 (3%) | 15 (12%) |

Table 19 outlines the assessment of residential view locations within the Crookwell 3 wind farm 5km to 10km viewshed.

Table 19 – Summary of Visual Impact Rating between the 5km to 10km viewshed

| Areas A to H | Visual Impact Rating within 5km to 10km Crookwell 3 viewshed (Total from 87 residential dwellings) | | | | | |
|-------------------|---|----------|-----------------|----------|------------------|------|
| | Nil | Low | Low to Moderate | Moderate | Moderate to High | High |
| Crookwell 3 South | 30 (34%) | 57 (66%) | - | - | - | - |
| Crookwell 3 East | 87 (100%) | - | - | - | - | - |

Residential dwellings identified within Areas A to H were determined to have a Low visual impact and Nil where landform and timbered areas screened views toward the Crookwell 3 wind farm.

The field assessment for the majority of residential view locations was undertaken from the closest publicly accessible location, with a conservative approach adopted where there was no opportunity to confirm the actual extent of available view from areas within or immediately surrounding the residence. It is anticipated that some visibility ratings would be less than those determined subject to a process of verification from private property.

A total of 16 public view locations were identified as part of the visual assessment process. The public view locations are illustrated in **Figure 18**.

An assessment of the visual impact for each public view locations indicated that for the Crookwell 3 South and East wind farm layout options:

- 0 of the 16 public view locations have been determined to have a High visual impact;
- 0 of the 16 public view locations have been determined to have a Moderate visual impact;
- 11 of the 16 public view locations have been determined to have a Low visual impact; and
- 5 of the 16 public view locations have been determined to have a Nil visual impact.

This LVIA acknowledges that the Crookwell 3 wind farm will have the potential to be visible to people engaged in predominantly farming or recreational activities from both public and private land, where views toward wind turbines may occur from surrounding and non-associated rural areas. Ultimately the level of visual impact would depend on the type of activities engaged in as well as the location of the activities together with the degree of screening provided by local landform or vegetation within individual properties.

Whilst views toward the turbines would occur from a wide area of surrounding rural and agricultural land, this LVIA has determined that the sensitivity of visual impacts is less for those employed or carrying out work in rural areas compared to potential views from residential dwellings.

It should be noted that the term 'visual impact' does not necessarily imply or represent an individual's negative response toward the visibility of wind turbines, and that perceptions of wind farms amongst individuals within any community can be positive, negative or neutral.

Traffic Volume figures (AADT's) and resultant determination of motorist numbers have been sourced from the Crookwell 3 wind farm Traffic and Transport Study, prepared by URS Australia (September 2010).