WIND

UUNGULA WIND FARM (SSD-6687)

Response to Request for Additional Information

22 January 2021

Version	1
Author	CWP Renewables Pty Ltd
Client	Uungula Wind Farm Pty Ltd

cwp renewables

REVISION CONTROL

Revision	Date	Issue	Author	Reviewed	Approved	Signature
1	22/01/21	Final/Issued	M Flower	Ed Mounsey	Ed Mounsey	

CONFIDENTIALITY

DISCLAIMER:

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Introduction

This document has been prepared by CWP Renewables Pty Ltd (CWPR) on behalf of Uungula Wind Farm Pty Ltd (UWF) in response to a Request for Additional Information (RFI) made by the NSW Department of Planning, Industry and Environment (DPIE) regarding the Uungula Wind Farm ('the Project') development application and environmental impact assessment (SSD-6687). The document is referred to throughout as 'RFI response'.

Request for Additional Information

The DPIE RFI dated 18 December 2020 requested the following additional information:

Visual:

- *The following information is required for all assessed non-associated residences and sensitive viewpoints:*
  - *visual impact rating;*
  - *cumulative impact rating with Bodangora Wind Farm;*
  - *closest turbines (turbine number);*
  - *number of turbines within 3.35 km and 5 km;*
- *Confirm that visual impacts from all public viewpoints have been considered and assessed.*

Traffic & Transport:

- *Schedule of all proposed road works and upgrades;*

General:

- *Further detail on the water requirements of the project and confirmation that an adequate and secure water supply is available*
- *Confirm MW / MWh capacity of energy storage facility*

Project Figures:

- *Provide updated project figures, including regional context, project layout, transport, Aboriginal cultural heritage and visual assessment figures.*

The information forming the responses is detailed in Section 1 and relevant appendices.

Related Documents

This RFI response is prepared following the preparation and submission to DPIE of the following documents:

- Environmental Impact Statement: Uungula Wind farm (May 2020) (Eco Logical Australia. (2020). *Uungula Wind Farm Environmental Impact Statement*. Prepared for CWP Renewables Pty Ltd on behalf of Uungula Wind Farm Pty Ltd) ('UWF EIS').
- Uungula Wind Farm: Submissions Report (November 2020) (CWPR Pty Ltd 2020) ('UWF Submissions Report').
- Uungula Wind Farm: Amendment Report (November 2020) (CWPR Pty Ltd 2020) ('UWF Amendment Report').

1 Response Details

Responses are detailed below under each of the relevant subheadings.

1.1 Visual

Appendix A contains a detailed response to the visual assessment information requested.

1.2 Traffic & Transport

Appendix B contains a schedule of road works and upgrades to which the Project has committed. They are comprised by the updated statements of commitment: TM006, TM007 and TM008 contained in the UWF Amendment Report section 5.1.

1.3 General

1.3.1 Water Requirements

As described in the EIS section 4.1.4 'Resource Requirements' (EIS page 132) water will be sourced in accordance with the provisions of the *Water Management Act 2000* by sourcing water from a licensed supplier. Consistent with other large-scale greenfield development, it is through this regulated approach that an adequate and secure water supply for the project will be obtained. It is estimated that approximately 95 mega litres (ML) of water will be required for construction including (but not limited to) concrete batching, road construction and dust suppression activities during construction. The water volumes provided are reasonable with regard to the types of activities proposed, however they are estimates and not limits. Prevailing weather conditions during the period of construction, temperature in particular, will affect the volume of water required.

1.3.2 Energy Storage Facility

The energy capacity and discharge rate of the Energy Storage Facility are nominally stated as an indicative 150MW/150MWh however the capacity and discharge rate are not intended as upper limits. The EIS and supporting studies have been prepared considering those as indicative values and the capital investment value of the project for the purposes of calculating the planning fee was calculated using a 150MW/300MWh Energy Storage Facility.

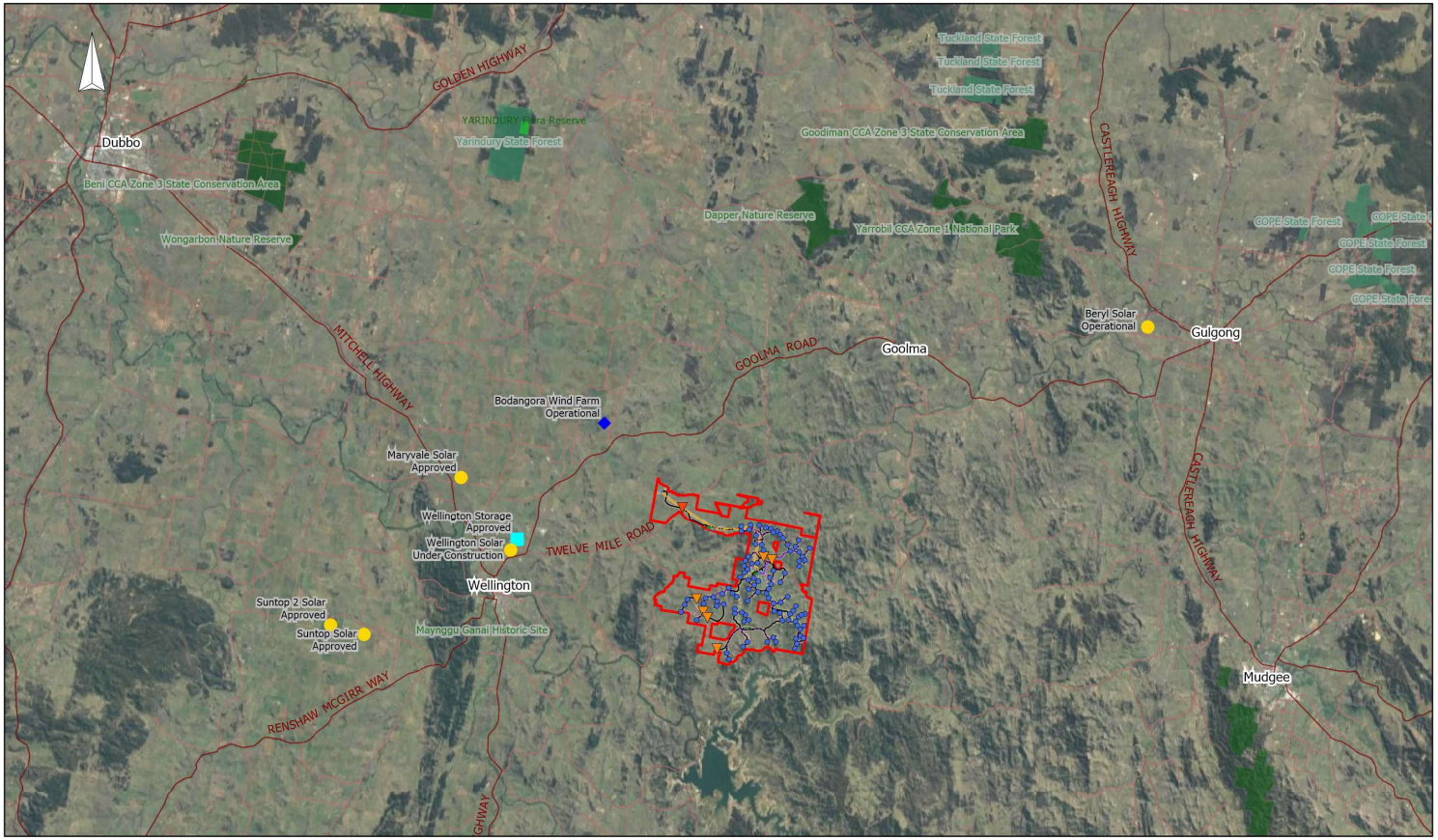
1.4 Project Figures

Updated figures are included in the following pages and sections as:

- Regional Context (including other State Significant Development in the region approved, under construction and operating): Figure 1
- Project Layout: Figure 2
- Consolidated Visual Context: Figure 3
- Transport Map 1: Figure 4
- Transport Map 2: Figure 5

- Aboriginal Cultural Heritage: Figure 6
- Visual Assessment (refer to Appendix A)

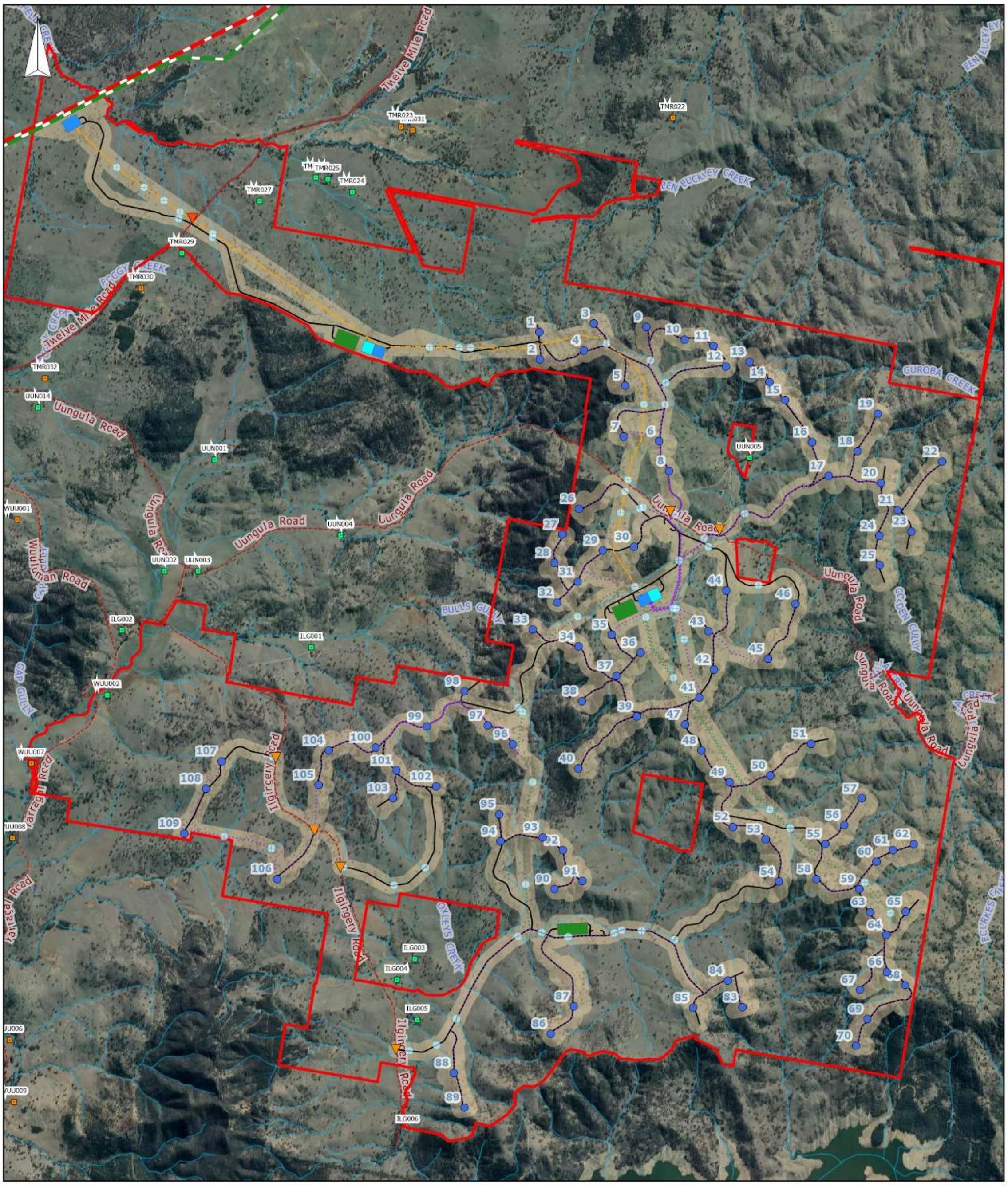
Figure 1: Regional Context



LEGEND			
Existing major roads	Project Site	Existing Powerlines:	
Existing minor roads	Primary Project Site entry	132kV	
Nature Reserve	Secondary intersections	330kV	
State Forest	Project Access tracks	Proposed powerlines:	
SSD Projects:	Wind Turbine Generator (WTG)	Overhead (high voltage)	
Solar		Underground (medium to low voltage)	
Storage		Overhead (medium to low voltage)	
Wind Farm			
SCALE BAR	0 10 km		

COMPANY				
UUNGULA WIND FARM PTY LTD				
TITLE				
Regional Context				
DATE	SCALE	DWG NO	REV	VER
21/01/21	1:280000	UWF-126	A	1
DRAWN BY	CHECKED BY	SHEET	JOB NO	SIZE
J PETERSEN	M FLOWER	1 OF 1	110247	A3

Figure 2: Project Layout



LEGEND	
Residences:	Wind Turbine Generator (WTG)
Involved	Site Compound
Non-involved	Substation
Existing Unsealed Road	Energy Storage Facility
Existing Sealed Road	Existing Powerlines:
Project Site	132kV
Access tracks	330kV
Primary Project Site entry	Proposed powerlines:
Secondary intersections	Overhead (high voltage)
Waterway Crossing	Underground (medium to low voltage)
	Overhead (medium to low voltage)

SCALE BAR
0 5 km

COMPANY				
UUNGULA WIND FARM PTY LTD				cwp renewables
TITLE				
Project Layout				
DATE	SCALE	DWG NO	REV	VER
21/01/21	1:49000	UWF-127	A	1
DRAWN BY	CHECKED BY	SHEET	JOB NO	SIZE
J PETERSEN	M FLOWER	1 OF 1	110247	A3

Figure 3: Consolidated Visual Context

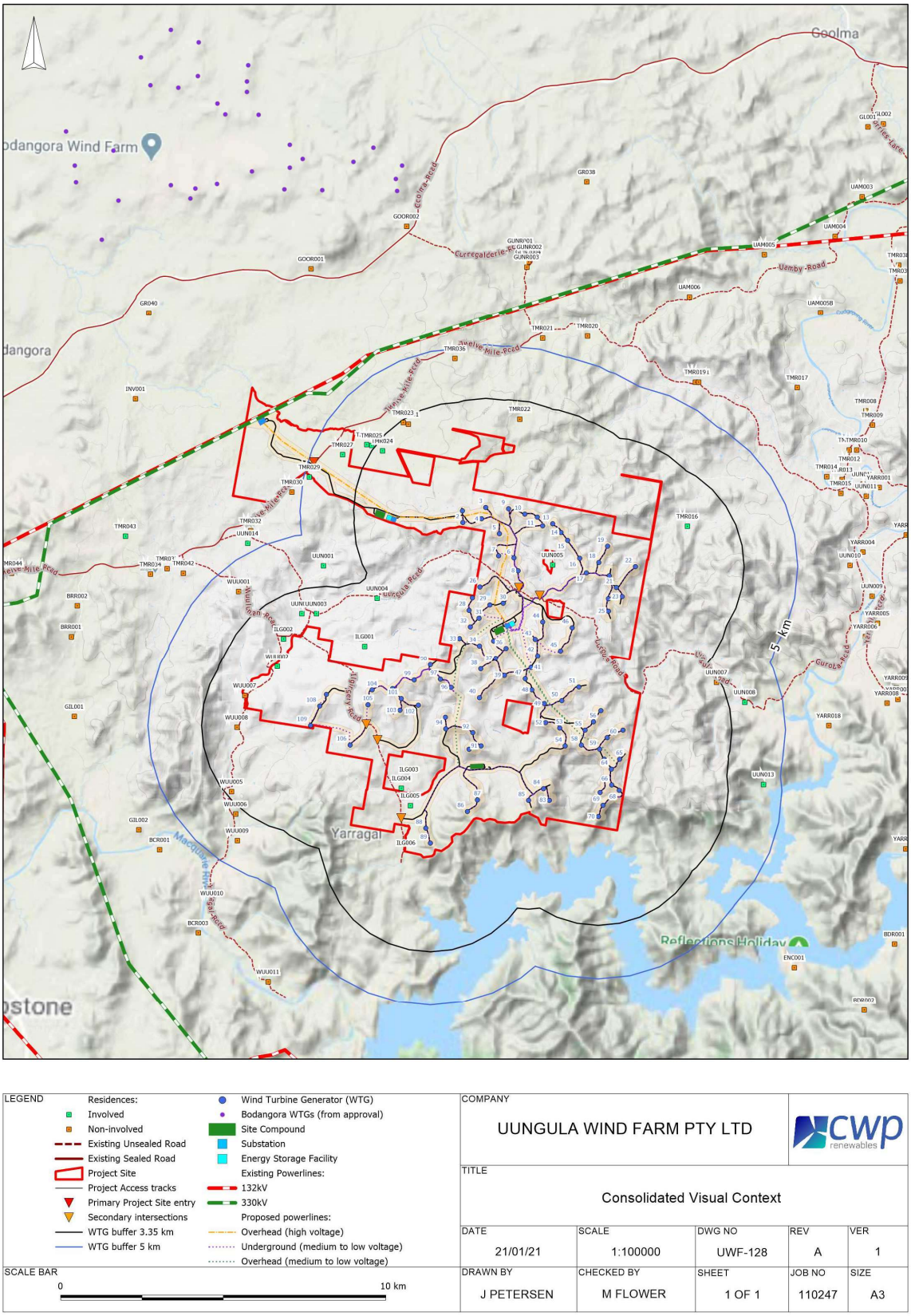


Figure 4: Transport Map 1

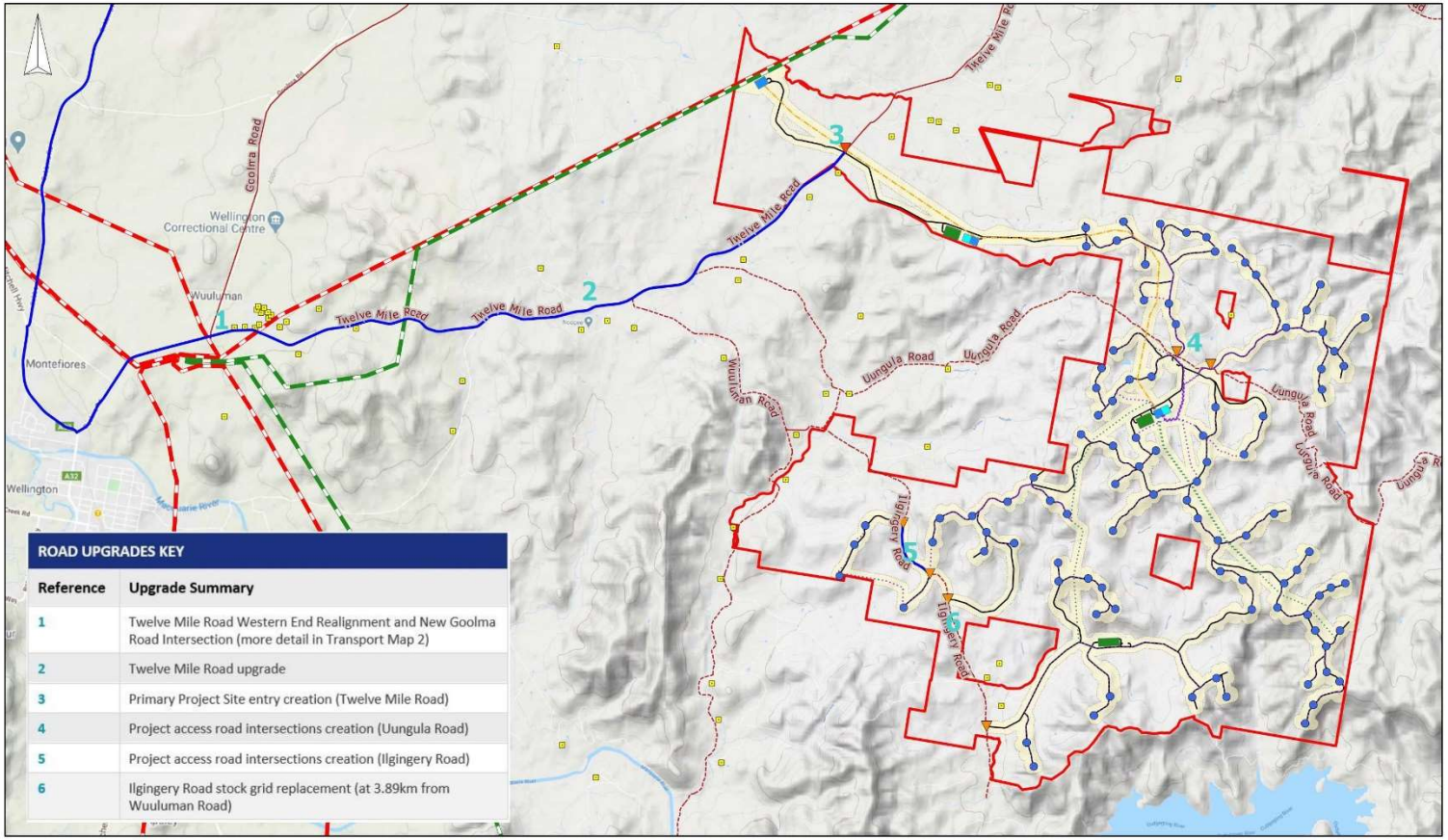


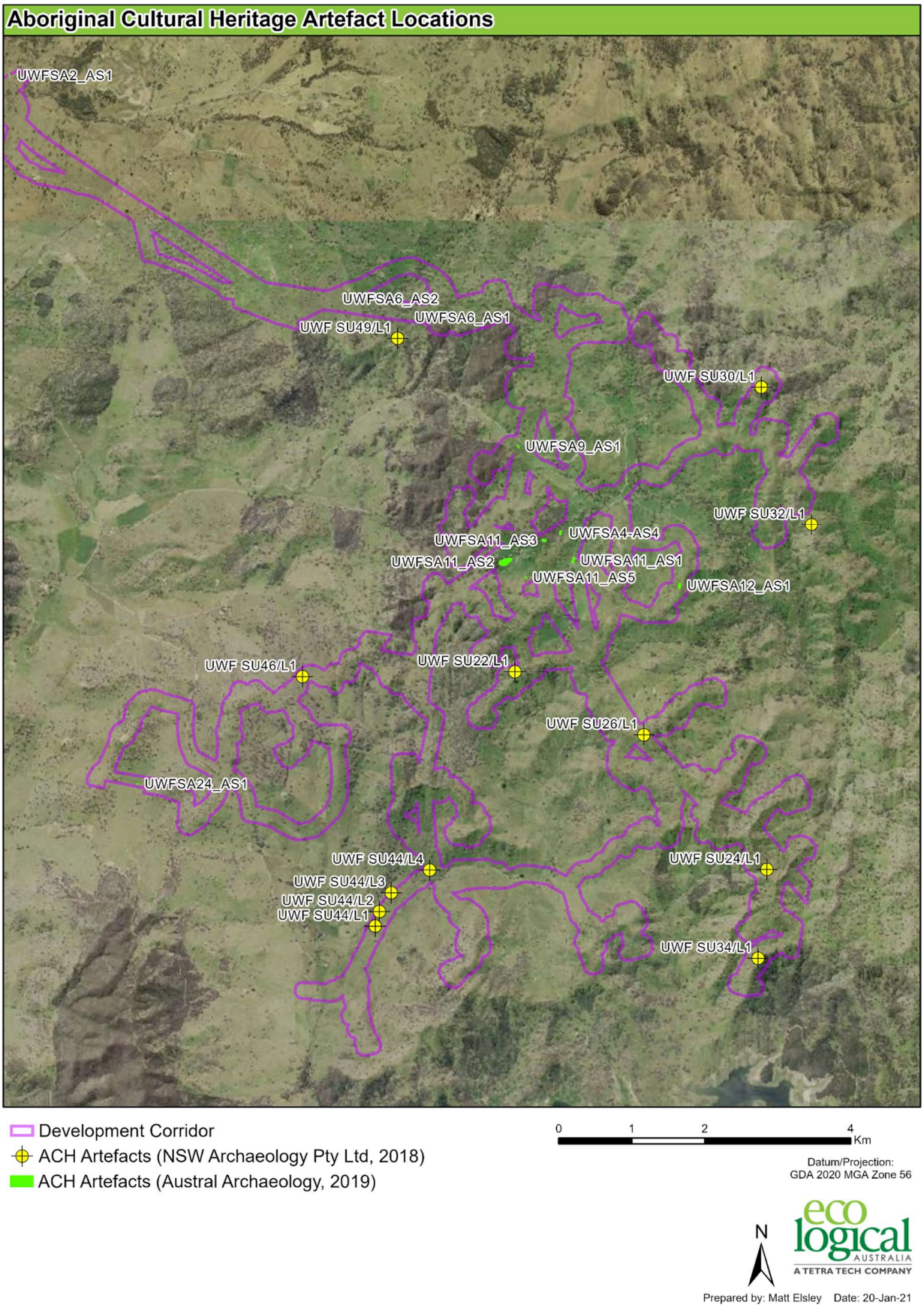
Figure 5: Transport Map 2

LEGEND

- Gazetted Road Reserve (currently unformed)
- Cadastral Boundary
- Twelve Mile Rd & Goolma Rd Intersection Upgrade (proposed)
- Existing Twelve Mile Rd Realignment & Goolma Rd Intersection to be Closed
- Public Road

COMPANY: UUNGULA WIND FARM PTY LTD				
TITLE: Transport Map 2: Twelve Mile Road Western End Realignment and New Goolma Road Intersection				
DATE: 29 OCT 2020	SCALE: Not to Scale	DWG NO: UWF-130	REV: A	VER: 1
DRAWN BY: B KRONENBERG	CHECKED BY: M FLOWER	SHEET: 1 OF 1	JOB NO: 110247	SIZE: A3

Figure 6: Aboriginal Cultural Heritage



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WIND

UUNGULA WIND FARM (SSD-6687)

Response to Request for Additional Information
Appendix A

22 January 2021

Version	1
Author	Matthew Flower
Client	Uungula Wind Farm Pty Ltd

cwp renewables

Uungula Wind Farm

Addendum Report

Prepared for: **CWP Renewables**

Project No: **1684** Issue: **REV A** Date: **14th January 2021**

1.0 Introduction

The purpose of this report is to provide a response to the request for additional information in relation to the Landscape and Visual Impact Assessment (LVIA) prepared for Uungula Wind Farm in May 2020. In a letter dated 18th December 2020, the Department of Industry and Environment (DPIE) requested (note: a cross reference to where the comment is addressed is included after each bullet point as underlined text):

• The following information is required for all assessed non-associated residences and sensitive viewpoints:

- *o visual impact rating;* **Refer to Section 3.0**
- *o cumulative impact rating with Bodangora Wind Farm;* **Refer to Section 4.0**
- *o closest turbines (turbine number);* **Refer to Tables A1 - A3 (Appendix A)**
- *o number of turbines within 3.35km and 5km;* **Refer to Tables A1 - A3 (Appendix A)**

• Confirm that visual impacts from all public viewpoints have been considered and assessed. **Refer to Section 2.0**

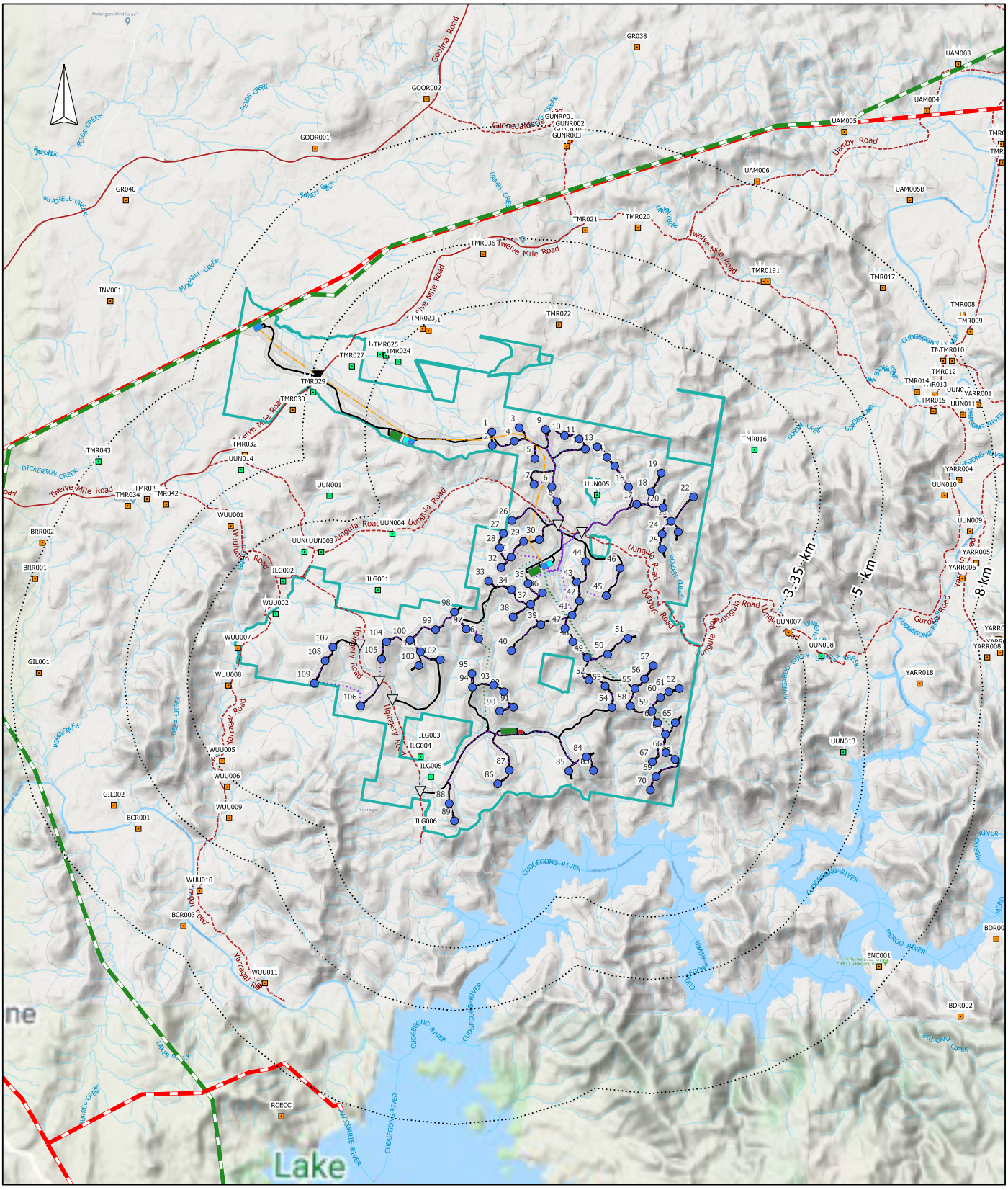
2.0 Study Method:

The following provides an overview of the study method applied to address the request. For the purpose of providing additional information for *'all assessed non-associated residences and sensitive viewpoints*' the following applies:

Residences within 8 kilometres of the nearest turbine:

Following the submission of the EIS in May 2020, there has been an increase in the number of residences involved with the Uungula Wind Farm (see **Figure 1**).

- As of January 2021, there are a total of eleven (11) non-involved landowners within 5 kilometres of the nearest proposed WTG. ***Table A1*** provides an overview of the additional information requested for each of the dwellings within 5000m.
- Seven (7) non-involved residences are located within 3350m of the nearest turbine: *TMR022, TMR023, TMR031, WUU05, WUU07, WUU08, UUN007*
- Four (4) non-involved residences are within 3350-5000m of the nearest turbine: *TMR036, WUU001, WUU006, WUU009*
- There are 38 non-involved residences assessed within 5 - 8 kilometres of the nearest turbine. ***Table A2*** provides a summary of the requested information from non-involved dwellings within 5 - 8 kilometres of the nearest turbine.



LEGEND

- Residences:
  - Involved
  - Non-involved
- Existing Unsealed Road
- Existing Sealed Road
- Project Site
- Access tracks
- Primary Project Site access
- Secondary intersections
- WTG buffers
- Wind Turbine Generator (WTG)
- Site Compound
- Substation
- Energy Storage Facility
- Existing Powerlines:
  - 132kV
  - 330kV
- Proposed powerlines:
  - Overhead (high voltage)
  - Underground (medium to low voltage)
  - Overhead (medium to low voltage)

SCALE BAR

0 — 10 km

Figure 1: Residences (Source: CWP Renewables)

Sensitive Viewpoints

A total of 46 viewpoints were assessed in the LVIA from various publicly accessible locations throughout the study area. Of these 46 viewpoints, the following Visual Influence Zone (VIZ) ratings applied:

- 3 were rated as VIZ1
- 30 were rated as VIZ2
- 13 were rated as VIZ3

As there are no performance objectives for VIZ3 these are not considered 'sensitive viewpoints' and therefore the requested information has been provided for the 33 remaining viewpoints with a VIZ1 or VIZ2 rating.

- ***Table A3 (Appendix A)*** provides an overview of the requested information from 'sensitive viewpoints'.

3.0 Visual Impact Rating:

The application of a 'visual impact rating' of ***nil, nil-low, low, low-moderate, moderate, moderate - high or high*** has been provided for each of the non-associated residences and sensitive viewpoints.

The Bulletin states: *the Department adopts the widely accepted and commonly utilised approach that visual impact can be determined from a combination of receiver sensitivity and the magnitude of visual effect. This approach is documented in numerous Australian and international guidelines, and is considered to be industry best practice.*

Moir LA have developed a framework for defining and rating the level of visual effect from each dwelling. The framework in **Table 2** has been prepared with regards to the third edition of the *Guidelines for Landscape and Visual Impact Assessment* (GLVIA3), *Residential Visual Amenity Assessment* (RVAA) and Moir LA's extensive professional experience in undertaking LVIAs for wind energy projects.

Note this assessment has been undertaken based on a desktop assessment alone which takes into account topography and assessment of available aerial imagery.

- The visual impact rating for each dwelling and 'sensitive viewpoint' is provided in ***Tables A1 - A3*** (Appendix A).

	NIL	LOW	MODERATE	HIGH
Distance	The project will not be visible.	Turbines may be visible in distance or very partially visible in the foreground.	Turbines maybe visible in the middle ground or a small number may be visible in the near ground.	Turbines are highly visible in the foreground.
Type of views		Views from the dwelling are not focused on the Project.	Views from the dwelling are not focused entirely on the Project.	Views are focused directly towards the Project.
Direction of view		The Project may be visible in peripheral views or form a very minor element in primary views.	The Project may be visible from, yet will not dominate primary views.	The Project will be highly visible and has the potential to be a dominant element in primary views from the property.
Extent of visibility		The Project may be partially visible or fragmented.	The Project may be visible from the dwelling yet will not significantly alter the existing visual character.	The Project has the potential to significantly alter the existing visual character when viewed from the dwelling.
Scale of change		The Project may be visible yet will not change to the existing visual character.	The Project has the potential to become a noticeable element in the view, yet will not overly diminish the existing visual character.	The Project has the potential to alter the existing visual character.
Degree of contrast		The Project will have a low level of contrast with the existing landscape.	The Project will result in a moderate level of contrast with the existing landscape.	The scale of the Project will result in a high level of contrast with the existing landscape.
Duration of change		Changes are temporary.	Changes to the landscape have the potential to be reduced over time (with the employment of. mitigation methods).	Changes to the landscape are continuous and / or irreversible.
Mitigation Options		Existing screening factors contribute to reducing the potential visibility.	Some existing screening factors may contribute to fragmenting the Project or there is opportunity to screen the Project.	Limited or no opportunity to screen the Project.

Table 1. Visual Effect Rating

Summary of Visual Impact Rating - Non-involved Residences

Residences within 5000 metres

There are 11 non-involved residences within 5000m (black line of visual magnitude) of the nearest turbine. The majority of residences are likely to have a low or low-moderate visual impact rating . One residence has been rated as having amoderate visual impact and one with a moderate - high visual impact (refer to Table 2).

Residences within 5000 - 8000 metres

There are 38 non-involved residences within 5000 - 8000m of the Project. The Project will be screened by topography and is therefore not visible from 13 of these residences (refer to Table A2).

Visual Impact Rating	Total number of non-involved residences	Percentage of non-involved residences (Approx.)
Nil	13	27%
Nil - Low	3	6%
Low	25	51%
Low - Moderate	6	12%
Moderate	1	2%
Moderate - High	1	2%
High	0	0%

Table 2. Overview of Visual Impact Rating from all assessed Non-involved Dwellings

Visual Impact Rating - Sensitive Viewpoints

Of the 33 'sensitive viewpoints' assessed, the Project will be screened by topography from 7 of the sensitive viewpoints (refer to Table A3). Of the remaining 26 viewpoints assessed, the following visual impact ratings were determined:

- 2 = Nil - low
- 10 = Low
- 3 = Low - moderate
- 3 = Moderate
- 5 = Moderate - high
- 3 = High

4.0 Cumulative Visual Impact

There are ten (10) non-involved residences identified within 8 kilometres of both the Bodangora and Uungula Wind Farms (see **Figure 2**).

- Six residences with potential views to both wind farms are located along Twleve Mile Road: *TMR020, TMR021, TMR022, TMR023, TMR031, TMR036*
- Four residences are associated with Gunegalderie Road: *GUN001, GUN002, GUN003 AND GUN004.*

The Cumulative zone of visual influence (ZVI) diagram (Figure 14 of the LVIA) illustrates the Bodangora Wind Farm is screened by topography and would therefore have no cumulative visual impact from the following seven (7) residences: TRM020, TMR021, TMR022, GUN001, GUN002, GUN003 and GUN004.

Table 3 provides an overview of the potential cululative visual impact from the remaining three (3) residences (TMR023, TMR031 & TMR036) with potential views to both wind farms:

Residence	Distance to nearest Bodangora WF WTG	Number of WTGs within 8 kms of residence:	Cumulative Visual Impact Rating:	Assessment Notes:
TMR023	7.2 km	5	Low	Distant views to approximately 14 WTGs associated with Bodangora Wind Farm.
TMR031	7.2 km	5	Nil - Low	Distant views to approximately 14 WTGs associated with Bodangora Wind Farm likely to be fragmented by vegetation.
TMR036	5.45 km	4	Nil - Low	Vegetation to the north of the house and along Twelve Mile Road appears to screen views to Bodangora Wind Farm from this residence.

Table 3. Overview of cumulative visual impact

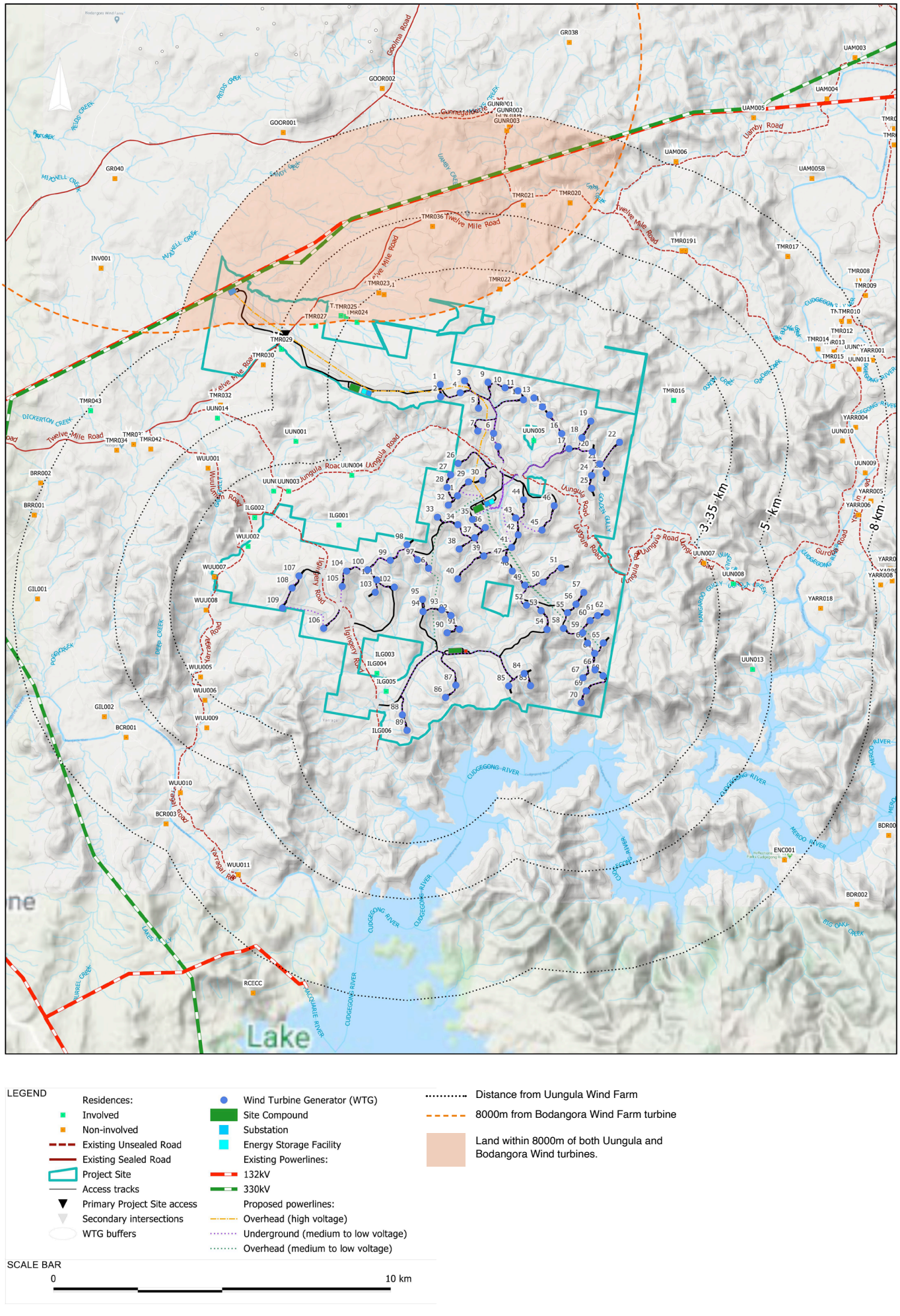


Figure 2: Residences within 8 kilometres of Bodangora & Uungula Wind Farms (Map Source: CWP Renewables)

Appendix A
Summary Tables

Table A1: Non-associated residences within 5000 metres

Non-associated residences within 5000m							
	Distance to nearest WTG:	WTGs within 3350m	WTGs within 3350 - 5000m	Number of sectors (2D Assessment)	Number of sectors (3D Assessment)	Visual Impact Rating	Cumulative Visual Impact Rating (with Bodangora WF)
TMR022	**2.78 km** *Turbine 9*	**6:** *1, 3, 4, 9, 10, 11*	**11:** *2, 5, 6, 7, 8, 12, 13, 14, 15, 16, 19*	**3**	**2**	*Moderate*	*Nil*
TMR023	**3.20 km** *Turbine 1*	**1:** *1*	**6:** *2, 3, 4, 5, 9, 10*	**2**	**2**	*Low*	*Low*
TMR031	**3.08 km** *Turbine 1*	**1:** *1*	**8:** *2, 3, 4, 5, 7, 9, 10, 11, 12*	**2**	**2**	*Low - Moderate*	*Nil - Low*
UUN007	**3.2 km** *Turbine 62*	**1:** *62*	**24:** *20, 21, 22, 23, 24, 25, 45, 46, 50, 51, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68*	**2**	**1**	*Low - Moderate*	*Nil*
WUU005	**3.17 km** *Turbine 109*	**1:** *109*	**4:** 105, 106, 107, 108	**2**	**2**	*Low - Moderate*	*Nil*
WUU007	**2.22 km** *Turbine 109*	**3:** *107, 108, 109*	**6:** *100, 101, 103, 104, 105, 106*	**2**	**2**	*Low - Moderate*	*Nil*
WUU008	**2.26 km** *Turbine 109*	**3:** *107, 108, 109*	**4:** *100, 104, 105, 106*	**1**	**1**	*Low*	*Nil*
TMR036	**4.62 km** *Turbine 3*	Nil	**3:** 1, 3, 9	**2**	**2**	*Low*	*Nil - Low*
WUU001	**4.17 km** *Turbine 107*	Nil	**3:** 107, 108, 109	**2**	**2**	*Moderate - High*	*Nil*
WUU006	**3.57 km** *Turbine 109*	Nil	**4:** 106, 107, 108, 109	**2**	**1**	*Low*	*Nil*
WUU009	**4.19 km** *Turbine 109*	Nil	**3:** 106, 108, 109	**2**	**1**	*Low - Moderate*	*Nil*

Table 2: Non-associated residences within 5000 - 8000 metres

Non-associated residences within 5000 - 8000m							
	Distance to nearest WTG:	WTGs within 3350m	WTGs within 3350 - 5000m	Number of sectors (2D Assessment)	Number of sectors (3D Assessment)	Visual Impact Rating	Cumulative Visual Impact Rating (with Bodangora WF)
BCR001	**7.6 km** *Turbine 109*	Nil	Nil	**1**	**0**	*Nil*	Nil
BCR003	**7.26 km** *Turbine 109*	Nil	Nil	**1**	**1**	*Low*	Nil
BRR001	**7.85 km** *Turbine 109*	Nil	Nil	**1**	**0**	*Nil*	Nil
ENC001	**7.6 km** *Turbine 70*	Nil	Nil	**1**	**1**	*Low*	Nil
GIL001	**7.26 km** *Turbine 109*	Nil	Nil	**1**	**0**	*Nil*	Nil
GIL002	**6.18 km** *Turbine 109*	Nil	Nil	**1**	**0**	*Nil*	Nil
GUNR001	**7.95 km** *Turbine 9*	Nil	Nil	**2**	**1**	*Low*	Nil
GUNR002	**7.79km** *Turbine 9*	Nil	Nil	**2**	**1**	*Low*	Nil
GUNR003	**7.47 km** *Turbine 9*	Nil	Nil	**2**	**1**	*Low*	Nil
GUNR004	**7.62 km** *Turbine 9*	Nil	Nil	**2**	**1**	*Low*	Nil

Non-associated residences within 5000 - 8000m							
TMR010	**7.69 km** *Turbine 22*	Nil	Nil	**1**	**1**	*Low*	Nil
TMR011	**7.49 km** *Turbine 22*	Nil	Nil	**1**	**1**	*Low*	Nil
TMR012	**7.24 km** *Turbine 22*	Nil	Nil	**1**	**1**	*Low*	Nil
TMR013	**6.89 km** *Turbine 22*	Nil	Nil	**1**	**1**	*Low*	Nil
TMR014	**6.50 km** *Turbine 22*	Nil	Nil	**1**	**1**	*Low*	Nil
TMR015	**6.71 km** *Turbine 22*	Nil	Nil	**1**	**1**	*Low*	Nil
TMR017	**7.42 km** *Turbine 22*	Nil	Nil	**1**	**0**	*Nil*	Nil
TMR018	**5.59 km** *Turbine 19*	Nil	Nil	**1**	**0**	*Nil*	Nil
TMR019	**5.59 km** *Turbine 19*	Nil	Nil	**1**	**1**	*Nil - Low*	Nil
TMR020	**5.77 km** *Turbine 13*	Nil	Nil	**2**	**1**	*Low*	Nil
TMR021	**5.35 km** *Turbine 9*	Nil	Nil	**2**	**1**	*Low*	Nil
TMR030	**5.26 km** *Turbine 1*	Nil	Nil	**2**	**1**	*Low*	Nil
TMR032	**5.56 km** *Turbine 107*	Nil	Nil	**2**	**1**	*Low*	Nil
TMR033	**6.26 km** *Turbine 107*	Nil	Nil	**1**	**1**	*Nil - Low*	Nil
TMR034	**6.56 km** *Turbine 107*	Nil	Nil	**1**	**1**	*Low*	Nil

Non-associated residences within 5000 - 8000m							
TMR041	**5.77 km** *Turbine 19*	Nil	Nil	**1**	**0**	Nil	Nil
TMR042	**5.78 km** *Turbine 107*	Nil	Nil	**1**	**1**	*Nil - Low*	Nil
UUN009	**7.27 km** *Turbine 22*	Nil	Nil	**1**	**0**	Nil	Nil
UUN010	**6.61 km** *Turbine 22*	Nil	Nil	**1**	**0**	Nil	Nil
UUN011	**7.42 km** *Turbine 22*	Nil	Nil	**1**	**0**	Nil	Nil
UUN012	**7.44 km** *Turbine 22*	Nil	Nil	**1**	**1**	*Low*	Nil
WUU010	**6.25 km** *Turbine 109*	Nil	Nil	**1**	**0**	Nil	Nil
WUU011	**6.57 km** *Turbine 89*	Nil	Nil	**1**	**0**	Nil	Nil
YARR001	**7.88 km** *Turbine 22*	Nil	Nil	**1**	**1**	*Low*	Nil
YARR004	**7.01 km** *Turbine 22*	Nil	Nil	**1**	**0**	Nil	Nil
YARR005	**7.7 km** *Turbine 22*	Nil	Nil	**1**	**1**	*Low*	Nil
YARR006	**7.4 km** *Turbine 22*	Nil	Nil	**1**	**1**	*Low*	Nil
YARR018	**6.3 km** *Turbine 62*	Nil	Nil	**2**	**1**	*Low - Moderate*	Nil

Table A3: Sensitive Viewpoints

Additional Information - Sensitive Viewpoints					
	Distance to nearest WTG:	WTGs within 3350m	WTGs within 3350 - 5000m	Visual Impact Rating	Cumulative Visual Impact Rating (with Bodangora WF)
VP10	**8.0 km** *Turbine 9*	*Nil*	*Nil*	*Low*	*Low*
VP11	**7.6 km** *Turbine 9*	*Nil*	*Nil*	*Low*	*Nil*
VP12	**6.1 km** *Turbine 13*	*Nil*	*Nil*	*Nil - Low*	*Nil*
VP15	**5.6 km** *Turbine 19*	*Nil*	*Nil*	*Nil*	*Nil*
VP16	**5.7 km** *Turbine 19*	*Nil*	*Nil*	*Nil*	*Nil*
VP17	**7.8 km** *Turbine 22*	*Nil*	*Nil*	*Low*	*Nil*
VP19	**7.6 km** *Turbine 22*	*Nil*	*Nil*	*Nil*	*Nil*
VP20	**7.48 km** *Turbine 22*	*Nil*	*Nil*	*Low*	*Nil*
VP21	**9.93 km** *Turbine 62*	*Nil*	*Nil*	*Nil - Low*	*Nil*
VP22	**6.5 km** *Turbine 68*	*Nil*	*Nil*	*Nil*	*Nil*
VP23	**6.6 km** *Turbine 89*	*Nil*	*Nil*	*Nil*	*Nil*
VP24	**3.6 km** *Turbine 109*	*Nil*	***4:*** *106, 107, 108, 109*	*Low*	*Nil*

Additional Information - Sensitive Viewpoints					
VP25	**3.1 km** *Turbine 109*	***1:*** *109*	***3:*** *106, 107 & 108*	*Low*	*Nil*
VP26	**2 km** *Turbine 109*	***3:*** *109, 108, 107*	***6:*** *100, 101, 103, 104, 105*	*Low - Moderate*	*Nil*
VP27	**2 km** *Turbine 109*	***3:*** *109, 108, 107*	***8:*** *99, 100, 101, 102, 103, 104, 105, 106*	*Moderate - High*	*Nil*
VP28	**2.3 km** *Turbine 107*	***3:*** *109, 108, 107*	***9:*** *98, 99, 100, 101, 102, 103, 104, 105, 106*	*Moderate - High*	*Nil*
VP29	**4.1 km** Turbine 107	*Nil*	***4:*** *104, 107, 108, 109*	*Moderate*	*Nil*
VP31	**2.6 km** *Turbine 107*	***3:*** *104, 107, 108*	***14:*** *105, 106, 100, 101, 102, 103, 99, 98, 97, 96, 33, 32, 28, 27*	*Moderate - High*	*Nil*
VP32	**1.6 km** *Turbine 107*	***12:*** *98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109*	***13:*** *93, 94, 95, 96, 97, 40, 38, 34, 33, 32, 31, 28, 27*	*Moderate - High*	*Nil*
VP33	**1.5 km** *Turbine 88*	***18:*** *86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 100, 101, 102, 103, 104, 105, 106, 109*	***12:*** *83, 84, 85, 38, 39, 40, 96, 97, 98, 99, 107, 108*	*High*	*Nil*

Additional Information - Sensitive Viewpoints					
VP34	**2.6 km** *Turbine 98*	***15:*** *2, 26, 27, 28, 29, 31, 32, 33, 34, 97, 98, 99, 100, 101, 104*	***27:*** *1, 3, 4, 5, 6, 7, 8, 9, 30, 35, 36, 37, 38, 39, 40, 43, 93, 94, 95, 96, 102, 103, 105, 106, 107, 108, 109*	*High*	*Nil*
VP35	**700m** *Turbine 8*	***43:*** *1 - 37, 41-46*	***15:*** *38, 39, 40, 48, 49, 50, 51, 52, 53, 55, 56, 57, 96, 97, 98*	*High*	*Nil*
VP36	**3.2 km** *Turbine 1*	**1:** *1*	**6:** *2, 3, 4, 5, 9, 10*	*Low*	*Low*
VP37	**3.1 km** *Turbine 1*	**1:** *1*	**8:** *2, 3, 4, 5, 7, 9, 10, 11, 12*	*Low - Moderate*	*Nil - Low*
VP38	**2.78 km** *Turbine 9*	**6:** *1, 3, 4, 9, 10, 11*	**11:** *2, 5, 6, 7, 8, 12, 13, 14, 15, 16, 19*	Moderate	*Nil*
VP39	**5.1 km** *Turbine 9*	*Nil*	*Nil*	*Low - Moderate*	*Nil*
VP40	**5.8 km** *Turbine 13*	*Nil*	*Nil*	Low	*Nil*
VP41	**7.2 km** *Turbine 22*	*Nil*	*Nil*	*Nil*	*Nil*
VP42	**7.05 km** *Turbine 22*	*Nil*	*Nil*	*Nil*	*Nil*

Additional Information - Sensitive Viewpoints					
VP43	**3.85 km** *Turbine 62*	*Nil*	***13:*** *23, 55, 56, 57, 59, 60, 61, 62, 63, 64, 65, 66, 68*	*Moderate*	*Nil*
VP44	**7.7 km** *Turbine 68*	*Nil*	*Nil*	*Low*	*Nil*
VP45	**2.1 km** *Turbine 109*	**3:** *107, 108, 109*	**4:** *100, 104, 105, 106*	*Low*	*Nil*
VP46	**4.17 km** *Turbine 107*	Nil	**3:** 107, 108, 109	*Moderate - High*	*Nil*

WIND

UUNGULA WIND FARM (SSD-6687)

Response to Request for Additional Information
Appendix B

22 January 2021

Version	1
Author	Matthew Flower
Client	Uungula Wind Farm Pty Ltd

cwp renewables

Table B1: Schedule of Road Upgrades

Reference in Figure	Road / Intersection	Location	Upgrade Summary	Upgrades Proposed
1	Twelve Mile Road and Goolma Road Intersection	Intersection	Twelve Mile Road and Goolma Road Intersection	Twelve Mile Road intersection with Goolma Road will be upgraded prior to the commencement of construction generally in accordance with the drawing set entitled 'TMR/Goolma Road Intersection Preliminary Upgrade Design - Version 2 (Appendix F to the Project Amendment Report).
2	Twelve Mile Road	Chainage 0km-13.8km (primary Project site entry) (measured from existing Goolma Road intersection)	Twelve Mile Road upgrade	Twelve Mile Road will be upgraded prior to the commencement of construction generally in accordance with the drawing set included in the EIS as Appendix N. (noting these drawings remain subject to detailed investigations and design).
3	Twelve Mile Road	Primary Project Site entry	Primary Project Site entry creation	Construct intersection according to Section 138 (Roads Act) requirements for safe exit and entry movements and to provide adequate wind farm component access.
4	Uungula Road	Project access road intersections	Project access road intersections creation	Construct intersections according to Section 138 (Roads Act) requirements for safe exit and entry movements and to provide adequate wind farm component access.
5	Ilgingery Road	Project access road intersections	Project access road intersections creation	Construct intersections according to Section 138 (Roads Act) requirements for safe exit and entry movements and to provide adequate wind farm component access.
6	Ilgingery Road	3.89km (measured from Wuuluman Road intersection)	Ilgingery Road stock grid replacement (at 3.89km from Wuuluman Road)	Extend stock grid approach seal to 20m x 4.5m each side of grid with a two coat flush seal.