



**ROAD CONDITION ASSESSMENT
(BEFORE CONSTRUCTION)**

NEOEN CULCAIRN SOLAR FARM

(Benambra Road, between the Olympic Highway
intersection and the Weeamera Road intersection)

(Weeamera Road between Benambra Road and the site
access point)

Prepared for

NEOEN

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1.0 INTRODUCTION

1.1 Background

Rytenskild Traffic Engineering (RTE) has been engaged by Neoen to carry out an assessment of existing road surface conditions for the Neoen Cuclairn Solar Farm project at Walla Walla.

This report is a pre-project conditions assessment with inspections carried out on 4th of July 2023 and 26th of July 2023. The second visit was carried out due to wet weather conditions experienced in early July, however the images from the 4th July visit have been included.

1.2 Study area

In accordance with the approval, the conditions assessment was carried out for the following sections of road:

- Benambra Road, between the Olympic Highway intersection and the Weeamera Road intersection (approximately 3.8 kilometres);
- Weeamera Road between Benambra Road and the site access point (approximately 3.5 kilometres).

The assessment included the Olympic Highway / Benambra Road intersection.



FIGURE 1.1 –STUDY AREA

2.0 SURVEYED PAVEMENT CONDITION

2.1 Method

The existing condition of the section of road in the study area have been inspected with significant points of pavement failure located and photographed.

A photographic survey has been carried out for the route, with chainage points and points of pavement failure tagged from the vehicle tripmeter. Points of interest and their location were noted.

2.2 Observed pavement condition

The existing pavement condition was inspected by Luke Rytenskild RPEQ in July 2023. These conditions are described as follows:

Shoving	Shoving: Bulging and horizontal deformation of the road surface – generally, occurs in areas of high shear stress. Plastic flow: Deformation in asphalt of asphalt surfaces.
Edge break	Occurs along the unsupported edges of asphalt or sprayed seal surfaces where the surface of an unsealed shoulder is below the level of the adjacent pavement surface. Seal/shoulder interface is directly trafficked resulting in abrasion and shear failure of pavement edge.
Potholing	A steep-sided or bowl-shaped cavity extending into layers below the wearing course.
Patches	A repaired section of pavement ranging in size from less than 1 m ² to many linear metres of a half or even full pavement width.

Benambra Road generally has a sealed pavement width of 7 metres with grass / gravel shoulders. The road pavement is generally in good condition, with isolated sections of failure, mainly pot holing.

There is an unsealed section of Weeamera Road between the Boral access and the site access, which has a length of approximately:

- 3.73 kilometres to the Weeamera turn off and;
- The Weeamera Road is 2.05 kilometres to the Boral turn off and;
- It is 3.5 kilometres to the site access.

This section has regular corrugations and rutting.

2.3 Photographic imagery

Images of the road conditions are shown in Appendix A. Images were taken commencing from the eastern end of Benambra Road to the site access, and then returning to the Olympic Highway / Benambra Road intersection.

APPENDIX A – IMAGES OF ROAD PAVEMENT CONDITIONS

4 July 2023 inspection Olympic Hwy



Benambra Road, commencing just west of Olympic Hwy



0.1 km



0.2 km





0.4 km





0.8 km







1.4 km





1.6 km















3.6 km













4.8 km







5.3 km







5.7 km



















Travelling south on Weeamera Road from Boral site









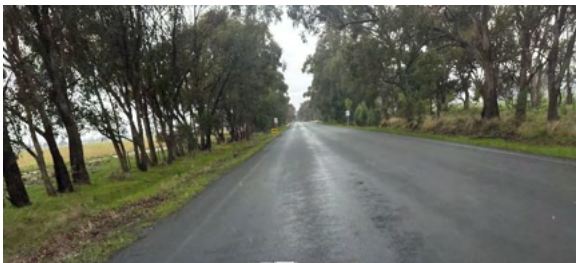




2.0 km

















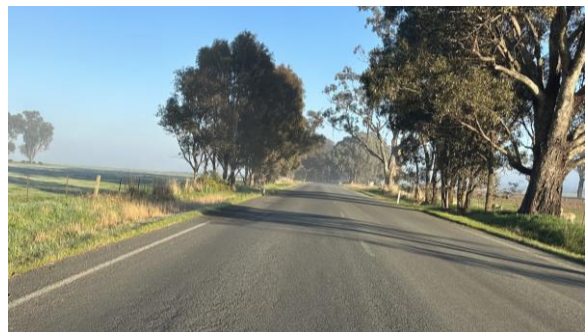








26 July 2023 inspection - 0.0km (Benambra Road just west of Olympic Hwy)



Approx 2km









