



**mainroads**  
WESTERN AUSTRALIA

# EPBC 2016/7761 Annual Compliance Report

Great Northern Highway Upgrade Stage 2:  
Muchea to Wubin

29 May 2022 – 29 May 2023

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# Document Control

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# 1 INTRODUCTION

Great Northern Highway forms part of the National Highway Network and provides a strategic freight link between Perth and the State's north as well as Darwin and the Northern Territory. Between 2000 and 2009, Stage One of the Great Northern Highway Muchea to Wubin Upgrade project was completed, which saw 76 km of the highway upgraded.

In 2014 a comprehensive planning review was undertaken of the full Muchea to Wubin link along the highway. A series of construction packages were prioritised following the review, which include town bypasses, wider roads, more passing lanes, flattening crests and easing curves, safer roadsides, more rest stops and additional facilities for heavy vehicles.

Jointly funded by the Australian and Western Australian Governments, the \$384.8 million project will improve road safety, increase freight efficiency and reduce traffic delays, improve travel times and access, improve roadside amenities, and enhance the environmental value of roadsides.

The key objectives for the project include:

- Improved safety
- Increased freight efficiency and reduced traffic delays
- Improved network reliability - improving travel times and enhancing network access
- Enhanced travel wellbeing - improvements in roadside amenities for rest and driver information
- Contribution to sustainable and viable communities - by balancing community concerns, economic, community safety and network access issues
- Enhancement of the environment - by undertaking practices to retain and improve the environmental value of roadsides.

## 1.1 Approval under the Environment Protection and Biodiversity Conservation Act 1999

Proposed construction of the Walebing, Miling Bypass, Pithara and Dalwallinu to Wubin packages were referred to the Department of the Environment and Energy (DoEE; 'the Department'; now the Department of Climate Change, Energy, the Environment and Water) for assessment under the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act). The referral was determined to be a controlled action with the controlling provision being "listed threatened species and communities", namely Carnaby's Black Cockatoo (*Zanda latirostris*) and the Eucalypt Woodlands of the Western Australian Wheatbelt Threatened Ecological Community (Eucalypt Woodlands TEC). The referred works were assessed through Preliminary Documentation. The Department issued conditional approval for these works to proceed on 19 February 2018 (EPBC 2016/7761).

### 1.1.1 Purpose of this Report

The Action commenced on 29 May 2018. This compliance report has been produced as required by Condition 10 of EPBC approval 2016/7761. Table 1 of this report outlines the compliance with each approval condition over the 12-month period between 29 May 2022 and 29 May 2023.

Works pertaining to EPBC 2016/7761 were undertaken in the reporting period in the Dalwallinu to Wubin package. The Action has not yet been completed, and reporting will continue annually as required under Condition 10.

## 2 COMPLIANCE

Condition No.	Condition	Status																								
1	The approval holder must not clear more than 30 hectares of Carnaby's Black Cockatoo habitat and 15 hectares of Eucalypt Woodlands TEC within the project area shown as Attachment 1.	<p>Compliant. The Carnaby's Black Cockatoo habitat and Eucalypt Woodlands TEC clearance to date is detailed below.</p> <table border="1"> <thead> <tr> <th>Year</th> <th>Carnaby's Cockatoo Habitat (ha)</th> <th>Eucalypt Woodlands TEC (ha)</th> </tr> </thead> <tbody> <tr> <td>2018</td> <td>12.5</td> <td>0.6</td> </tr> <tr> <td>2019</td> <td>2.29</td> <td>2.14</td> </tr> <tr> <td>2020</td> <td>2.14</td> <td>3.52</td> </tr> <tr> <td>2021</td> <td>0</td> <td>0</td> </tr> <tr> <td>2022</td> <td>0.81</td> <td>0.14</td> </tr> <tr> <td><b>Total Cleared</b></td> <td>18.09</td> <td>6.4</td> </tr> <tr> <td><b>Remaining Allowance</b></td> <td>11.91</td> <td>8.6</td> </tr> </tbody> </table>	Year	Carnaby's Cockatoo Habitat (ha)	Eucalypt Woodlands TEC (ha)	2018	12.5	0.6	2019	2.29	2.14	2020	2.14	3.52	2021	0	0	2022	0.81	0.14	<b>Total Cleared</b>	18.09	6.4	<b>Remaining Allowance</b>	11.91	8.6
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2	The approval holder must not clear any suitable nesting hollow or known nesting hollow for the Carnaby's Black Cockatoo.	<p>Compliant.</p> <p>No suitable nesting hollows or known nesting hollows for Carnaby's Black Cockatoo have been cleared within the project area during the 2022 – 2023 reporting period.</p>																								
3	Within 7 days prior to clearing of any area of Carnaby's Black Cockatoo habitat, the approval holder must investigate all potential nesting trees within the area to be cleared to determine if there are any hollows additional to those identified in Condition 2 that are being utilised, or are capable of being utilised, by the Carnaby's Black Cockatoos for nesting. The investigation must be undertaken by a suitably qualified person.	<p>Compliant.</p> <p>a) All potential nesting trees within the approved area to be cleared were investigated no more than 7 days prior to each clearing event. An inspection memo is provided in Annex A which confirms no suitable Carnaby's Black</p>																								

Condition No.	Condition	Status
	<ul style="list-style-type: none"> <li>a. If any Carnaby's Black Cockatoo(s) is detected utilising any hollow in any tree, the approval holder must:                             <ul style="list-style-type: none"> <li>i. clearly identify and mark the newly identified nesting tree; and</li> <li>ii. only clear the newly identified nesting tree, or vegetation within a 10 metre radius of the tree, if a suitably qualified person has verified that the hollows in the tree are no longer being used by Carnaby's Black Cockatoos.</li> </ul> </li> <li>b. For each cleared hollow that is being utilised, or capable of being utilised by Carnaby's Black Cockatoo, that is additional to the nesting hollows identified in Condition 2, the proponent must install at least three (3) artificial nesting hollows, where the artificial nesting hollows must be:                             <ul style="list-style-type: none"> <li>i. installed within a 12 km radius of the cleared nesting tree(s);</li> <li>ii. constructed, positioned, erected and maintained in accordance with relevant artificial hollow guidance, to maximise the likelihood that the artificial nesting hollows are utilised by the Carnaby's Black Cockatoo;</li> <li>iii. installed before the commencement of the following breeding season for the Carnaby's Black Cockatoo; and</li> <li>iv. inspected and maintained at least annually to check for condition and evidence of Carnaby's Black Cockatoo usage.</li> </ul> </li> </ul>	<p>Cockatoo hollows were identified in the trees to be removed within the development envelope.</p> <p>b) No Carnaby's Black Cockatoo suitable hollows were cleared during the reporting period.</p>
4	<p>To mitigate impacts to the Carnaby's Black Cockatoo and the Eucalypt Woodlands TEC, the approval holder must prepare and submit a Construction Environmental Management Plan (CEMP) for the approval of the Minister. The approval holder must not commence the action unless the Minister has approved the CEMP.</p> <p>The CEMP must be prepared in accordance with the Department's Environmental Management Plan Guidelines and include, but not be limited to:</p> <ul style="list-style-type: none"> <li>a. design principles and practices to minimise clearing of Carnaby's Black Cockatoo habitat and the Eucalypt Woodlands TEC – for example, road micro-alignment, traffic management alternatives to side roads;</li> </ul>	<p>Compliant.</p> <p>The Minister approved the CEMP on 11 May 2018. Main Roads has implemented the approved CEMP. No changes have been made to the CEMP since the initial approved by the Minister.</p>

Condition No.	Condition	Status
	<ul style="list-style-type: none"> <li>b. measures to prevent impacts to Carnaby's Black Cockatoo habitat and the Eucalypt Woodlands TEC during construction, including to:                             <ul style="list-style-type: none"> <li>i. prevent and/or control site access, weeds, <i>Phytophthora</i> dieback, erosion, dust and fire;</li> <li>ii. minimise the impacts of excavation activities to the lateral root system of the Eucalypt Woodlands TEC; and</li> <li>iii. delineate vegetation to be retained through, for example, the erection of temporary fencing or signage to avoid accidental clearing or disturbance outside of the impact area.</li> </ul> </li> <li>c. management measures, including in relation to fencing and access controls, to permanently restrict human and stock access to adjacent road reserves;</li> <li>d. objectives, targets and completion criteria for post construction rehabilitation measures such as site clean-up and weed management, including information on the mapping, monitoring and removal of noxious weeds;</li> <li>e. objectives, targets and completion criteria for landscaping and revegetation works on cleared areas of land and redundant sections of carriageway, with flora species to be planted that are identified as known foraging and breeding habitat for the Carnaby's Black Cockatoo (this should include detail on site preparation works, seedling planting programs, success rates, ongoing management post establishment and details of replanting requirements if success rates are not achieved):                             <ul style="list-style-type: none"> <li>i. flora species identified as known foraging and breeding habitat for the Carnaby's Black Cockatoo must not be planted within 10 metres of the road carriageway to reduce the risk of vehicle strike.</li> </ul> </li> <li>f. clear objectives and performance indicators for all management actions, mitigation measures and practices prescribed by the CEMP including details of the monitoring to be undertaken to demonstrate the effectiveness of the measures;</li> <li>g. corrective actions for circumstances where an action, mitigation measure or practice prescribed by the CEMP fails to meet, or is unlikely to meet, its</li> </ul>	

Condition No.	Condition	Status
	<p>prescribed objective, and trigger action points at which these corrective actions will be implemented; and</p> <p>h. timeframes for implementing the above measures.</p> <p>If the Minister approved the CEMP, then the approved CEMP must be implemented.</p>	
5	<p>To mitigate impacts to habitat for the <i>Eremophila pinnatifida</i> the approval holder must implement condition 8 of Clearing Permit CPS 7231/1.</p>	<p>Not applicable.</p> <p>Works triggering the implementation of Condition 8 of Clearing Permit CPS 7231/3 (clearing of Population 3 of <i>Eremophila pinnatifida</i>) have not occurred to date during construction of the Action.</p>
6	<p>To compensate for the loss of up to 30 hectares of Carnaby’s Black Cockatoo habitat, the approval holder must, within one (1) year after the commencement of the action, provide the Department with the offset attributes, shapefiles and textual descriptions and maps to clearly define the location and boundaries of the offset area identified in Attachment 3, that the approval holder has transferred to the DBCA.</p>	<p>Compliant.</p> <p>Main Roads allocated 159 ha of the previously acquired Lot 1, 1395 Banovich Road, Hill River to meet the requirements of this offset. The property has been added to the conservation estate and is being managed by the DBCA. The details of this site as required under this condition, including offset attributes, shapefiles and a textual description, were provided to the Department by email (Post Approvals) on 8 November 2018.</p>
7	<p>To compensate for the loss of up to 15 hectares of Eucalypt Woodlands TEC, the approval holder must, within one (1) year of the commencement of the action, or as otherwise agreed to by the Minister:</p> <p>a. submit to the Minister for approval the details of an offset site(s) that:</p> <p>i. is to be acquired and managed for conservation;</p>	<p>Compliant.</p> <p>Main Roads has acquired Lot 500, Yenyening Lakes Road, Brookton, on which 134.1 ha of Eucalypt Woodlands TEC occur. Offset attributes, shapefiles and a textual description of the offset area were provided to the</p>

Condition No.	Condition	Status
	<ul style="list-style-type: none"> <li>ii. includes a minimum of 134.1 hectares of Eucalypt Woodlands TEC at Lot 500, Yenyening, Western Australia ; and</li> <li>iii. meets the requirements of the EPBC Environmental Offsets Policy.</li> <li>b. make a financial contribution to an approved conservation fund to fully fund the purchase and management for conservation of the approved offset site;</li> <li>c. provide written evidence to the Department that the financial contribution:                             <ul style="list-style-type: none"> <li>i. has been made to the approved conservation fund; and</li> <li>ii. has fully funded the purchase and management of the offset site.</li> </ul> </li> <li>d. provide the Department with the offset attributes, shapefiles and textual descriptions and maps to clearly define the location and boundaries of the offset site.</li> </ul>	<p>Department by email (Vaughn Cox and Post Approvals) on 24 May 2019.</p> <p>Main Roads requested a variation to EPBC 2016/7761 Condition 7 in accordance with EPBC Act Section 143(1B) (email from Main Roads to Post Approvals 7 October 2019). The Department varied the Condition as confirmed in a letter to Main Roads on 18 July 2020 which included a Variation of Conditions Attached to Approval.</p>
8	<p>Within 30 days after the commencement of the action, the approval holder must advise the Department in writing of the actual date of commencement.</p>	<p>Compliant.</p> <p>The action commenced on 29 May 2018, with written notification provided to the Department by email on 31 May 2018.</p>
9	<p>The approval holder must maintain accurate records substantiating all activities associated with or relevant to the conditions of approval, including measures taken to implement the plan required by this approval (Condition 4), and make them available upon request to the Department. Such records may be subject to audit by the Department of an independent auditor in accordance with section 458 of the EPBC Act or used to verify compliance with the conditions of this approval. Summaries of audits will be posted on the Department’s website. The results of audits may also be publicised through the general media.</p>	<p>Compliant.</p> <p>Main Roads has maintained records in accordance with this condition and their legal obligations under the <i>WA State Records Act 2000</i>.</p>
10	<p>Within three months of every 12-month anniversary of the commencement of the action, the approval holder must publish a report on their website addressing compliance with each of the conditions of this approval, including implementation of any management plans as specified in the conditions. Documentary evidence providing proof of the date of publication and non-compliance with any of the conditions of this approval must be provided to the Department at the same time</p>	<p>Compliant.</p> <p>This 2022/2023 Compliance Assessment Report will be published on the Main Roads website at the same time as the provision of this report to the Department.</p>

Condition No.	Condition	Status
	as the compliance report is published. Reports must remain on the website for the life of this approval. The approval holder must continue to comply with this condition until such time as agreed to in writing by the Minister.	
11	Upon the direction of the Minister, the approval holder must ensure that an independent audit of compliance with the conditions of approval is conducted and a report submitted to the Minister. The independent auditor must be approved by the Minister prior to the commencement of the audit. Audit criteria must be agreed to by the Minister and the audit report must address the criteria to the satisfaction of the Minister.	Not applicable.  The Minister has not yet directed Main Roads to conduct an independent audit of compliance with EPBC 2016/7761's conditions of approval.
12	The approval holder may choose to revise a management plan approved by the Minister under condition 4 without submitting it for approval under section 143A of the EPBC Act, if the taking of the action in accordance with the revised plan would not be likely to have a new or increased impact. If the approval holder makes this choice they must notify the Department in writing that the approved plan has been revised and provide the Department, at least four weeks before implementing the revised plan, with: <ul style="list-style-type: none"> <li>a. an electronic copy of the revised plan;</li> <li>b. an explanation of the differences between the revised plan and the approved plan; and</li> <li>c. the reasons the approval holder considers that taking the action in accordance with the revised plan would not be likely to have a new or increased impact.</li> </ul>	Not applicable.  The approved CEMP has not been revised to date.
13	The approval holder may revoke their choice under condition 12 at any time by notice to the Department. If the approval holder revokes the choice to implement a revised plan, without approval under section 143A of the Act, the plan approved by the Minister must be implemented.	Not applicable.  The approved CEMP has not been revised as allowed for under condition 12. Condition 13 has therefore not come into effect.
14	If the Minister gives a notice to the approval holder that the Minister is satisfied that the taking of the action in accordance with the revised plan would be likely to have a new or increased impact, then:	Not applicable.

Condition No.	Condition	Status
	<p>a. Condition 12 does not apply, or ceases to apply, in relation to the revised plan; and</p> <p>b. The approval holder must implement the plan approved by the Minister.</p> <p>To avoid any doubt, this condition does not affect any operation of conditions 12 and 13 in the period before the day the notice is given.</p>	<p>The approved CEMP has not been revised to date.</p>
15	<p>Conditions 12, 13 and 14 are not intended to limit the operation of section 143A of the EPBC Act which allows the approval holder to submit a revised plan to the Minister for approval.</p>	<p>Not applicable.</p> <p>The approved CEMP has not been revised to date.</p>
16	<p>Unless otherwise agreed to in writing by the Minister, the approval holder must publish all management plans referred to in these conditions of approval on their website for the duration of this approval. Each management plan must be published on the website within 1 month of being approved by the Minister or being submitted under condition 12 and must remain on the website for the life of this approval.</p>	<p>Compliant.</p> <p>The approved CEMP was first published on Main Roads' website on 25 May 2018. <a href="#">The plan is available here.</a></p> <p>(<a href="https://www.mainroads.wa.gov.au/globalassets/community-environment/environment/construction-reports/great-northern-highway-upgrade-walebing-to-wubin-construction-environmental-management-plan.pdf">https://www.mainroads.wa.gov.au/globalassets/community-environment/environment/construction-reports/great-northern-highway-upgrade-walebing-to-wubin-construction-environmental-management-plan.pdf</a>)</p>

**Annex A - Pre-clearing inspection/survey of Carnaby's Cockatoo Habitat, Dalwallinu.**

**Memo report**  
**Pre-clearing inspection/survey of Carnaby's Cockatoo Habitat,**  
**Dalwallinu.**

The purpose of the survey was to reinspect possible Carnaby's Cockatoo (*Calyptorhynchus latirostris*) breeding habitat at Great Northern Highway, Dalwallinu. The trees were located in a previous survey undertaken by Phoenix Environmental Services (2016)

The current inspection was undertaken on 27<sup>th</sup> May 2022 which is outside Carnaby's Cockatoo breeding season (July – December egg laying dates).

The survey was undertaken by Tony Kirkby who has over 20 years of experience conducting black cockatoo surveys in the south-west of Western Australia.

**Nest tree and hollow information.**

To be large enough to form a hollow suitable to be used by Carnaby's Cockatoo most trees need to have reached a diameter at breast height (DBH) of at least 500mm. Exceptions to this are Wandoo and Salmon Gum which need to have reached 300mm DBH. Carnaby's Cockatoo breeding hollows need to have an entrance of at least 120mm diameter and lead to a sheltered nest chamber of 300mm diameter or larger.

**Tree locations.**

<b>WUBIN SOUTH SECTION</b>		<b>COMMENTS FROM ORIGINAL SURVEY</b>	<b>COMMENTS CURRENT SURVEY</b>
<b>SLK</b>			
226.29		Eucalyptus longicornis - small potential hollow - slk issue	Hollow too small
226.24		Eucalyptus salubris - (could be spathulata) 1 dead trunk with potential hollow	Hollow too small
226.25		Eucalyptus salubris - (could be spathulata) 1 potential hollow, dead branch to ground	Hollow too small
231.72		Eucalyptus torquata - planted, rotten tree, split in trunk, good hollow	Hollow too small
<b>H006 Wubin North Section 234.4 - 239.75</b>		<b>COMMENTS FROM ORIGINAL SURVEY</b>	<b>COMMENTS CURRENT SURVEY</b>
<b>SLK</b>			
239.84		Eucalyptus salubris, no obvious hollows, not particularly significant	No hollows
239.19		Eucalyptus longicornis	No hollows
236.8		Eucalyptus salmonophloia, has spouts, no obvious hollows	No hollows

A Salmon Gum located just to the east of the survey area at 468339E - 6656785N was also inspected. This tree had a 'hollow' but the floor of the hollow could be seen and it was unsuitable for Carnaby's Cockatoo.

Of the trees listed in the table above the only species known to provide Carnaby's Cockatoo breeding hollows to date is Salmon Gum (*Eucalyptus salmonophloia*). None of the trees inspected contained hollows suitable for use by Carnaby's Cockatoo.

Carnaby's Cockatoo were not seen or heard during the survey.

Tony Kirkby

29<sup>th</sup> May 2022.