



Compliance Report

EPBC 2016/7665

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Toodyay Road Widening and Upgrade Project

Reporting period: 21 January 2024 to 20 January 2025

Document Control

Report Compilation & Review	Position	Document Revision	Date
Author:	DH, Environment Officer	Draft vA	10/04/2025
Reviewer:	PW, Principal Environment Officer	Draft vB	16/04/2025
Author:	DH, Environment Officer	Rev 0	17/4/2025
Reviewer	PW, Principal Environment Officer	Rev 0	17/04/2025

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		Artificial Hollow Repair Report – April 2024	

Declaration of accuracy

In making this declaration, I am aware that sections 490 and 491 of the Environment Protection and Biodiversity Conservation Act 1999 (Cth) (EPBC Act) make it an offence in certain circumstances to knowingly provide false or misleading information or documents. The offence is punishable on conviction by imprisonment or a fine, or both. I declare that all the information and documentation supporting this compliance report is true and correct in every particular. I am authorised to bind the approval holder to this declaration and that I have no knowledge of that authorisation being revoked at the time of making this declaration.

Signed	Marke	Schul	_ (approval holde	er)	
Full name (p	olease print) _	Martine Scheltema			
Position (pl	ease print) <u> </u>	Director Environment and	d Heritage		
Organisatio 50 860 676		t including ABN/ACN if	applicable) <u>Mair</u>	n Roads Western	Australia (ABN
Date 17	/_04 / 2	2025			

1 Introduction

1.1 Project Background, Location and Status

Main Roads Western Australia (Main Roads) is currently undertaking widening and upgrade of Toodyay Road between 12.71 and 40.14 Straight Line Kilometre (SLK), in the Shire of Toodyay (the Project). The upgrade intends to improve the safety and efficiency of Toodyay Road by widening the road to meet current design standards, realigning sections to remove substandard curves and increase sightlines, intersection improvements, new overtaking lanes and drainage improvements.

Project implementation commenced on 21 January 2019. The Project is being delivered in stages based on funding availability and 2 stages of the project (Stages 3 and 6) have been completed. During the reporting period, the only activity undertaken was service relocation works in preparation for the next stage of road construction.

1.2 Approval under the *Environment Protection and Biodiversity Conservation Act* 1999

The Project was referred for assessment under the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act) in March 2016. The project was determined to be a controlled action on 8 April 2016 due to its potential impacts on listed threatened species and communities. The project was approved subject to conditions under the EPBC Act on 4 December 2018 (EPBC 2016/7665).

1.3 Purpose of this Report

This compliance report has been produced to satisfy Condition 12 of approval EPBC 2016/7665.

2 Summary of Compliance

The Project was found to be fully compliant with the requirements of approval EPBC 2016/7665. Table 1 of this report details the project's compliance with regard to each approval condition over the 12 month reporting period: 21 January 2024 to 20 January 2025. Conditions deemed completed are shaded grey.

2.1 New Environmental Risks

No new environmental risks for the project have become apparent during the reporting period.

Table 1: Compliance with Conditions of EPBC Approval 2016/7665

Condition Number	Condition	Status	Evidence/Comments
1	For the protection of the protected matters in the project area, the approval holder must not clear more than: a) 54.87 hectares within the project area; and b) 94 suitable nesting hollows.	Compliant	 a) A total of 0.02hectares of clearing was undertaken in the reporting period (TRIM: D25#196986). Since the commencement of the action a total of 8.38 hectares has been cleared within the project area. No clearing has occurred outside the project area. b) No suitable nesting hollows were cleared during the reporting period. Since the commencement of the action a total of 2 suitable nesting hollows have been cleared.
2	If the approval holder intends to clear one or two known nesting hollows, it must demonstrate that all avoidance and mitigation measures have been implemented and obtain separate written agreement of the Department before commencing such clearing.	Not Applicable	No known nesting hollows have been cleared during the reporting period. Since the commencement of the action no known nesting hollows have been cleared.
3	The approval holder must establish and maintain a register of the locations and other relevant details of all suitable nesting hollows and known nesting hollows identified within the project area.	Compliant	A register of all suitable nesting hollows and known nesting hollows identified within the project area has been established (TRIM: D23843814) and a copy of the register can be made available to the Department upon request.
	Within 48 hours prior to clearing of suitable nesting hollows and known nesting hollows during the Black Cockatoo breeding season (between 1 June and 28 February of every year) the approval holder must:		No suitable or known nesting hollows were removed during the reporting period and therefore no inspections were undertaken.
	a) clearly identify suitable nesting hollows and known nesting hollows within the project area and update the register;		
	b) ensure that a suitably qualified person monitors all known nesting hollows to determine when chick(s) have fledged.		

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Condition Number	Condition	Status	Evidence/Comments
4	The approval holder must not clear any vegetation within a 10 metre radius of known nesting hollows until a suitably qualified person has verified that the Black Cockatoo chick(s) in that known nesting hollow has fledged.	Not Applicable	No works were undertaken within 10 metres of a known nesting tree during the reporting period.
5	To mitigate and offset the impacts to Black Cockatoos, within	Compliant	Installation
	six months of clearing suitable nesting hollows and known nesting hollows, the approval holder must install at least two artificial nesting hollows for each suitable nesting hollow cleared and five artificial nesting hollows for each known nesting hollow cleared. Each artificial nesting hollow must:		No suitable or known nesting hollows were cleared in 2024 and therefore no artificial nesting hollows were required to be installed during the reporting period.
			To date, all hollows have been installed in DBCA legislated lands (Julimar State Forest) according to DBCA's (formerly DPAW) guideline for
	a) be installed either within the offset area, DBCA legislated lands and Waters or another location approved in writing		installation and all hollows are more than 10 metres from the edge of any road corridor.
	 by the Minister; b) be inspected by a suitably qualified person on at least two days (separated by at least a week) during the peak breeding season every year for the life of the approval. The suitably qualified person must record any evidence of use by Black Cockatoos and identify and report to the approval holder any maintenance required to ensure that all artificial nesting hollows remain suitable for use by 		Monitoring
			Two inspections of all installed nesting hollows were undertaken by Rick Dawson from Australian Black Cockatoo Specialists (refer to Condition 13 for qualifications) on 25 October 2024 and 21 December 2024. The monitoring was conducted in accordance with DBCA's and CSIRO monitoring guidelines and the outcome of this monitoring are provided in Attachment A and B (TRIM: D24#1427811and D25#18256).
	Black Cockatoos;		<u>Maintenance</u>
	c) be installed, monitored and maintained in accordance with artificial hollow guidance for the life of the approval, with maintenance actions, if required, undertaken outside of the peak breeding season and before the commencement of the next breeding season; and		The 2023 monitoring of the artificial hollows recommended maintenance of the nine hollows that were used by Black Cockatoos in the 2023 breeding season. Replenishment of woodchips and replacement of sacrificial posts in these hollows was conducted on the 15 April 2024 (Attachment C, TRIM: D24#685746).
	d) not be installed in a manner that requires clearing of Black Cockatoo habitat or (to reduce the risk of vehicle strike) within 10 metres of the edge of any road corridor.		The recent October and December 2024 monitoring reports indicated that because of the regular maintenance the hollows have been receiving, no maintenance or repairs were needed before the 2025 breeding season.

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Condition Number	Condition	Status	Evidence/Comments
6	To offset residual significant impacts to the protected matters, within one year of the commencement of the action the approval holder must provide the following to the Department: a) title search results demonstrating that the title for at least 196 ha of Black Cockatoo habitat and at least 128 ha of Chuditch habitat within the offset area has been transferred by the approval holder to the DBCA; b) evidence that the offset area contains at least 196 ha of Black Cockatoo habitat and at least 128 ha of Chuditch habitat; c) the offset attributes and a shapefile for the offset area required by condition 6.a; d) documentation demonstrating that the DBCA is satisfied with the amount and timing of management funding to be provided by the approval holder for the ongoing management of the offset area.	Compliant	 Main Roads previously reported partial non-compliance with this condition to the Department on 5 March 2020. This related to the submission of all relevant documentation later than one year of the commencement of the action (i.e., after 21 January 2021). All requirements of this condition have been completed since February 2022: a. As reported in the 2019-20 compliance report, the title search results were provided to the Department on 12 March 2020. b. Evidence of the suitability of the offset site for Black Cockatoos and the Chuditch was provided to the Department on 29 March 2018, 19 November 2018, and 12 March 2020. c. The final offset attributes and a shapefile of the offset area were provided to the Department on 12 March 2020. d. Evidence of DBCA's management requirements and Main Roads agreement to these was provided to the Department on 12 March 2020. A Memorandum of Understanding (MoU) between Main Roads and DBCA to formalise this agreement was signed in September 2020. A copy of this MoU was provided to Main Roads in March 2021 and was provided to the Department on 3 February 2022.
7	The approval holder must notify the Department in writing of the date of commencement of the action within 10 business days after the date of commencement of the action.	Compliant	The action commenced on 21 January 2019. Main Roads notified the Department of commencement of the action in writing on 31 January 2019 (8 business days, considering public holiday on 28 January). All requirements of this condition have been completed.
8	If the commencement of the action does not occur within 5 years from the date of this approval, then the approval holder must not commence the action without the prior written agreement of the Minister.	Not applicable	The project was approved on 4 December 2018 and the action was commenced on 21 January 2019. All requirements of this condition have been completed.

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Condition Number	Condition	Status	Evidence/Comments
9	The approval holder must maintain accurate and complete compliance records.	Compliant	Main Roads has maintained records in accordance with this condition and their legal obligations, under the State Records Act 2000 (Western Australia). Records of compliance with the approval are maintained in Main Roads' Electronic Document & Records Management System (TRIM).
10	If the Department makes a request in writing, the approval holder must provide electronic copies of compliance records to the Department within the timeframe specified in the request.	Not Applicable	To date, the Department has not requested electronic copies of any compliance records.
11	The approval holder must ensure that any monitoring data (including sensitive ecological data), surveys, maps, and other spatial and metadata required under conditions of this approval, is prepared in accordance with the Department's <i>Guidelines for biological survey and mapped data</i> (2018) and submitted electronically to the Department within three months of the submission of the compliance report.	Not Applicable	To date, no biological survey data has been required to be submitted under conditions of this approval.
12	The approval holder must prepare a compliance report for each 12 month period following the date of commencement of the action, or as otherwise agreed to in writing by the Minister. The approval holder must: a) publish each compliance report on the website within 60 business days following the relevant 12 month period; b) notify the Department by email that a compliance report has been published on the website within five business days of the date of publication; c) keep all compliance reports publicly available on the website until this approval expires;		This report has been prepared to cover the 12 month period from 21 January 2024 to 20 January 2025. Sixty working days from the commencement date anniversary (21 January) is 17 April 2025. An assessment of compliance with meeting the reporting requirements for this 2024-25 report will be included in the next year's annual compliance report. Publishing of the previous 2023-24 report (which covered the period from 21 January 2023 to 20 January 2024) met all requirements: a. In 2024, 60 working days from the commencement date anniversary (21 January) was 17 April 2024. The 2023-24 Compliance report was published on the website on 17 April 2024 (TRIM: D24#629719). b. The Department was notified by email on 17 April 2024 that the
	d) exclude or redact sensitive ecological data from		

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Condition Number	Condition	Status	Evidence/Comments
	compliance reports published on the website; and e) where any sensitive ecological data has been excluded from the version published, submit the full compliance report to the Department within 5 business days of publication.		 2023-24 Compliance report was published (TRIM: D24#629737). c. All previous reports remain publicly available on the Main Roads website until the expiration date of the project approval. At the time of preparing this report all previous reports are available at https://www.mainroads.wa.gov.au/community-environment/environment/construction-project-reports/. d. No sensitive ecological data has been included in this report. e. No sensitive ecological data has been included in this report.
13	The compliance report prepared under condition 12 must include, but is not limited to:		Avoidance and mitigation measures for clearing known nesting hollows (a)
	a) the avoidance and mitigation measures applied under condition 2, where applicable;		No known nesting hollows were cleared during the reporting period and therefore no additional avoidance measures have been required.
	b) the location of the suitable nesting hollows and known nesting hollows identified under condition 3;		Locations and inspection methods of suitable and known nesting hollows (b, c, d)
	c) the evidence by which it was determined that known nesting hollows were being utilised, including the date each such determination;		No suitable or known nesting hollows were removed during the reporting period and there was no need to determine if hollows were in use or whether chicks had fledged.
	d) the evidence by which it was determined any chick(s) had		Artificial hollow installation details (e, f)
	fledged including the date of each such determination		No artificial nesting hollows were installed during the reporting period.
	and location of the particular hollow(s);		Artificial hollow monitoring and maintenance details (g)
	e) the installation date, location and a photo of each artificial nesting hollow installed under condition 5;		The dates and methodology and results of monitoring and maintenance activities undertaken during the reporting period are provided in
	f) a description of how the design and placement of each artificial nesting hollow was determined;		Attachment A, B, and C.
	g) the dates, methodology, maintenance activities and results of artificial nesting hollow monitoring undertaken; and		Qualifications of suitably qualified persons (h) All artificial hollow installation, monitoring and maintenance has undertaken by Rick Dawson, Director, Australian Black Cockatoo Specialists (ABCS). ABCS has over 28 years' experience in conducting

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Condition Number	Condition	Status	Evidence/Comments
	h) the relevant qualifications and experience of the suitably qualified person(s) involved.		black cockatoo nesting surveys and has installed, monitored, and maintained over 350 artificial hollows. Rick Dawson is a black cockatoo specialist with over 20 years of experience as a DBCA Wildlife Officer and member of the Carnabys Cockatoo and Forest Red-tailed Black Cockatoo recovery teams. Rick managed all DBCA black cockatoo breeding and rehabilitation for 15 years.
14	The approval holder must notify the Department in writing of any: incident; non-compliance with the conditions; or non-compliance with the commitments made in plans. The notification must be given as soon as practicable, and no later than five business days after becoming aware of the incident or non-compliance. The notification must specify: a) the condition which is or may be in breach; and b) a short description of the incident and/or non-compliance.	Not Applicable	No incidents or non-compliances are known to have occurred within this reporting period.
15	The approval holder must provide to the Department the details of any incident or non-compliance with the conditions or commitments made in plans as soon as practicable and no later than 10 business days after becoming aware of the incident or non-compliance, specifying: a) any corrective action or investigation which the approval holder has already taken or intends to take in the immediate future; b) the potential impacts of the incident or non-compliance; and c) the method and timing of any remedial action that will be undertaken by the approval holder.	Not applicable	No incidents or non-compliances are known to have occurred within this reporting period.

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Condition Number	Condition	Status	Evidence/Comments
16	The approval holder must ensure that independent audits of compliance with the conditions are conducted as requested in writing by the Minister.	Not applicable	The Minister has not requested an independent audit to be undertaken.
17	For each independent audit, the approval holder must: a) provide the name and qualifications of the independent auditor and the draft audit criteria to the Department; b) only commence the independent audit once the audit criteria have been approved in writing by the Department; and c) submit an audit report to the Department within the timeframe specified in the approved audit criteria.	Not applicable	The Minister has not requested an independent audit to be undertaken.
18	The approval holder must publish the audit report on the website within 10 business days of receiving the Department's approval of the audit report and keep the audit report published on the website until the end date of this approval.	Not applicable	The Minister has not requested an independent audit to be undertaken.
19	Within 30 days after the completion of the action, the approval holder must notify the Department in writing and provide completion data.	Not applicable	The action has not been completed.

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3 Attachments

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Attachment A Artificial Hollow Monitoring Report – October 2024

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Report: Nesting survey of 70 artificial hollows Julimar State Forest W.A





Australian Black Cockatoo Specialists

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All images source: Rick Dawson

INTRODUCTION

Australian Black Cockatoo Specialists (ABCS) are pleased to submit this report to the Department of Main Roads Western Australia (MRWA) regarding the inspection/nesting survey of 70 Artificial hollows (ANH) in Julimar State Forest on Friday 25th October 2024.

INSPECTION METHOD

The objective of the survey was to establish if there has been Black Cockatoo 'prospecting' and/or nesting activity. The scope of this project included:

- undertaking a close visual inspection of all ANH's via camera pole and or ladder, any activity detected was then photographed. (This required two staff).
- Inspect tree, fixings and hollow condition.
- Details of any use including non-target species was recorded.

All 70 ANH's were inspected in accordance with protocols used by CSIRO and the Department of Biodiversity, Conservation and Attractions. The inside and above each artificial hollow were viewed using a pole camera and photographs taken of any chipping detected, nesting activity or obstructions. A photograph was also taken from the ground using a 500m lens of the sacrificial posting detailing any chipping or signs of prospecting. Details of observations were recorded and are attached at Appendix 2 and 3.

RESULTS

I am very pleased to advise that the following six ANH are in use by Carnaby's in the area:

- J02: Female was flushed from hollow, two Carnaby's eggs in the bottom of the hollow, heavy chipping on post by a female Carnaby's
- J31: Female was flushed from hollow, one Carnaby's egg in the bottom of the hollow, heavy chipping on post by a female Carnaby's
- J32: Female was flushed from hollow one x seven-day old nestling and one dead small Carnaby's nestling in the bottom of the hollow, very little chipping on post by a female Carnaby's.



- J41: Female was flushed from hollow, two Carnaby's eggs in the bottom of the hollow, chipping on post by a female Carnaby's.
- J50: Female was flushed from hollow, one Carnaby's egg in the bottom of the hollow, chipping on post by a female Carnaby's.

 J58: Female was flushed from hollow, one Carnaby's egg in the bottom of the hollow, chipping on post by a female Carnaby's.



The 7-day old nestling in J32 will be approximately 70 days old on the 27 December 2024 and will most like fledge in the first week of January 2025.

A dead Boobook owl was observed in J03 (see Annex 4). There were no signs of a struggle to leave the hollow. Barn Owl and Nankeen Kestrel have been recorded successfully breeding in ANH.

There was chipping by black cockatoos detected in 48 other hollows, which confirms that a large number of the hollows in the area have been prospected by females. A score of 0-10 was used to rate the amount of chipping with '0' being none detected. We have trialled a number of Wando posts in some of the hollows and they seem to be holding up better than Tuart or Jarrah.

Carnaby's' were heard calling/observed in Julimar State forest in the following locations; J2-J4, J13-J15. There was evidence of them feeding on marri fruit near J49.

REPAIRS

The following repairs are recommended prior to the start of next year's breeding; this will be update in the second survey:

- At the time of this survey no hollows require woodchips.
- The sacrificial post in all six hollows being used by Carnaby's may need to be replaced post breeding and 5lts of woodchips added to these hollow to freshen them up.

- All 70 trees are in good condition and there is no need to relocate any hollows at this stage.
- All fixings and the hollows are in very good condition.

RECOMMENDATIONS

- That the nestlings in J02,31,32,41,50, and 58 be processed as detailed above during the December survey. It is likely that there will be more nesting attempts and therefore more nestlings to process
- That next nesting survey should be conducted <u>prior to the 30th of December 2024</u>, to enable
 data to be taken from all nestlings to provide valuable information on the health of the birds
 using the area.

CONCULSIONS

These results are very encouraging and consistent with other sites that have had ANH's installed in known breeding sites. As there have now been six nesting attempts and prospecting in another 48 hollows this year, it is very likely that nesting attempts will continue to grow with each year. I want to thank MRWA and DBCA for their support in allowing me to install ANH in Julimar State Forest

CONTACT INFORMATION

Contact Name: Rick Dawson

Position: Principal Consultant

Phone: 0448 170 670

Email: Rickd@abcs.au

Rick Dawson Director

Australian Black Cockatoo Specialist

5 November 2024

Appendix 1: DETAILS OF ANH OBSERVATIONS

<u>Appendix 2: PHOTOGRAPHS AND OBSERVATION DETAILS OF ANH J01 TO J30 – Attached separately.</u>

Appendix3: PHOTOGRAPHS AND OBSERVATION DETAILS OF ANH J31 TO J70- Attached separately.

APPENDIX 1 - DETAILS OF ANH OBSERVATIONS

Hollow No	Comments	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J01	Chewing on post no signs of Breeding	5	5lt	Good	Good	NIL
J02	Female flushed, 2 x Carnaby's Eggs	5	5lt	Good	Good	Change post and check substrate post nesting
J03	No signs of nesting or inspection by Black Cockatoos, One Dead Boobook	0	Nil	Good	Good	Remove Boobook Owl
J04	No signs of nesting or inspection by Black Cockatoos.	0	Nil	Good	Good	NIL
J05	No signs of nesting or inspection by Black Cockatoos.	0	Nil	Good	Good	Nil
J06	No signs of nesting or inspection by Black Cockatoos.	0	Nil	Good	Good	Nil
J07	Chewing on post no signs of Breeding	1	Nil	Good	Good	Nil
J08	Chewing on post no signs of Breeding	1	Nil	Good	Good	NIL
J09	Chewing on post no signs of Breeding	2	Nil	Good	Good	NIL
J10	Chewing on post no signs of Breeding	1	Nil	Good	Good	NIL
J11	No signs of nesting or inspection by Black Cockatoos.	0	Nil	Good	Good	Nil
J12	No signs of nesting or inspection by Black Cockatoos.	0	Nil	Good	Good	Nil

Hollow No	Comments	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J13	Chewing on post no signs of Breeding. Cobwebs	2	Nil	Good	Good	NIL
J14	No signs of nesting or inspection by Black Cockatoos.	1	Nil	Good	Good	NIL
J15	Chewing on post no signs of Breeding	2	Nil	Good	Good	NIL
J16	Chewing on post no signs of Breeding	1	Nil	Good	Good	NIL
J17	Chewing on post no signs of Breeding	2	Nil	Good	Good	Nil
J18	Chewing on post no signs of Breeding	1	Nil	Good	Good	NIL
J19	Chewing on post no signs of Breeding	1	Nil	Good	Good	NIL
J20	Chewing on post no signs of Breeding	1	Nil	Good	Good	Nil
J21	Chewing on post no signs of Breeding	1	Nil	Good	Good	Nil
J22	Chewing on post no signs of Breeding	2	Nil	Good	Good	NIL
J23	Chewing on post no signs of Breeding	1	Nil	Good	Good	NIL
J24	Chewing on post no signs of Breeding	1	Nil	Good	Good	NIL

Hollow No	Comments	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J25	Chewing on post no signs of Breeding	1	Nil	Good	Good	NIL
J26	Chewing on post no signs of Breeding	1	Nil	Good	Good	NIL
J27	Chewing on post no signs of Breeding	1	Nil	Good	Good	NIL
J28	Chewing on post no signs of Breeding	3	Nil	Good	Good	NIL
J29	Chewing on post no signs of Breeding	2	Nil	Good	Good	Nil
J30	Chewing on post no signs of Breeding	2	Nil	Good	Good	Nil
J31	Female flushed, 1 x Carnaby's Eggs. Fallen branch blocking hollow	5	5lt	Good	Good	CHECK post and substrate post nesting
J32	Female flushed, 1x 7 Day old nestling, and 1 x small dead Carnaby's nestling	2	5lt	Good	Good	CHECK post and substrate post nesting
J33	No signs of nesting or inspection by Black Cockatoos.	0	Nil	Good	Good	Nil
J34	Minor chewing on top of post no signs of Breeding	1	Nil	Good	Good	Nil
J35	Minor chewing on post no signs of Breeding	1	Nil	Good	Good	Nil
J36	No signs of nesting or inspection by Black Cockatoos.	0	Nil	Good	Good	Nil

Hollow No	Comments	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J37	Chewing on post no signs of Breeding	1	Nil	Good	Good	NIL
J38	Chewing on post no signs of Breeding	1	Nil	Good	Good	NIL
J39	Chewing on post no signs of Breeding	1	Nil	Good	Good	NIL
J40	No signs of nesting or inspection by Black Cockatoos.	0	Nil	Good	Good	Nil
J41	Female flushed, 2 x Carnaby's Eggs	3	5lt	Good	Good	CHECK post and substrate post nesting
J42	Chewing on post no signs of Breeding	1	Nil	Good	Good	NIL
J43	Chewing on post no signs of Breeding	1	Nil	Good	Good	NIL
J44	No signs of nesting or inspection by Black Cockatoos.	0	Nil	Good	Good	Nil
J45	Chewing on post no signs of Breeding	1	Nil	Good	Good	NIL
J46	Minor chewing on post no signs of Breeding	1	Nil	Good	Good	NIL
J47	No signs of nesting or inspection by Black Cockatoos.	0	Nil	Good	Good	Nil
J48	No signs of nesting or inspection by Black Cockatoos.	0	Nil	Good	Good	Nil

Hollow No	Comments	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J49	Chewing on post no signs of Breeding	2	Nil	Good	Good	Nil
J50	Female flushed, 1 x Carnaby's Eggs	3	5lt	Good	Good	CHECK post and check substrate post nesting
J51	Chewing on post no signs of Breeding	2	Nil	Good	Good	Nil
J52	Chewing on post no signs of Breeding	1	Nil	Good	Good	Nil
J53	Chewing on post no signs of Breeding	1	Nil	Good	Good	Nil
J54	Chewing on post no signs of Breeding	1	Nil	Good	Good	Nil
J55	Chewing on post no signs of Breeding	1	Nil	Good	Good	NIL
J56	Chewing on post no signs of Breeding	1	Nil	Good	Good	NIL
J57	Chewing on post no signs of Breeding	1	Nil	Good	Good	Nil
J58	Female flushed, 1 x Carnaby's Eggs	3	5lt	Good	Good	CHECK post and substrate post nesting
J59	Chewing on post no signs of Breeding	1	Nil	Good	Good	NIL
J60	Chewing on post no signs of Breeding	2	Nil	Good	Good	NIL

Hollow No	Comments	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J61	Chewing on post no signs of Breeding	3	Nil	Good	Good	NIL
J62	No signs of nesting or inspection by Black Cockatoos	1	Nil	Good	Good	NIL
J63	No signs of nesting or inspection by Black Cockatoos	0	Nil	Good	Good	NIL
J64	No signs of nesting or inspection by Black Cockatoos.	0	Nil	Good	Good	Nil
J65	Chewing on post no signs of Breeding	1	Nil	Good	Good	Nil
J66	Chewing on post no signs of Breeding	2	Nil	Good	Good	Nil
J67	No signs of nesting or inspection by Black Cockatoos	0	Nil	Good	Good	NIL
J68	Chewing on post no signs of Breeding	1	Nil	Good	Good	Nil
J69	Chewing on post no signs of Breeding	1	Nil	Good	Good	Nil
J70	Chewing on post no signs of Breeding	2	Nil	Good	Good	Nil

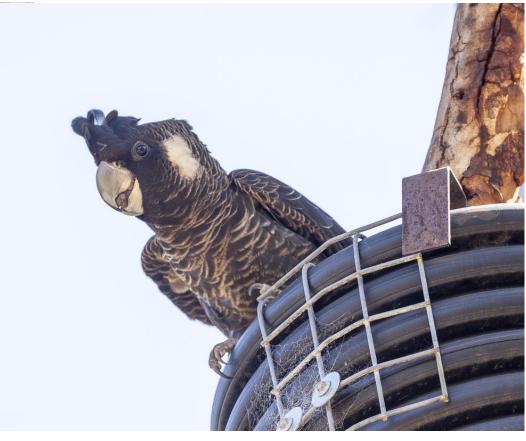
APPENDIX 2 PHOTOGRAPHS AND OBSERVATION DETAILS OF ANH J01 TO J30 – Attached separately.

APPENDIX 3 PHOTOGRAPHS AND OBSERVATION DETAILS OF ANH J31 TO J70- Attached separately.

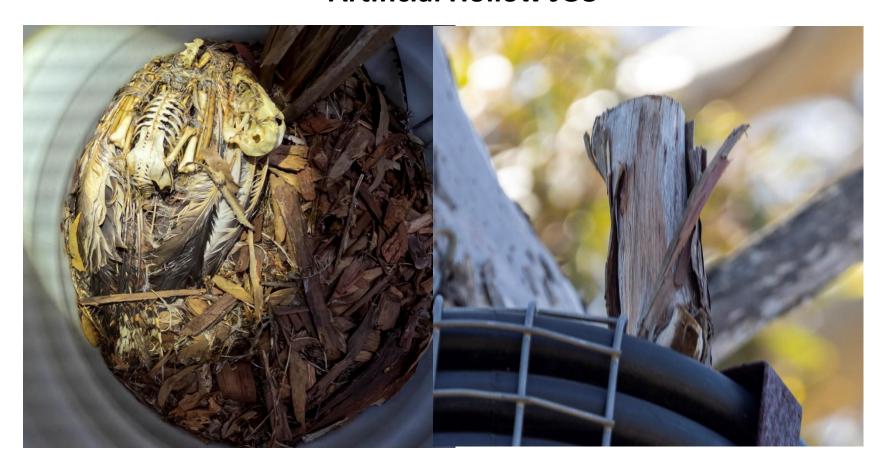


Hollow I	No Comments	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J01	Chewing on post no signs of Breeding	3	0	Good	Good	NIL





Hollow No	Comments	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J02	Female flushed, 2 x Carnaby's Eggs	5	5lt	Good	Good	Change post and check substrate post nesting



Hollow No	Comments	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J03	No signs of nesting or inspection by Black Cockatoos <mark>, One Dead</mark> Boobook	0	Nil	Good	Good	Remove Boobook Owl



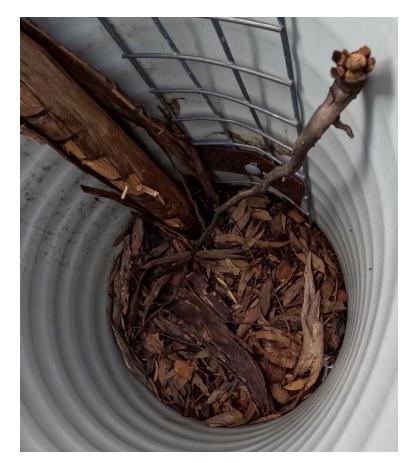
Н	ollow No	Comments	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
	J04	No signs of nesting or inspection by Black Cockatoos.	0	Nil	Good	Good	NIL



Hollow No	Comments	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J05	No signs of nesting or inspection by Black Cockatoos.	0	Nil	Good	Good	Nil

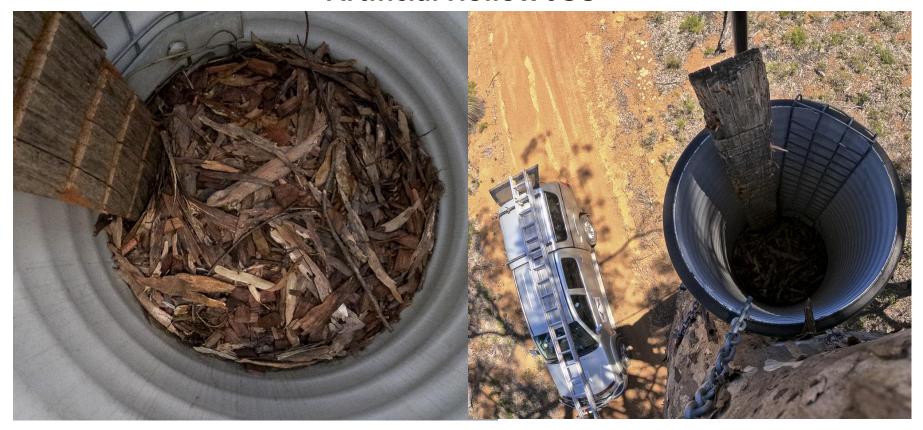


Hollow No	Comments	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J06	No signs of nesting or inspection by Black Cockatoos.	0	Nil	Good	Good	Nil

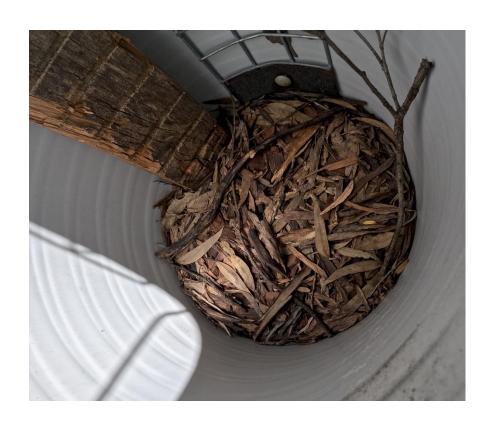


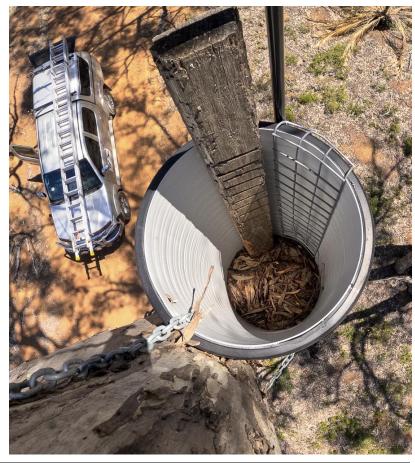


Hollow No	Comments	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J07	Chewing on post no signs of Breeding	1	Nil	Good	Good	Nil



Hollow No	Comments	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J08	Chewing on post no signs of Breeding	3	Nil	Good	Good	NIL

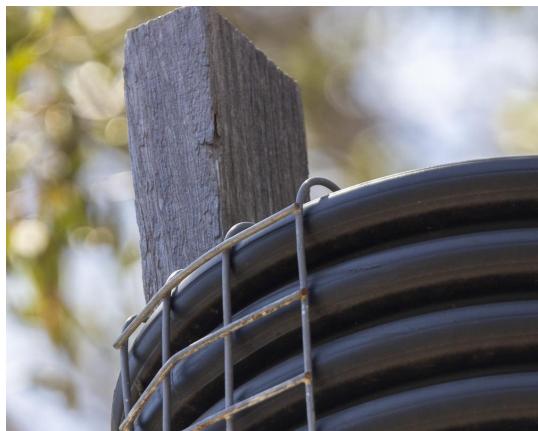


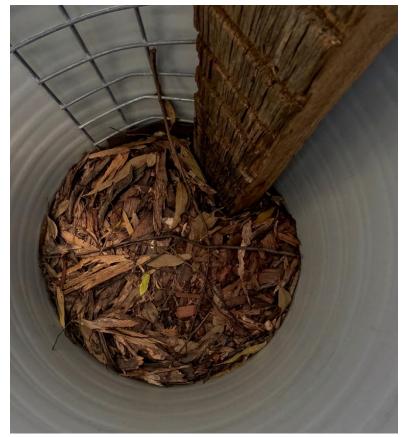


Hollow No	Comments	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J09	Chewing on post no signs of Breeding	2	Nil	Good	Good	NIL



Hollow No	Comments	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J10	Chewing on post no signs of Breeding	1	Nil	Good	Good	NIL





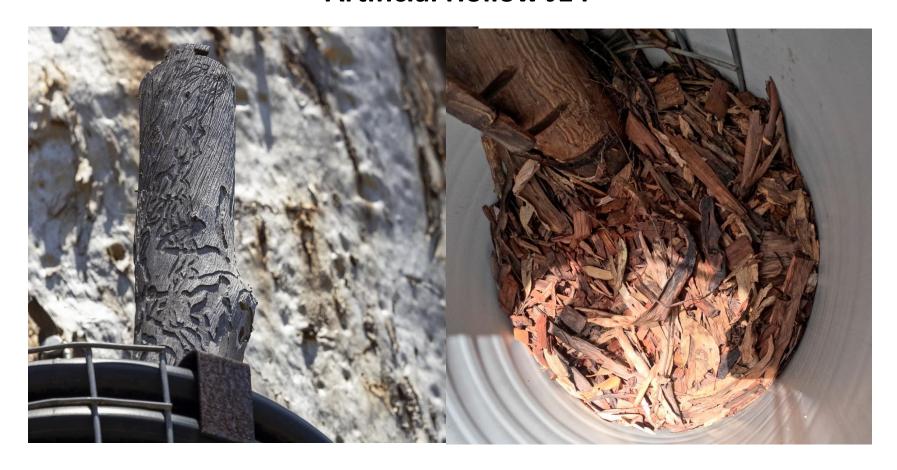
Hollow No	Comments	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J11	No signs of nesting or inspection by Black Cockatoos.	0	Nil	Good	Good	Nil



Hollow No	Comments	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J12	No signs of nesting or inspection by Black Cockatoos.	0	Nil	Good	Good	Nil



Hollow No	Comments	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J13	Chewing on post no signs of Breeding. Cobwebs	2	Nil	Good	Good	NIL



Hollow No	Comments	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J14	No signs of nesting or inspection by Black Cockatoos.	1	Nil	Good	Good	NIL



Hollow No	Comments	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J15	Chewing on post no signs of Breeding	1	Nil	Good	Good	NIL



Hollow No	Comments	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J16	Chewing on post no signs of Breeding	1	Nil	Good	Good	NIL



Hollow No	Comments	Chipping score 0-10	Wood Chips	Treecondition	Fixings and Hollow condition	Recommended repairs
J17	Chewing on post no signs of Breeding	2	Nil	Good	Good	Nil





Hollow No	Comments	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J18	Chewing on post no signs of Breeding	1	Nil	Good	Good	NIL



Hollow No	Comments	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J19	Chewing on post no signs of Breeding	1	Nil	Good	Good	NIL





Hollow No	Comments	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J20	Chewing on post no signs of Breeding	1	Nil	Good	Good	Nil



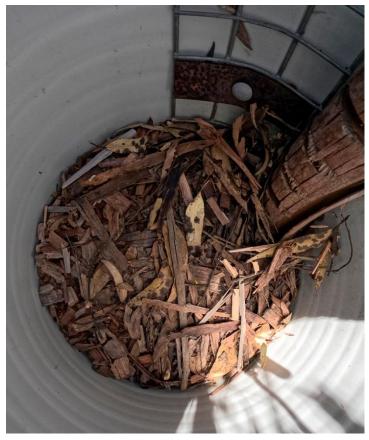
Hollo	w No	Comments	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J2	1	Chewing on post no signs of Breeding	1	Nil	Good	Good	Nil



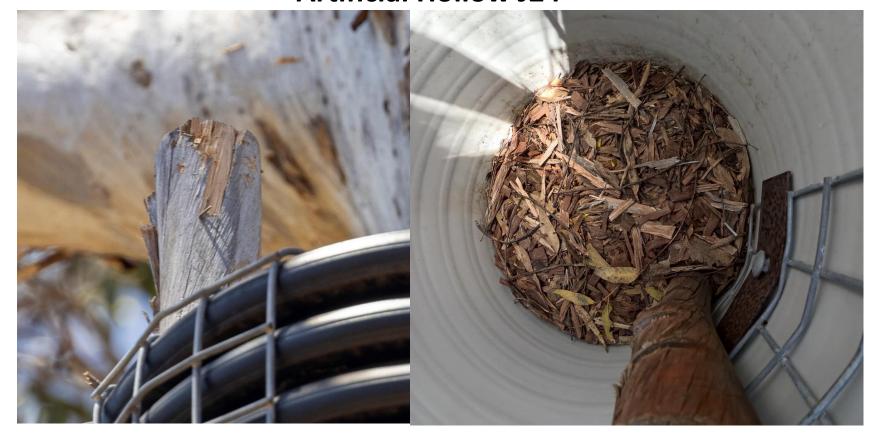


Hollow No	Comments	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J22	Chewing on post no signs of Breeding	2	Nil	Good	Good	NIL

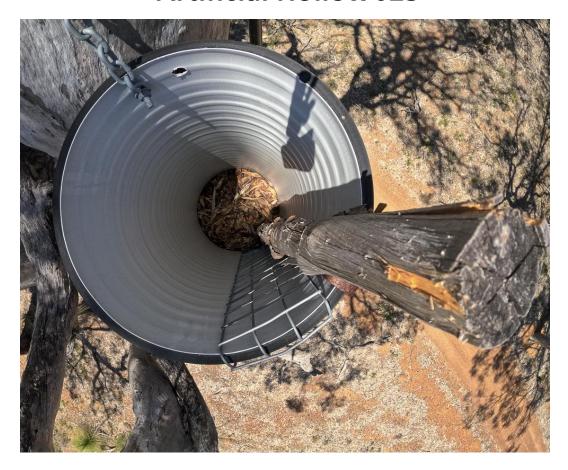




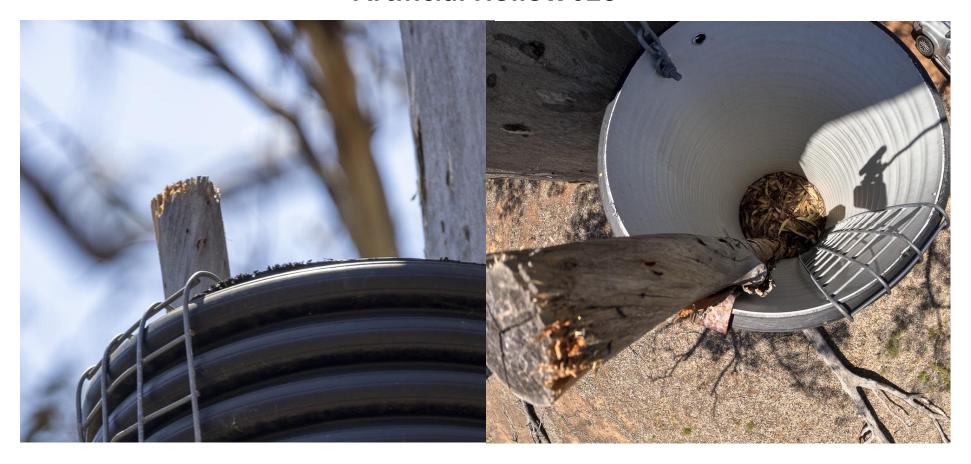
Hollow No	Comments	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J23	Chewing on post no signs of Breeding	1	Nil	Good	Good	NIL



Hollow No	Comments	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J24	Chewing on post no signs of Breeding	1	Nil	Good	Good	NIL



Hollow No	Comments	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J25	Chewing on post no signs of Breeding	1	Nil	Good	Good	NIL



Hollow No	Comments	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J26	Chewing on post no signs of Breeding	1	Nil	Good	Good	NIL

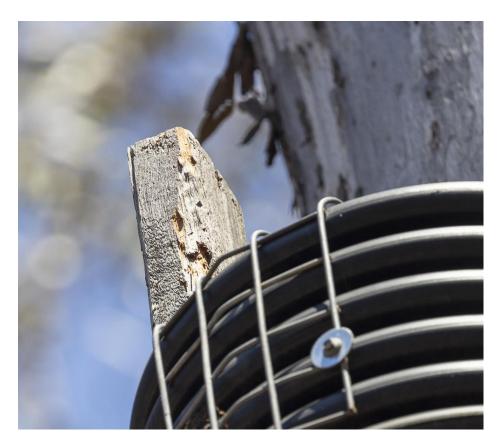


Hollow No	Comments	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J27	Chewing on post no signs of Breeding	1	Nil	Good	Good	NIL



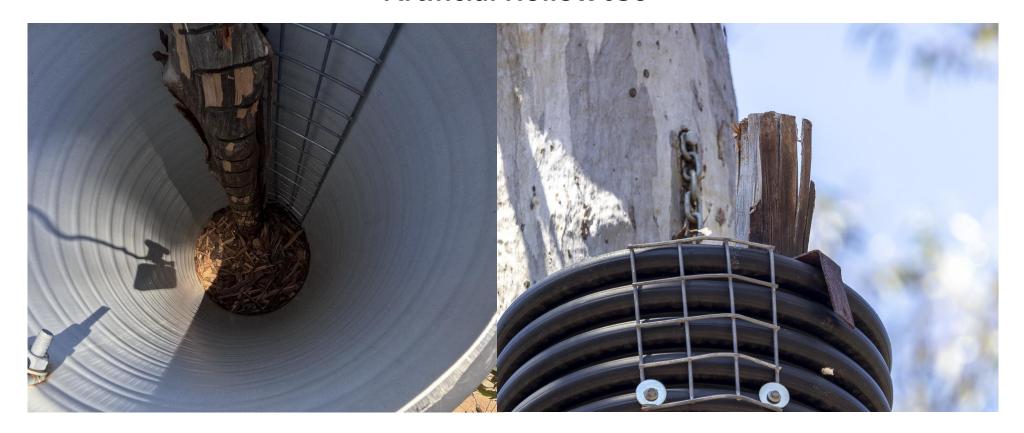


Hollow No	Comments	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J28	Chewing on post no signs of Breeding	1	Nil	Good	Good	NIL





Hollow No	Comments	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J29	Chewing on post no signs of Breeding	2	Nil	Good	Good	Nil



Hollow No	Comments	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J30	Chewing on post no signs of Breeding	2	Nil	Good	Good	Nil



Hollow No	Comments	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J31	Female flushed, 1 x Carnaby's Eggs. Fallen branch blocking hollow	5	5lt	Good	Good	Change post and check substrate post nesting. Remove branch

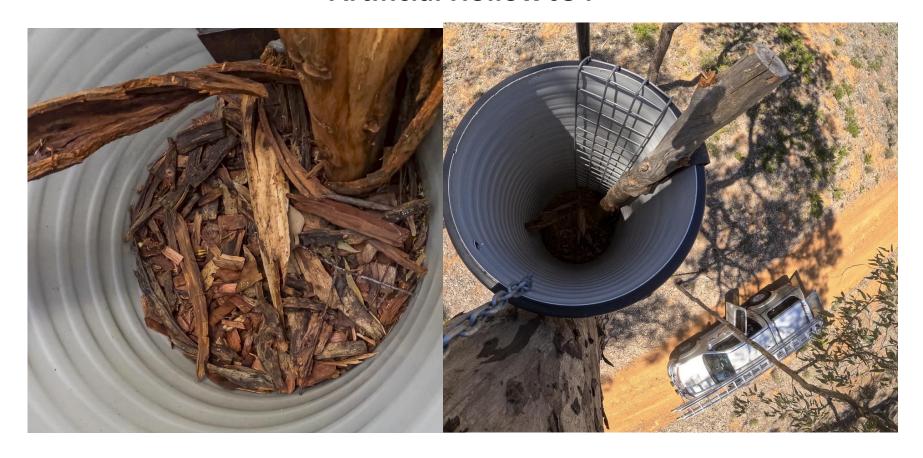


Hollow No	Comments	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J32	Female flushed, 1x 7 Day old nestling, and 1 x small dead Carnaby's nestling	2	5lt	Good	Good	CHECK post and substrate post nesting



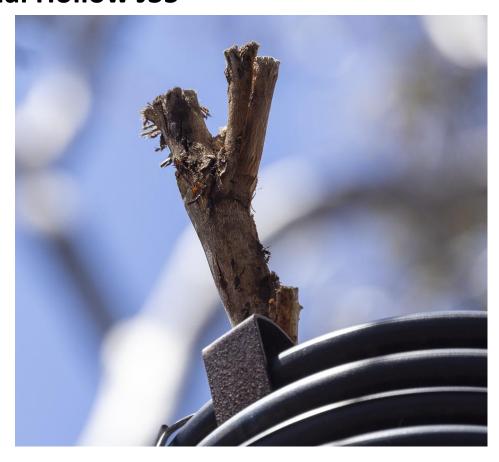


Hollow No	Comments	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J33	No signs of nesting or inspection by Black Cockatoos.	0	Nil	Good	Good	Nil



Hollow No	Comments	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J34	Minor chewing on top of post no signs of Breeding	1	Nil	Good	Good	Nil





Hollow No	Comments	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J35	Minor chewing on post no signs of Breeding	1	Nil	Good	Good	Nil

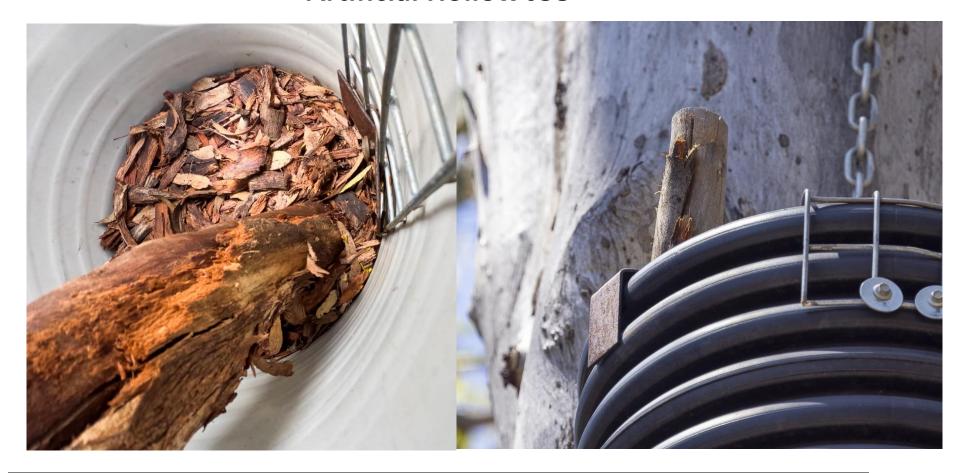




Hollow No	Comments	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J36	No signs of nesting or inspection by Black Cockatoos.	0	Nil	Good	Good	Nil



Hollow No	Comments	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J37	Chewing on post no signs of Breeding. SIDE WALL OF HOLLOW CHEWED	1	Nil	Good	Good	NIL



Hollow No	Comments	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J38	Chewing on post no signs of Breeding	1	Nil	Good	Good	NIL



Hollow No	Comments	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J39	Chewing on post no signs of Breeding	1	Nil	Good	Good	NIL





Hollow No	Comments	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J40	No signs of nesting or inspection by Black Cockatoos.	0	Nil	Good	Good	Nil





Hollow No	Comments	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J41	Female flushed, 2 x Carnaby's Eggs	3	5lt	Good	Good	CHECK post and substrate post nesting



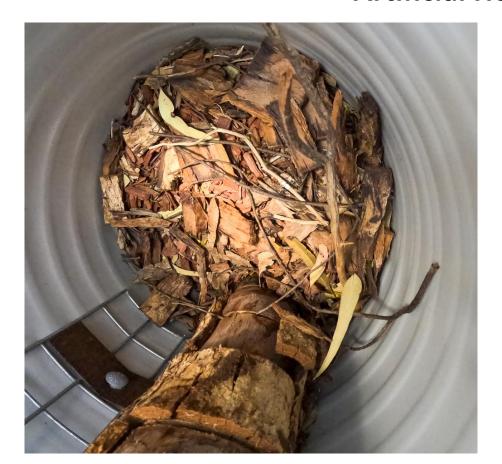


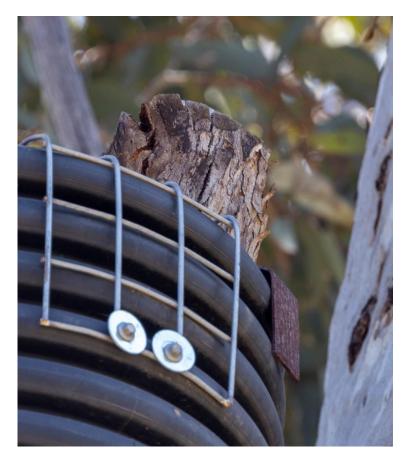
Hollow No	Comments	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J42	Chewing on post no signs of Breeding	1	Nil	Good	Good	NIL



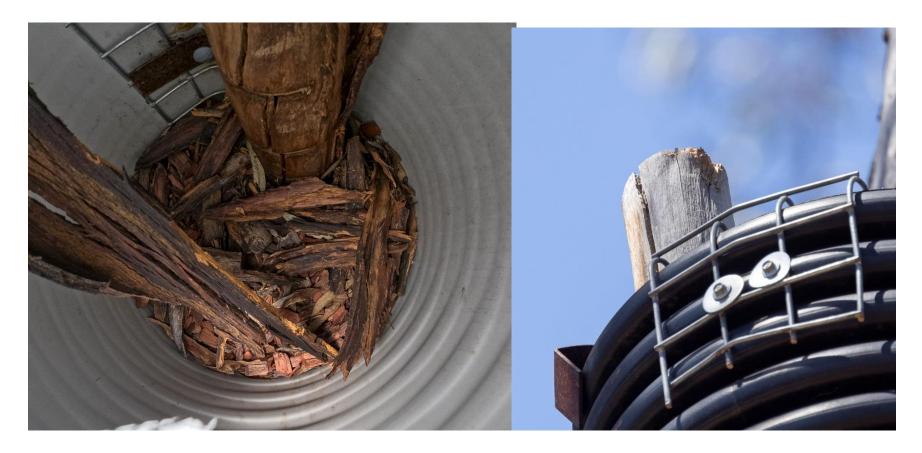


Hollow No	Comments	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J43	Chewing on post no signs of Breeding	1	Nil	Good	Good	NIL

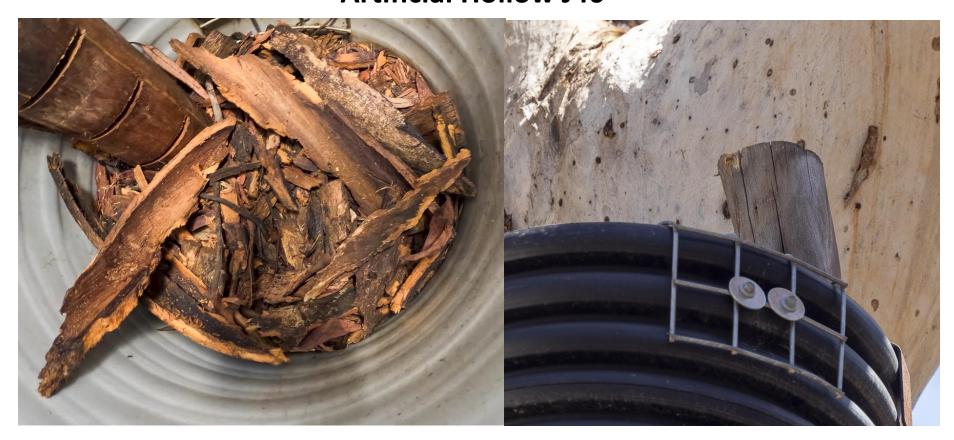




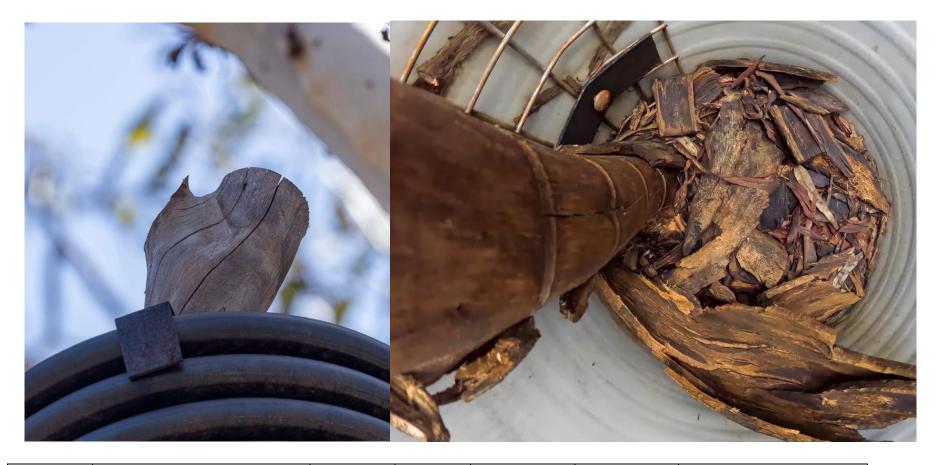
Hollow No	Comments	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J44	No signs of nesting or inspection by Black Cockatoos.	0	Nil	Good	Good	Nil



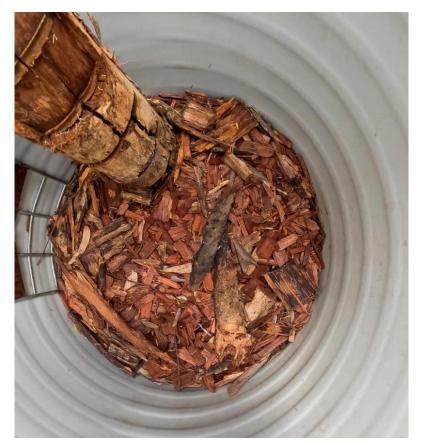
Hollow No	Comments	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J45	Chewing on post no signs of Breeding	1	Nil	Good	Good	NIL



Hollow No	Comments	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J46	Minor chewing on post no signs of Breeding	1	Nil	Good	Good	NIL



Hollow No	Comments	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J47	No signs of nesting or inspection by Black Cockatoos.	0	Nil	Good	Good	Nil





Hollow No	Comments	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J48	No signs of nesting or inspection by Black Cockatoos.	0	Nil	Good	Good	Nil



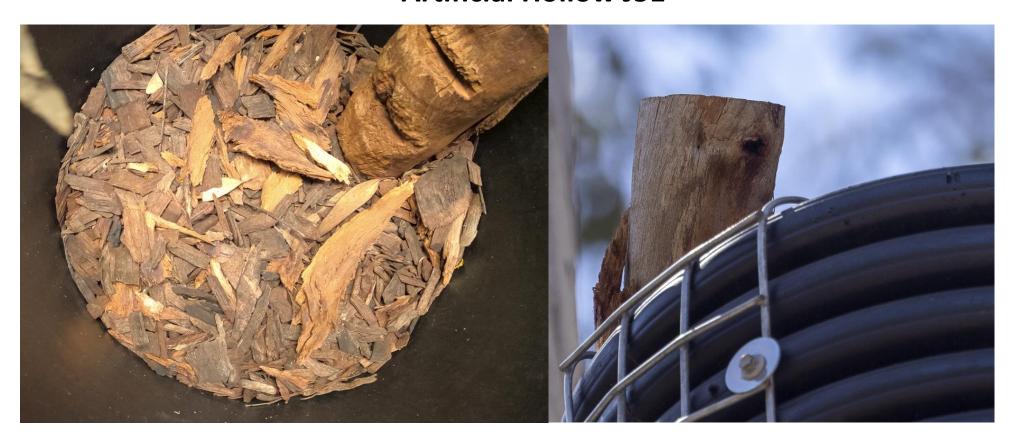
Hollow No	Comments	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J49	Chewing on post no signs of Breeding	2	Nil	Good	Good	Nil







Hollow No	Comments	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J50	Female flushed, 1 x Carnaby's Eggs	3	5lt	Good	Good	CHECK post and check substrate post nesting



Hollow No	Comments	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J51	Chewing on post no signs of Breeding	2	Nil	Good	Good	Nil



Hollow No	Comments	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J52	Chewing on post no signs of Breeding	1	Nil	Good	Good	Nil



Hollow No	Comments	Chipping	Wood	Tree	Fixings and	Recommended repairs
		score 0-10	Chips	condition	Hollow condition	
J53	Chewing on post no signs of Breeding	1	Nil	Good	Good	Nil



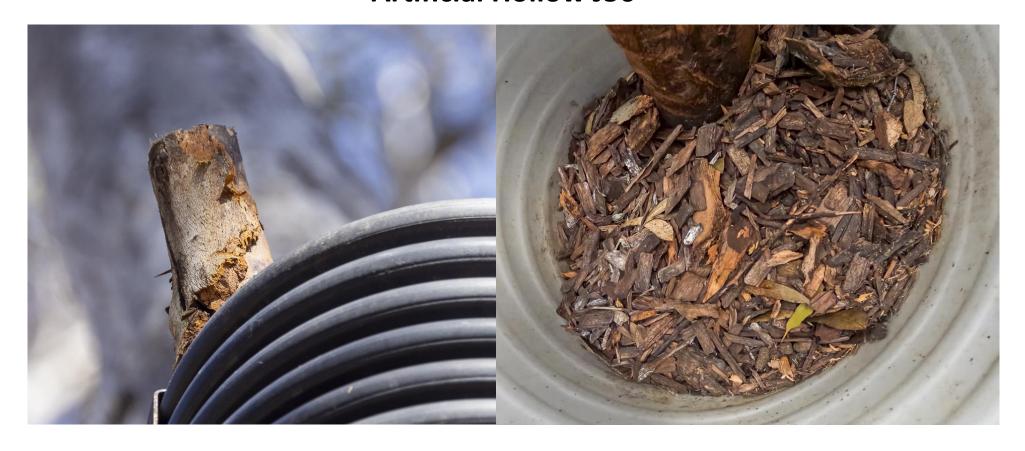


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J54	Chewing on post no signs of Breeding	1	Nil	Good	Good	Nil

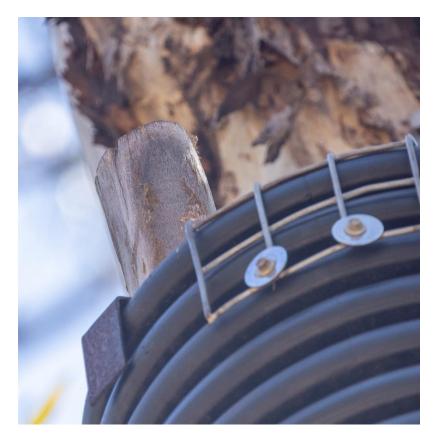




Hollow No	Comments	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J55	Chewing on post no signs of Breeding	1	Nil	Good	Good	NIL



Hollow No	Comments	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J56	Chewing on post no signs of Breeding	1	Nil	Good	Good	NIL





Hollow No	Comments	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J57	Chewing on post no signs of Breeding	1	Nil	Good	Good	Nil







Hollow No	Comments	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J58	Female flushed, 1 x Carnaby's Eggs	3	5lt	Good	Good	CHECK post and substrate post nesting



Hollow No	Comments	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J 5 9	Chewing on post no signs of Breeding	1	Nil	Good	Good	NIL



Hollow No	Comments	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J60	Chewing on post no signs of Breeding	2	Nil	Good	Good	NIL



Hollow No	Comments	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J61	Chewing on post no signs of Breeding	3	Nil	Good	Good	NIL

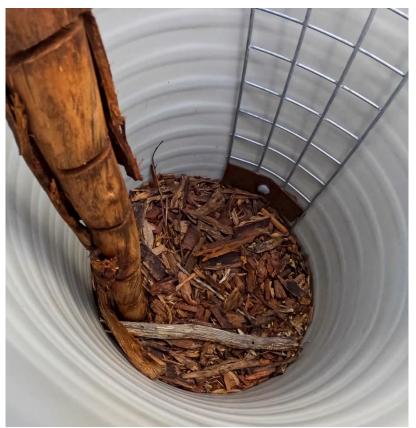


Hollow No	Comments	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J62	No signs of nesting or inspection by Black Cockatoos	1	Nil	Good	Good	NIL





Hollow No	Comments	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J63	No signs of nesting or inspection by Black Cockatoos	0	Nil	Good	Good	NIL





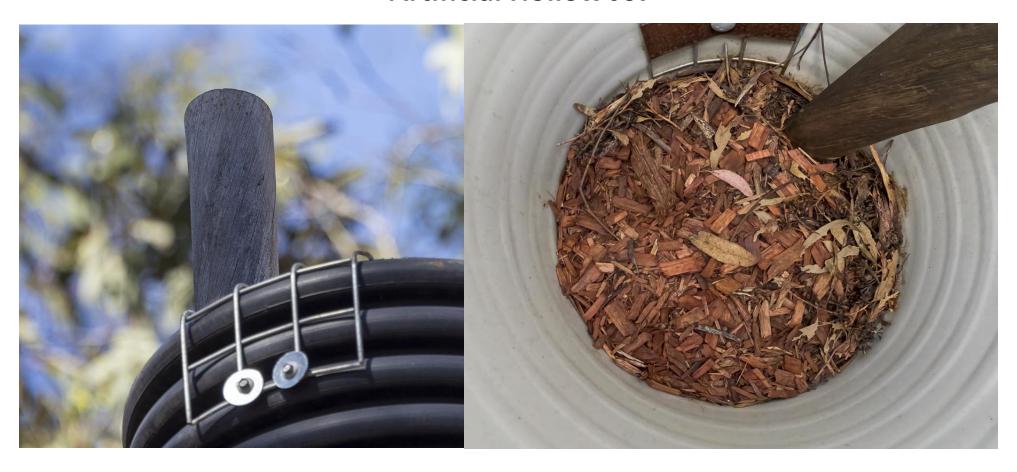
Hollow No	Comments	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J64	No signs of nesting or inspection by Black Cockatoos.	0	Nil	Good	Good	Nil



Hollow No	Comments	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J65	Chewing on post no signs of Breeding	1	Nil	Good	Good	Nil



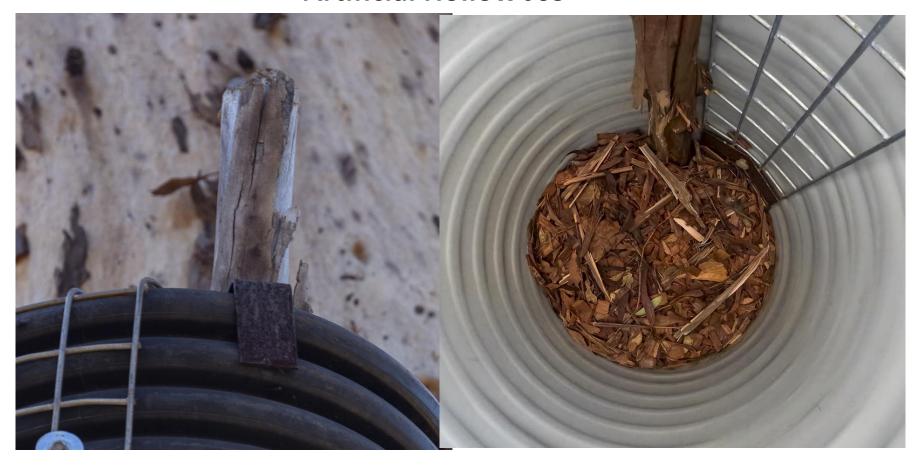
Hollow No	Comments	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J66	Chewing on post no signs of Breeding	2	Nil	Good	Good	Nil



Hollow No	Comments	Chipping	Wood	Tree	Fixings and	Recommended repairs
		score 0-10	Chips	condition	Hollow condition	
J67	No signs of nesting or inspection by Black Cockatoos	0	Nil	Good	Good	NIL



Hollow No	Comments	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J68	Chewing on post no signs of Breeding	1	Nil	Good	Good	Nil



Hollow No	Comments	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs





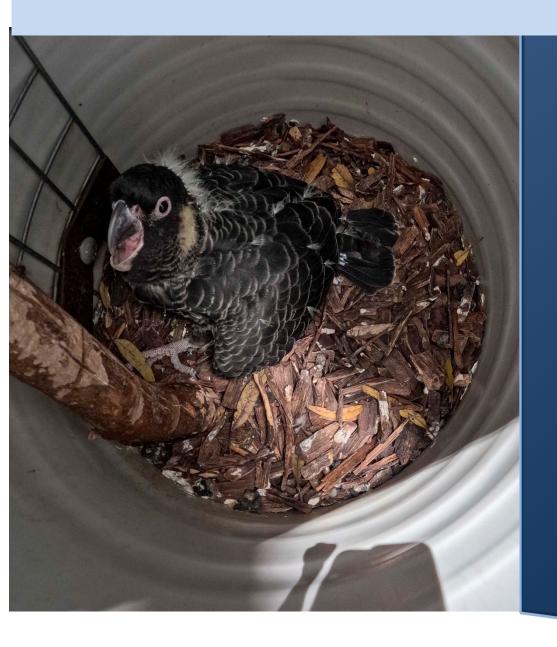
Hollow No	Comments	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J70	Chewing on post no signs of Breeding	2	Nil	Good	Good	Nil

Attachment B Artificial Hollow Monitoring Report – December 2024

Document No: D25#373032 Page 16 of 19



Report: Nesting survey of 70 artificial hollows Julimar State Forest W.A



Main Roads Western Australia

29 December 2024

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•	INSPECTION METHOD	1
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•	RECOMMENDED REPAIRS	.2
•	RECOMMENDATIONS/CONCLUSIONS	.2
•	CONTACT INFORMATION	.2
•	APPENDIX 1, 2 AND 3 ATTACHED SEPERATELY	.4

All images source: Rick Dawson

INTRODUCTION

Australian Black Cockatoo Specialists (ABCS) are pleased to submit this report to the Department of Main Roads Western Australia (MRWA) regarding the inspection/nesting survey of 70 Artificial hollows (ANH) in Julimar State Forest on Saturday 21 December 2024.

INSPECTION METHOD

The objective of the survey was to establish if there has been Black Cockatoo 'prospecting' and/or nesting activity. The scope of this project included:

- undertaking a close visual inspection of all ANH's via camera pole and or ladder, any activity detected was then photographed. (This required two staff).
- Inspect tree, fixings and hollow condition.
- Details of any use including non-target species was recorded.

All 70 ANH's were inspected in accordance with protocols used by CSIRO and the Department of Biodiversity, Conservation and Attractions. The inside and above each artificial hollow were viewed using a pole camera and photographs taken of any chipping detected, nesting activity or obstructions. A photograph was also taken from the ground using a 500m lens of the sacrificial posting detailing any chipping or signs of prospecting. Details of observations were recorded and are attached at Appendix 2 and 3.

RESULTS

I am very pleased to advise that the following six ANH have been used by Carnaby's in the area:

 J02: Female Carnaby's nestling 45 days old, heavy chipping on post by a female Carnaby's.

• **J31:** No sign of CC egg - Failure, heavy chipping on post by a female Carnaby's.

 J32: Female Carnaby's nestling 66- days old nestling, very little chipping on post by a female Carnaby's.



 J41: Female Carnaby's nestling 47-days old nestling, chipping on post by a female Carnaby's.

 J50: Female Carnaby's nestling 28- days old nestling, chipping on post by a female Carnaby's.

 J58 No sign of CC egg, a lot of small breast feathers in hollow - Failure, chipping on post by a female Carnaby's.



Details of nestlings processed.

Date	Nest No	Sex	Band No	FLW	Weight	Age days	DNA
21/12/24	J02	М	32002280	193	520	45	3F
21/12/24	J50	F	32002281	85	430	28	3F
21/12/24	J41	F	32002282	200	580	47	3F
21/12/24	J32	F	32002283	305	530	66	3F

The 66-day old nestling in J32 will most like fledge in the first week of January 2025. The youngest nestling in J50 will most like fledge in the second week of February 2025.

A dead Boobook owl was observed in J03 (see Annex 4). There were no signs of a struggle to leave the hollow. Barn Owl and Nankeen Kestrel have been recorded successfully breeding in ANH. The Dead owl will decompose over time.

There was chipping by black cockatoos detected in 54 other hollows, which confirms that a large number of the hollows in the area have been prospected by females. A score of 0-10 was used to rate the amount of chipping with '0' being none detected. We have trialled a number of Wando posts in some of the hollows and they seem to be holding up better than Tuart or Jarrah.

REPAIRS

The following repairs are recommended prior to the start of next year's breeding;

- Due to the regular maintenance of the ANH no hollows require woodchips this year.
- The sacrificial post in all six hollows being used by Carnaby's are still in good condition and do not need to be changed.
- All 70 trees are in good condition and there is no need to relocate any hollows at this stage.
- All fixings and the hollows are in very good condition.

RECOMMENDATIONS

That next year's nesting survey should be conducted in October and December 2025, to
enable data to be taken from all nestlings to provide valuable information on the health of the
birds using the area.

CONCULSIONS

These results are very encouraging and consistent with other sites that have had ANH's installed in known breeding sites. There were six nesting attempts that has produced 4 nestlings that will fledge in the new year, and prospecting in another 54 hollows this year. It has been a challenging year for black cockatoos, which makes these results particularly encouraging. I want to thank MRWA and DBCA for their support in allowing me to install ANH in Julimar State Forest

CONTACT INFORMATION

Contact Name: Rick Dawson

Position: Principal Consultant

 Phone:
 0448 170 670

 Email:
 Rickd@abcs.au

Rick Dawson Director

Australian Black Cockatoo Specialist

29 December 2024

Appendix 1: DETAILS OF ANH OBSERVATIONS

Appendix 2: PHOTOGRAPHS AND OBSERVATION DETAILS OF ANH J01 TO J30 – Attached separately.

Appendix3: PHOTOGRAPHS AND OBSERVATION DETAILS OF ANH J31 TO J70- Attached separately.

APPENDIX 1 - DETAILS OF ANH OBSERVATIONS

Hollow No	December Results	October Results	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J01	Chewing on post no signs of Breeding	Chewing on post no signs of Breeding	2	5lt	Good	Good	NIL
J02	Female Carnaby's nestling 45 days old	Female flushed, 2 x Carnaby's Eggs	3	5lt	Good	Good	Nil
J03	No signs of nesting or inspection by Black Cockatoos, One Dead Boobook	No signs of nesting or inspection by Black Cockatoos, One Dead Boobook	0	Nil	Good	Good	Boobook Owl, will decay over time
J04	No signs of nesting or inspection by Black Cockatoos.	No signs of nesting or inspection by Black Cockatoos.	0	Nil	Good	Good	NIL
J05	No signs of nesting or inspection by Black Cockatoos.	No signs of nesting or inspection by Black Cockatoos.	0	Nil	Good	Good	Nil
J06	No signs of nesting or inspection by Black Cockatoos.	No signs of nesting or inspection by Black Cockatoos.	0	Nil	Good	Good	Nil
J07	Chewing on post no signs of Breeding	Chewing on post no signs of Breeding	2	Nil	Good	Good	Nil
J08	Chewing on post no signs of Breeding	Chewing on post no signs of Breeding	1	Nil	Good	Good	NIL
J09	Chewing on post no signs of Breeding	Chewing on post no signs of Breeding	2	Nil	Good	Good	NIL
J10	Chewing on post no signs of Breeding	Chewing on post no signs of Breeding	1	Nil	Good	Good	NIL
J11	No signs of nesting or inspection by Black Cockatoos.	No signs of nesting or inspection by Black Cockatoos.	0	Nil	Good	Good	Nil
J12	No signs of nesting or inspection by Black Cockatoos.	No signs of nesting or inspection by Black Cockatoos.	0	Nil	Good	Good	Nil

Hollow No	December Results	October Results	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J13	Chewing on post no signs of Breeding. Cobwebs	Chewing on post no signs of Breeding. Cobwebs	2	Nil	Good	Good	NIL
J14	Chewing on post no signs of Breeding. Cobwebs	Chewing on post no signs of Breeding. Cobwebs	1	Nil	Good	Good	NIL
J15	Chewing on post no signs of Breeding	Chewing on post no signs of Breeding	1	Nil	Good	Good	NIL
J16	Chewing on post no signs of Breeding	Chewing on post no signs of Breeding	1	Nil	Good	Good	NIL
J17	Chewing on post no signs of Breeding	Chewing on post no signs of Breeding	2	Nil	Good	Good	Nil
J18	Chewing on post no signs of Breeding	Chewing on post no signs of Breeding	1	Nil	Good	Good	NIL
J19	Chewing on post no signs of Breeding	Chewing on post no signs of Breeding	1	Nil	Good	Good	NIL
J20	Chewing on post no signs of Breeding	Chewing on post no signs of Breeding	1	Nil	Good	Good	Nil
J21	Chewing on post no signs of Breeding	Chewing on post no signs of Breeding	2	Nil	Good	Good	Nil
J22	Chewing on post no signs of Breeding	Chewing on post no signs of Breeding	2	Nil	Good	Good	NIL
J23	Chewing on post no signs of Breeding, cobwebs at base	Chewing on post no signs of Breeding	1	Nil	Good	Good	NIL
J24	Chewing on post no signs of Breeding	Chewing on post no signs of Breeding	1	Nil	Good	Good	NIL

Hollow No	December Results	October Results	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J25	Chewing on post no signs of Breeding	Chewing on post no signs of Breeding	1	Nil	Good	Good	NIL
J26	Chewing on post no signs of Breeding	Chewing on post no signs of Breeding	1	Nil	Good	Good	NIL
J27	Chewing on post no signs of Breeding	Chewing on post no signs of Breeding	1	Nil	Good	Good	NIL
J28	Chewing on post no signs of Breeding	Chewing on post no signs of Breeding	1	Nil	Good	Good	NIL
J29	Chewing on post no signs of Breeding	Chewing on post no signs of Breeding	2	Nil	Good	Good	Nil
J30	Chewing on post no signs of Breeding	Chewing on post no signs of Breeding	3	Nil	Good	Good	Nil
J31	No sign of CC egg - Failure	Female flushed, 1 x Carnaby's Eggs. Fallen branch blocking hollow	3	5lt	Good	Good	Nil
J32	Female Carnaby's nestling 66- days old nestling.	Female flushed, 1x 7 Day old nestling, and 1 x small dead Carnaby's nestling	2	5lt	Good	Good	Nil
J33	No signs of nesting or inspection by Black Cockatoos.	No signs of nesting or inspection by Black Cockatoos.	0	Nil	Good	Good	Nil
J34	Minor chewing on top of post no signs of Breeding	Minor chewing on top of post no signs of Breeding	1	Nil	Good	Good	Nil
J35	Minor chewing on post no signs of Breeding	Minor chewing on post no signs of Breeding	1	Nil	Good	Good	Nil
J36	Minor chewing on post no signs of Breeding	Minor chewing on post no signs of Breeding	1	Nil	Good	Good	Nil

Hollow No	December Results	October Results	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J37	Chewing on post no signs of Breeding	Chewing on post no signs of Breeding	1	Nil	Good	Good	NIL
J38	Chewing on post no signs of Breeding	Chewing on post no signs of Breeding	1	Nil	Good	Good	NIL
J 3 9	Chewing on post no signs of Breeding	Chewing on post no signs of Breeding	1	Nil	Good	Good	NIL
J40	Chewing on post no signs of Breeding	Chewing on post no signs of Breeding	1	Nil	Good	Good	NIL
J41	Female Carnaby's nestling 47- days old nestling.	Female flushed, 2 x Carnaby's Eggs	3	Nil	Good	Good	Nil
J42	Chewing on post no signs of Breeding	Chewing on post no signs of Breeding	1	Nil	Good	Good	NIL
J43	Chewing on post no signs of Breeding	Chewing on post no signs of Breeding	1	Nil	Good	Good	NIL
J44	No signs of nesting or inspection by Black Cockatoos.	No signs of nesting or inspection by Black Cockatoos.	0	Nil	Good	Good	Nil
J45	Chewing on post no signs of Breeding	Chewing on post no signs of Breeding	1	Nil	Good	Good	NIL
J46	Minor chewing on post no signs of Breeding	Minor chewing on post no signs of Breeding	1	Nil	Good	Good	NIL
J47	Minor chewing on post no signs of Breeding	Minor chewing on post no signs of Breeding	1	Nil	Good	Good	NIL
J48	Minor chewing on post no signs of Breeding	Minor chewing on post no signs of Breeding	1	Nil	Good	Good	NIL

Hollow No	December Results	October Results	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J49	Chewing on post no signs of Breeding	Chewing on post no signs of Breeding	1	Nil	Good	Good	Nil
J50	Female Carnaby's nestling 28- days old nestling.	Female flushed, 1 x Carnaby's Eggs	3	5lt	Good	Good	Nil
J51	Chewing on post no signs of Breeding	Chewing on post no signs of Breeding	3	Nil	Good	Good	Nil
J52	Chewing on post no signs of Breeding	Chewing on post no signs of Breeding	1	Nil	Good	Good	Nil
J53	Chewing on post no signs of Breeding	Chewing on post no signs of Breeding	1	Nil	Good	Good	Nil
J54	Chewing on post no signs of Breeding	Chewing on post no signs of Breeding	1	Nil	Good	Good	Nil
J55	Chewing on post no signs of Breeding	Chewing on post no signs of Breeding	1	Nil	Good	Good	NIL
J56	Chewing on post no signs of Breeding	Chewing on post no signs of Breeding	1	Nil	Good	Good	NIL
J57	Chewing on post no signs of Breeding	Chewing on post no signs of Breeding	1	Nil	Good	Good	Nil
J58	No sign of CC egg, a lot of small breast feathers in hollow - Failure	Female flushed, 1 x Carnaby's Eggs	3	5lt	Good	Good	Nil
J 5 9	Chewing on post no signs of Breeding	Chewing on post no signs of Breeding	1	Nil	Good	Good	NIL
J60	Chewing on post no signs of Breeding	Chewing on post no signs of Breeding	2	Nil	Good	Good	NIL

Hollow No	December Result	October Results	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J61	Chewing on post no signs of Breeding	Chewing on post no signs of Breeding	3	Nil	Good	Good	NIL
J62	No signs of nesting or inspection by Black Cockatoos	No signs of nesting or inspection by Black Cockatoos	1	Nil	Good	Good	NIL
J63	No signs of nesting or inspection by Black Cockatoos	No signs of nesting or inspection by Black Cockatoos	1	Nil	Good	Good	NIL
J64	No signs of nesting or inspection by Black Cockatoos.	No signs of nesting or inspection by Black Cockatoos.	0	Nil	Good	Good	Nil
J65	Chewing on post no signs of Breeding	Chewing on post no signs of Breeding	1	Nil	Good	Good	Nil
J66	Chewing on post no signs of Breeding	Chewing on post no signs of Breeding	2	Nil	Good	Good	Nil
J67	No signs of nesting or inspection by Black Cockatoos	No signs of nesting or inspection by Black Cockatoos	0	Nil	Good	Good	NIL
J68	Chewing on post no signs of Breeding	Chewing on post no signs of Breeding	1	Nil	Good	Good	Nil
J69	Chewing on post no signs of Breeding	Chewing on post no signs of Breeding	2	Nil	Good	Good	Nil
J70	Chewing on post no signs of Breeding	Chewing on post no signs of Breeding	2	Nil	Good	Good	Nil

APPENDIX 2 PHOTOGRAPHS AND OBSERVATION DETAILS OF ANH J01 TO J30 – Attached separately.

APPENDIX 3 PHOTOGRAPHS AND OBSERVATION DETAILS OF ANH J31 TO J70– Attached separately.



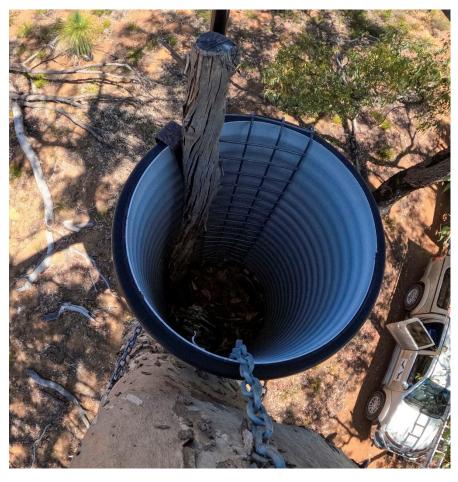


Hollow No	December Result	October Results	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J01	Chewing on post no signs of Breeding	Chewing on post no signs of Breeding	2	5lt	Good	Good	NIL



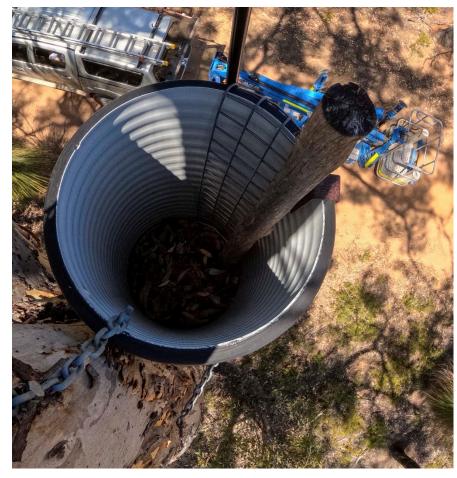
Hollow No	December Result	October Results	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J02	Female Carnaby's nestling 45 days old	Female flushed, 2 x Carnaby's Eggs	3	5lt	Good	Good	





Hollow No	December Result	October Results	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J03	No signs of nesting or inspection by Black Cockatoos, One Dead Boobook	No signs of nesting or inspection by Black Cockatoos, One Dead Boobook	0	Nil	Good	Good	Boobook Owl will decay over time





Hollow No	December Result	October Results	Chipping	Wood	Tree	Fixings and	Recommended
			score 0-10	Chips	condition	Hollow condition	repairs
J04	No signs of nesting or inspection by Black Cockatoos.	No signs of nesting or inspection by Black Cockatoos.	0	Nil	Good	Good	NIL





Hollow No	December Result	October Results	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J05	No signs of nesting or inspection by Black Cockatoos.	No signs of nesting or inspection by Black Cockatoos.	0	Nil	Good	Good	Nil





Hollow No	December Result	October Results	Chipping	Wood	Tree	Fixings and	Recommended
			score 0-10	Chips	condition	Hollow condition	repairs
J06	No signs of nesting or inspection by Black Cockatoos.	No signs of nesting or inspection by Black Cockatoos.	0	Nil	Good	Good	Nil





Hollow No	December Result	October Results	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J07	Chewing on post no signs of Breeding	Chewing on post no signs of Breeding		Nil	Good	Good	Nil



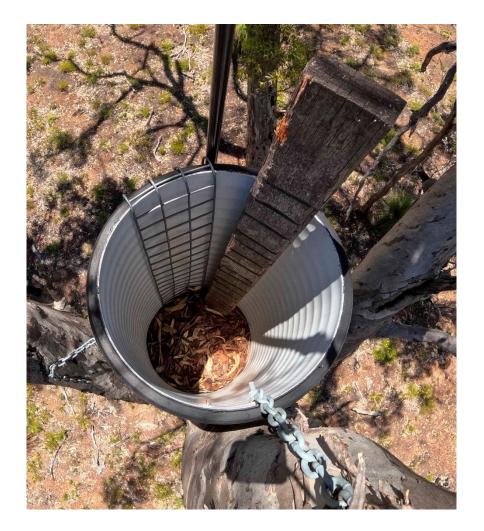


Hollow No	December Result	October Results	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J08	Chewing on post no signs of Breeding	Chewing on post no signs of Breeding	2	Nil	Good	Good	NIL





Hollow No	December Result	October Results	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
109	Chewing on post no signs of Breeding	Chewing on post no signs of Breeding	2	Nil	Good	Good	NIL





Hollow No	December Result	October Results	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J10	Chewing on post no signs of Breeding	Chewing on post no signs of Breeding	1	Nil	Good	Good	NIL



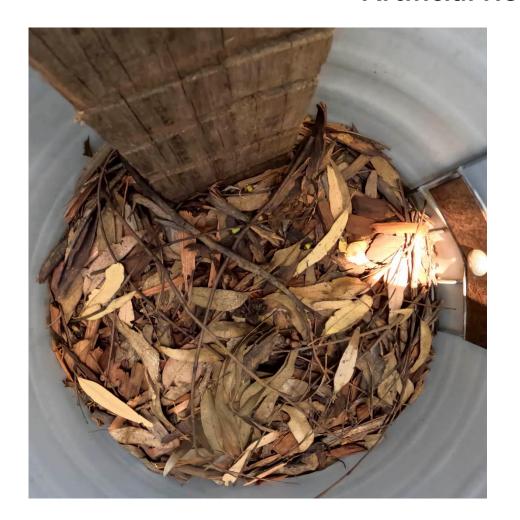


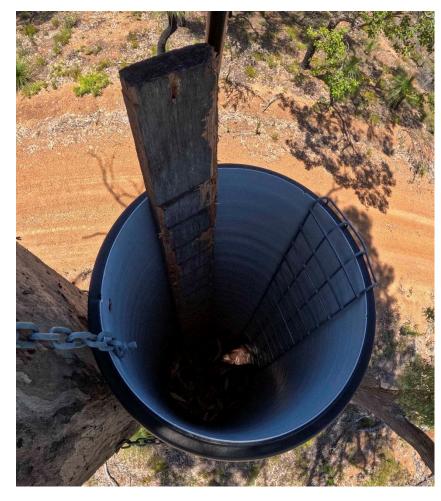
Hollow No	December Result	October Results	Chipping	Wood	Tree	Fixings and	Recommended
			score 0-10	Chips	condition	Hollow condition	repairs
J11	No signs of nesting or inspection by Black Cockatoos.	No signs of nesting or inspection by Black Cockatoos.	0	Nil	Good	Good	Nil





Hollow No	December Result	October Results	Chipping	Wood	Tree	Fixings and	Recommended
			score 0-10	Chips	condition	Hollow condition	repairs
J12	No signs of nesting or inspection by Black Cockatoos.	No signs of nesting or inspection by Black Cockatoos.	0	Nil	Good	Good	Nil



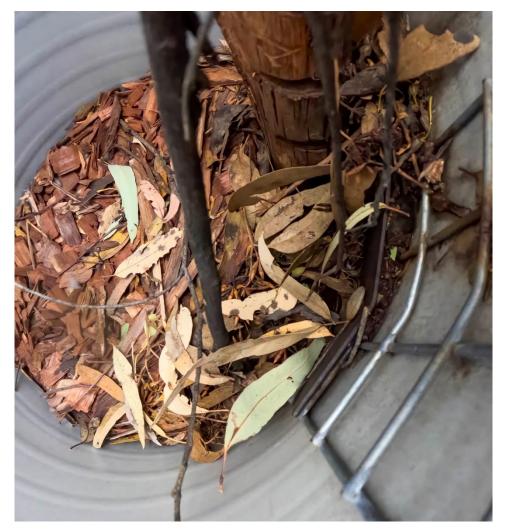


Hollow No	December Result	October Results	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J13	Chewing on post no signs of Breeding. Cobwebs	Chewing on post no signs of Breeding. Cobwebs	2	Nil	Good	Good	NIL





Hollow No	December Result	October Results	Chipping	Wood	Tree	Fixings and	Recommended
			score 0-10	Chips	condition	Hollow condition	repairs
J14	Chewing on post no signs of Breeding	Chewing on post no signs of Breeding	1	Nil	Good	Good	NIL





Hollow No	December Result	October Results	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J15	Chewing on post no signs of Breeding	Chewing on post no signs of Breeding	1	Nil	Good	Good	NIL





Hollow No	December Result	October Results	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J16	Chewing on post no signs of Breeding	Chewing on post no signs of Breeding	1	Nil	Good	Good	NIL



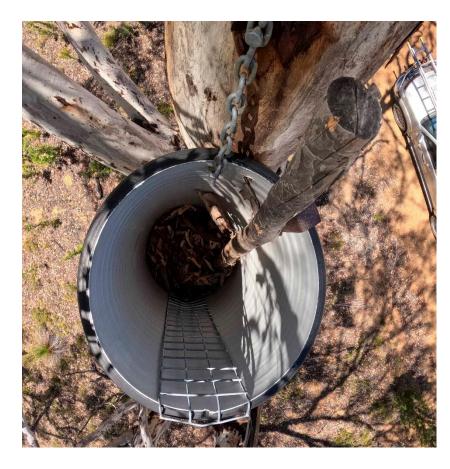


Hollow No	December Result	October Results	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J17	Chewing on post no signs of Breeding	Chewing on post no signs of Breeding	2	Nil	Good	Good	Nil



Hollow No	December Result	October Results	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J18	Chewing on post no signs of Breeding	Chewing on post no signs of Breeding	1	Nil	Good	Good	NIL





Hollow No	December Result	October Results	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J19	Chewing on post no signs of Breeding	Chewing on post no signs of Breeding	1	Nil	Good	Good	NIL



Hollow No	December Result	October Results	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J20	Chewing on post no signs of Breeding	Chewing on post no signs of Breeding	1	Nil	Good	Good	Nil





Hollow No	December Result	October Results	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J21	Chewing on post no signs of Breeding	Chewing on post no signs of Breeding	2	Nil	Good	Good	Nil





Hollow No	December Result	October Results	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J22	Chewing on post no signs of Breeding	Chewing on post no signs of Breeding	2	Nil	Good	Good	NIL



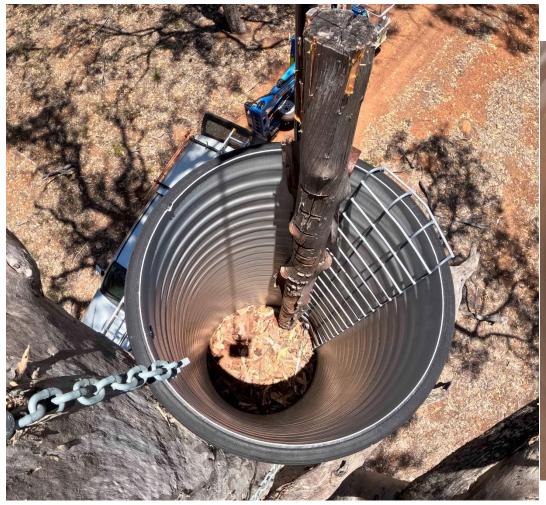


Hollow No	December Result	October Results	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J23	Chewing on post no signs of Breeding, cobwebs at base	Chewing on post no signs of Breeding	1	Nil	Good	Good	NIL



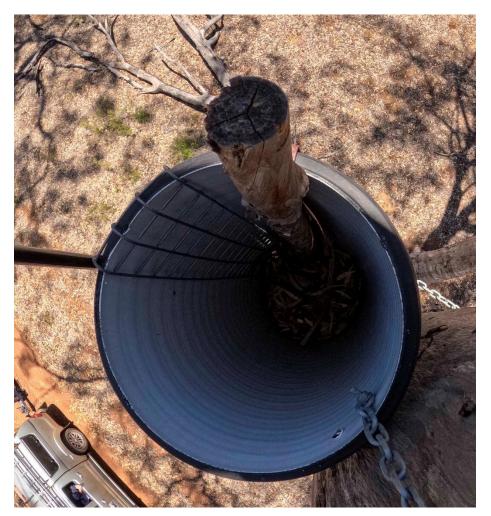


Hollow No	December Result	October Results	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J24	Chewing on post no signs of Breeding	Chewing on post no signs of Breeding	1	Nil	Good	Good	NIL





Hollow No	December Result	October Results	Chipping	Wood	Tree	Fixings and	Recommended
			score 0-10	Chips	condition	Hollow condition	repairs
J25	Chewing on post no signs of Breeding	Chewing on post no signs of Breeding	1	Nil	Good	Good	NIL





Hollow No	December Result	October Results	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J26	Chewing on post no signs of Breeding	Chewing on post no signs of Breeding	1	Nil	Good	Good	NIL





Hollow No	December Result	October Results	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J27	Chewing on post no signs of Breeding	Chewing on post no signs of Breeding	1	Nil	Good	Good	J27





Hollow No	December Result	October Results	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J28	Chewing on post no signs of Breeding	Chewing on post no signs of Breeding	1	Nil	Good	Good	NIL





Hollow No	December Result	October Results	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J29	Chewing on post no signs of Breeding	Chewing on post no signs of Breeding	2	Nil	Good	Good	Nil

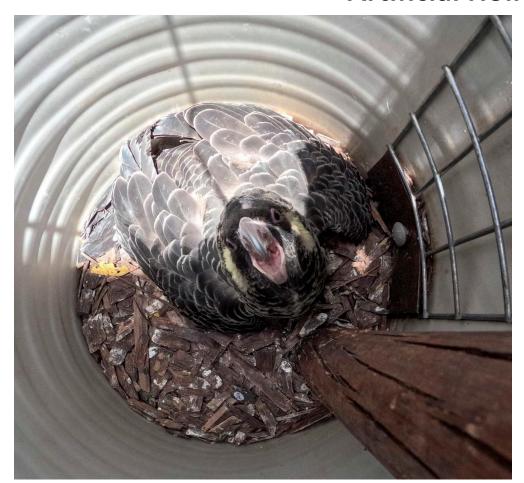


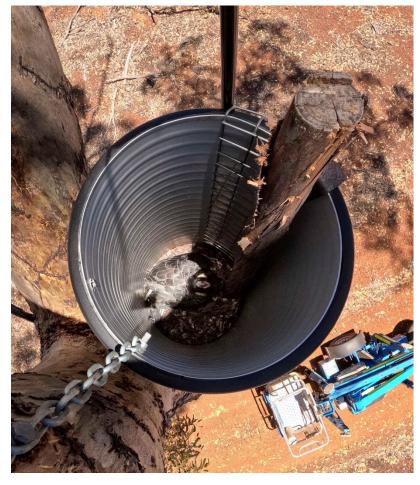
Hollow No	December Result	October Results	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J30	Chewing on post no signs of Breeding	Chewing on post no signs of Breeding	3	Nil	Good	Good	Nil



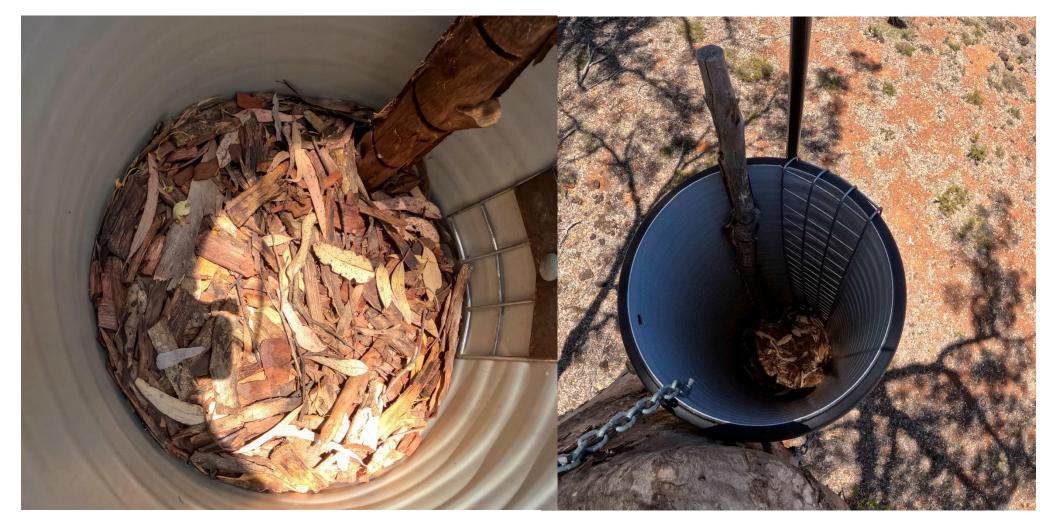


Hollow No	December Result	October Results	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J31	No sign of CC egg - Failure	Female flushed, 1 x Carnaby's Eggs. Fallen branch blocking hollow	3	5lt	Good	Good	Nil





Hollow No	December Result	October Results	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J32	Female Carnaby's nestling 66- days old nestling.	Female flushed, 1x 7 Day old nestling, and 1 x small dead Carnaby's nestling	2	5lt	Good	Good	Nil



Hollow No	December Result	October Results	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J33	No signs of nesting or inspection by Black Cockatoos.	No signs of nesting or inspection by Black Cockatoos.	0	Nil	Good	Good	Nil



Hollow No	December Result	October Results	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J34	Minor chewing on top of post no signs of Breeding	Minor chewing on top of post no signs of Breeding	1	Nil	Good	Good	Nil





Hollow No	December Result	October Results	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J35	Minor chewing on post no signs of Breeding	Minor chewing on post no signs of Breeding	1	Nil	Good	Good	Nil





Hollow No	December Result	October Results	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J36	Minor chewing on post no signs of Breeding	Minor chewing on post no signs of Breeding	1	Nil	Good	Good	Nil





Hollow No	December Result	October Results	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J37	Chewing on post no signs of Breeding	Chewing on post no signs of Breeding	1	Nil	Good	Good	NIL





Hollow No	December Result	October Results	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J38	Chewing on post no signs of Breeding	Chewing on post no signs of Breeding	1	Nil	Good	Good	NIL



Hollow No	December Result	October Results	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J39	Chewing on post no signs of Breeding	Chewing on post no signs of Breeding	1	Nil	Good	Good	NIL





Hollow No	December Result	October Results	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J40	Chewing on post no signs of Breeding	Chewing on post no signs of Breeding	1	Nil	Good	Good	NIL

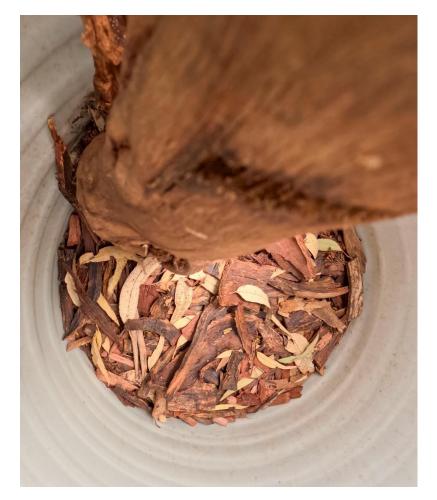


Hollow No	December Result	October Results	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J41	Female Carnaby's nestling47- days old nestling.	Female flushed, 2 x Carnaby's Eggs	3	Nil	Good	Good	Nil





Hollow No	December Result	October Results	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J42	Chewing on post no signs of Breeding	Chewing on post no signs of Breeding	1	Nil	Good	Good	NIL





Hollow No	December Result	October Results	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J43	Chewing on post no signs of Breeding	Chewing on post no signs of Breeding	1	Nil	Good	Good	NIL



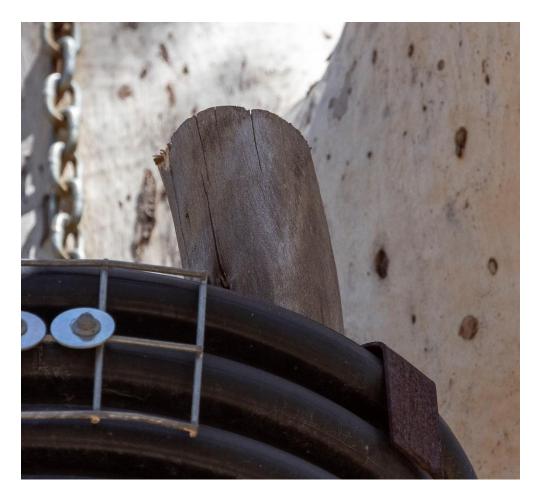


Hollow No	December Result	October Results	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J44	No signs of nesting or inspection by Black Cockatoos.	No signs of nesting or inspection by Black Cockatoos.	0	Nil	Good	Good	Nil



Hollow No	December Result	October Results	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J45	Chewing on post no signs of Breeding	Chewing on post no signs of Breeding	1	Nil	Good	Good	NIL





Hollow No	December Result	October Results	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J46	Minor chewing on post no signs of Breeding	Minor chewing on post no signs of Breeding	1	Nil	Good	Good	NIL



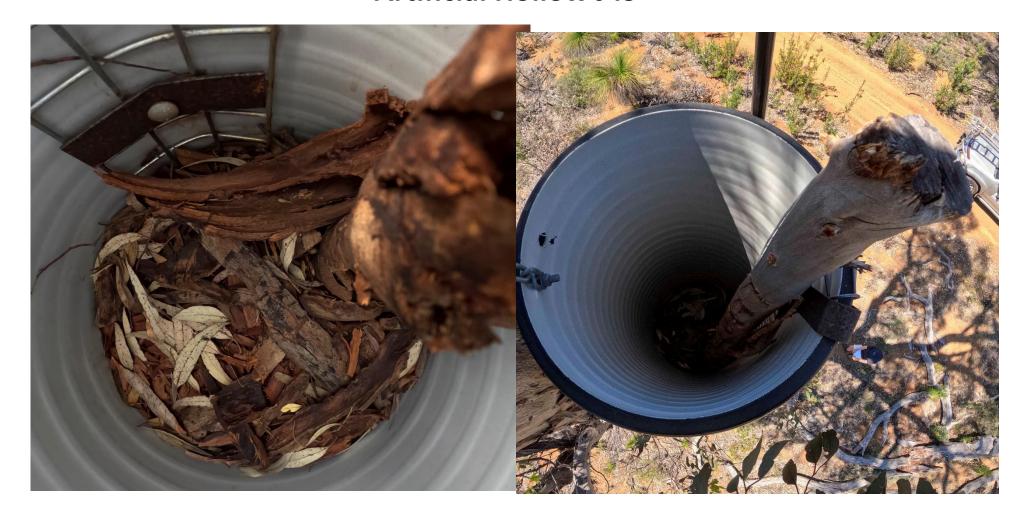


Hollow No	December Result	October Results	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J47	Minor chewing on post no signs of Breeding	Minor chewing on post no signs of Breeding	1	Nil	Good	Good	NIL

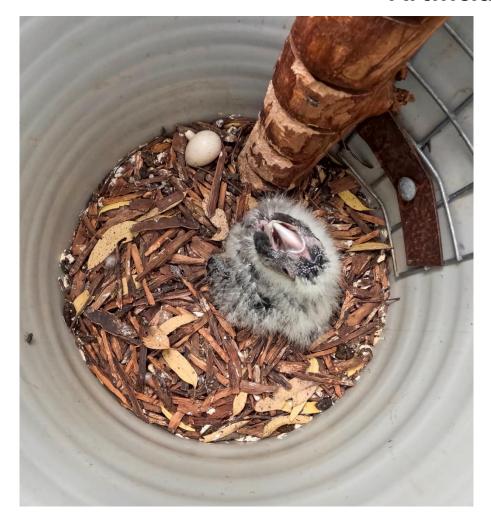


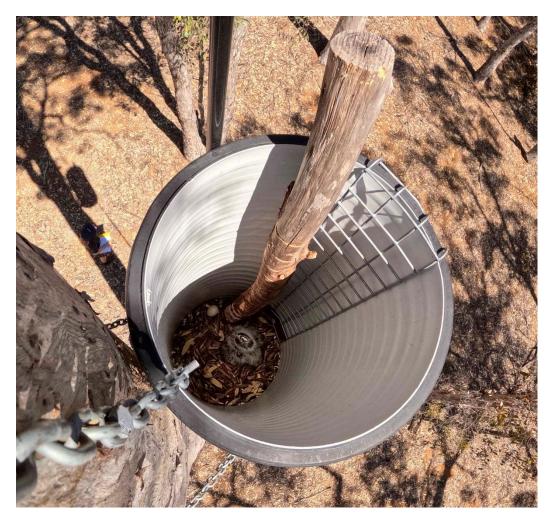


Hollow No	December Result	October Results	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J48	Minor chewing on post no signs of Breeding	Minor chewing on post no signs of Breeding	1	Nil	Good	Good	NIL

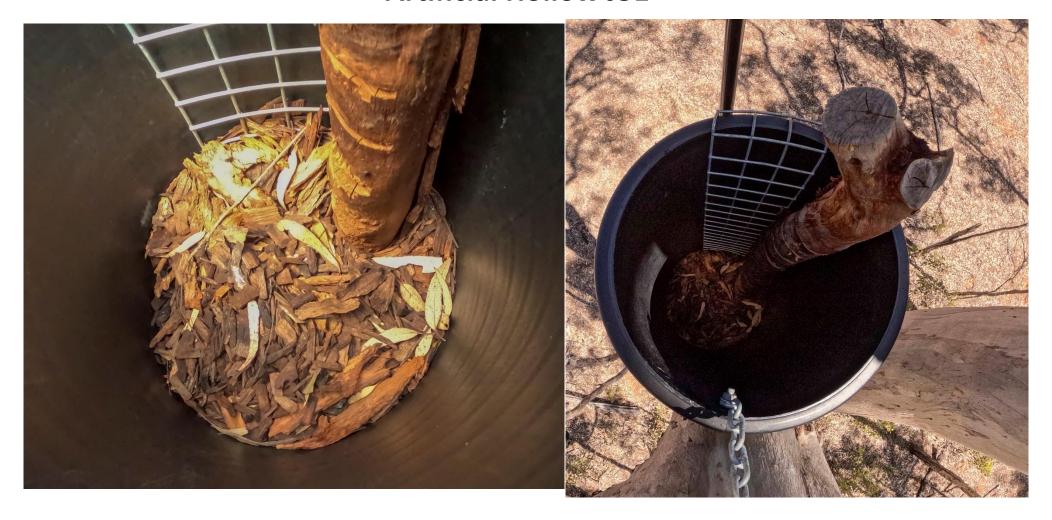


Hollow No	December Result	October Results	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J49	Chewing on post no signs of Breeding	Chewing on post no signs of Breeding	1	Nil	Good	Good	Nil





Hollow No	December Result	October Results	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J50	Female Carnaby's nestling 28- days old nestling.	Female flushed, 1 x Carnaby's Eggs	3	5lt	Good	Good	J50



Hollow No	December Result	October Results	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J51	Chewing on post no signs of Breeding	Chewing on post no signs of Breeding	3	Nil	Good	Good	Nil





Hollow No	December Result	October Results	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J52	Chewing on post no signs of Breeding	Chewing on post no signs of Breeding	1	Nil	Good	Good	Nil





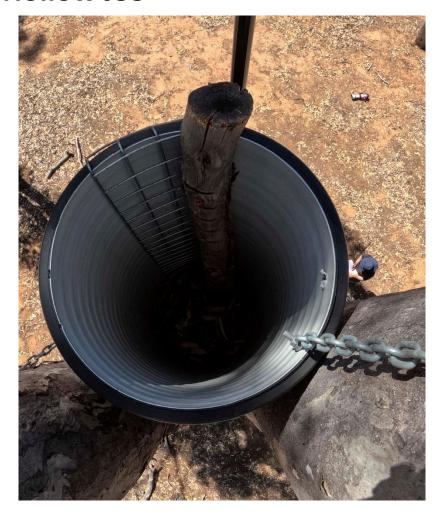
Hollow No	December Result	October Results	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J53	Chewing on post no signs of Breeding	Chewing on post no signs of Breeding	1	Nil	Good	Good	Nil





Hollow No	December Result	October Results	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J54	Chewing on post no signs of Breeding	Chewing on post no signs of Breeding	1	Nil	Good	Good	Nil





Hollow No	December Result	October Results	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J55	Chewing on post no signs of Breeding	Chewing on post no signs of Breeding	1	Nil	Good	Good	NIL





Hollow No	December Result	October Results	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J56	Chewing on post no signs of Breeding	Chewing on post no signs of Breeding	1	Nil	Good	Good	NIL





Hollow No	December Result	October Results	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J57	Chewing on post no signs of Breeding	Chewing on post no signs of Breeding	1	Nil	Good	Good	Nil



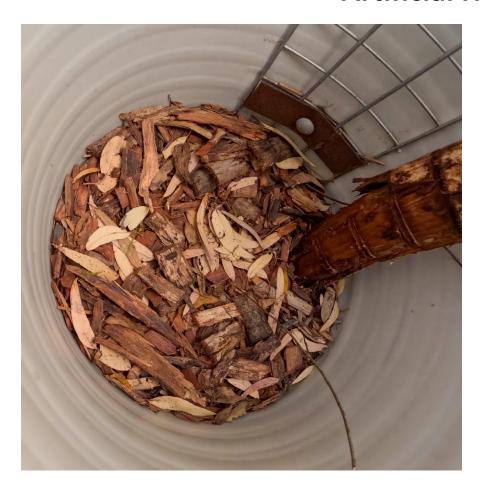


Hollow No	December Result	October Results	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J58	No sign of CC egg, a lot of small breast feathers in hollow - Failure	Female flushed, 1 x Carnaby's Eggs	3	5lt	Good	Good	Nil



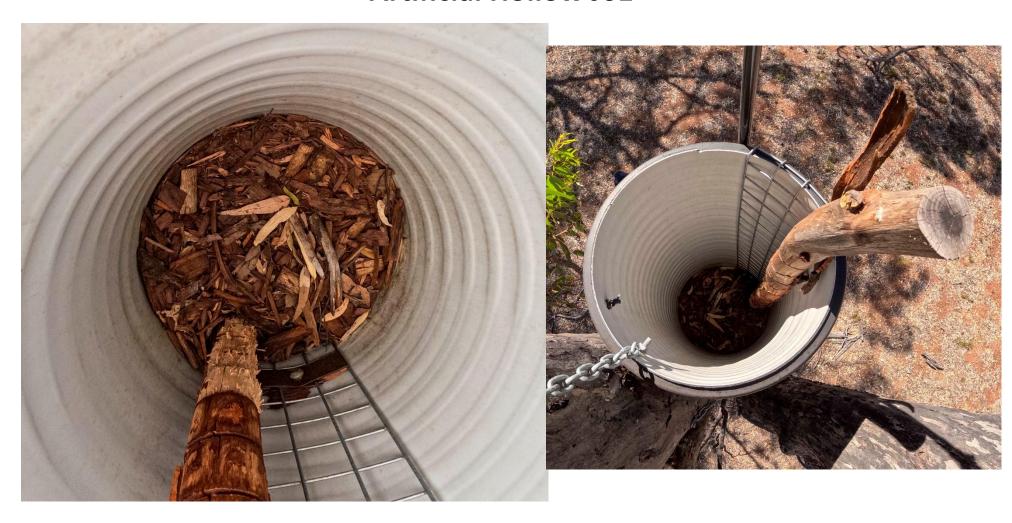


Hollow No	December Result	October Results	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J59	Chewing on post no signs of Breeding	Chewing on post no signs of Breeding	1	Nil	Good	Good	NIL





Hollow No	December Result	October Results	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J60	Chewing on post no signs of Breeding	Chewing on post no signs of Breeding	2	Nil	Good	Good	NIL

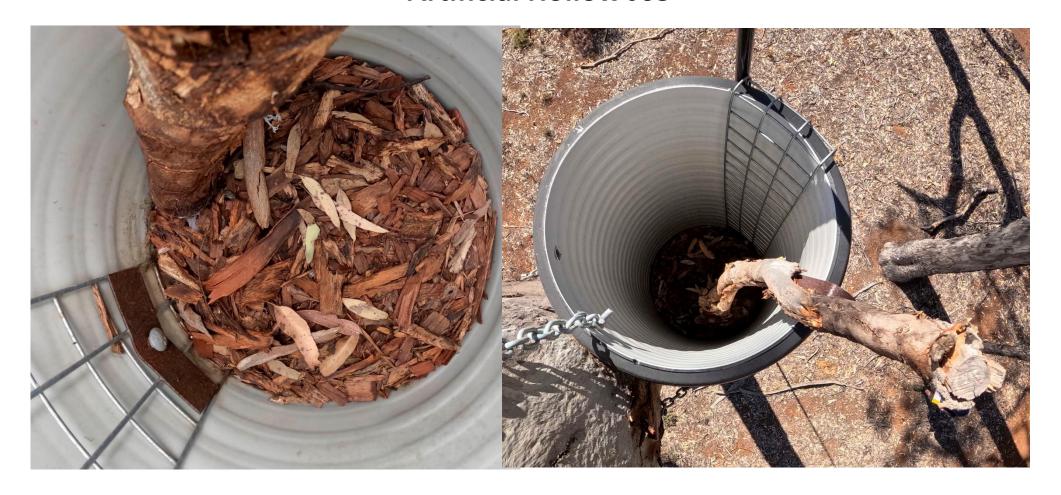


Hollow No	December Result	October Results	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J61	Chewing on post no signs of Breeding	Chewing on post no signs of Breeding	3	Nil	Good	Good	NIL





Hollow No	December Result	October Results	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J62	No signs of nesting or inspection by Black Cockatoos	No signs of nesting or inspection by Black Cockatoos	1	Nil	Good	Good	NIL



Hollow No	December Result	October Results	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J63	No signs of nesting or inspection by Black Cockatoos	No signs of nesting or inspection by Black Cockatoos	1	Nil	Good	Good	NIL





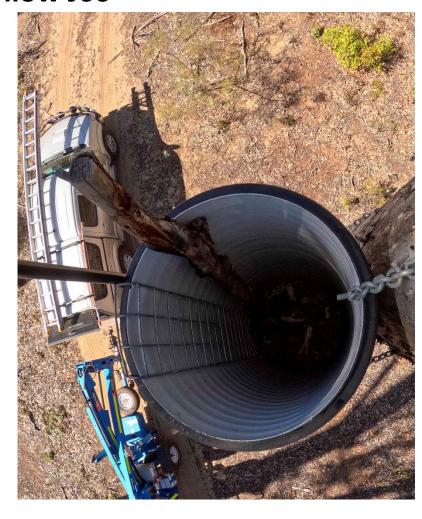
Hollow No	December Result	October Results	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J64	No signs of nesting or inspection by Black Cockatoos.	No signs of nesting or inspection by Black Cockatoos.	0	Nil	Good	Good	Nil





Hollow No	December Result	October Results	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J65	Chewing on post no signs of Breeding	Chewing on post no signs of Breeding	1	Nil	Good	Good	Nil





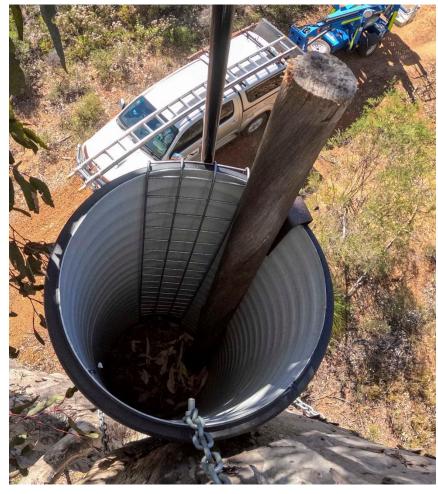
Hollow No	December Result	October Results	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J66	Chewing on post no signs of Breeding	Chewing on post no signs of Breeding	2	Nil	Good	Good	Nil





Hollow No	December Result	October Results	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J67	No signs of nesting or inspection by Black Cockatoos	No signs of nesting or inspection by Black Cockatoos	0	Nil	Good	Good	NIL





Hollow No	December Result	October Results	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J68	Chewing on post no signs of Breeding	Chewing on post no signs of Breeding	1	Nil	Good	Good	Nil





Hollow No	December Result	October Results	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J69	Chewing on post no signs of Breeding	Chewing on post no signs of Breeding	2	Nil	Good	Good	Nil





Hollow No	December Result	October Results	Chipping score 0-10	Wood Chips	Tree condition	Fixings and Hollow condition	Recommended repairs
J70	Chewing on post no signs of Breeding	Chewing on post no signs of Breeding	2	Nil	Good	Good	Nil

Attachment C Artificial Hollow Repair Report – April 2024

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Report: Repair of nine (9) artificial hollows Julimar State Forest W.A



Main Roads Western Australia

16 April 2024



Australian Black Cockatoo Specialists

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All images source: Rick Dawson

INTRODUCTION

Australian Black Cockatoo Specialists (ABCS) are pleased to submit this report to the Department of Main Roads Western Australia (MRWA) regarding the inspection and repair of nine (9) Artificial hollows (ANH) in Julimar State Forest WA, on Monday 15 April 2024.

REPAIR AND INSPECTION METHOD

The objective is to ensure that every hollow is in peak condition, and to establish if there has been <u>any</u> <u>further</u> Black Cockatoo 'prospecting' and/or nesting activity (fledging results) and inspect and repair the artificial hollows as requested. The scope of this project included:

- undertaking a close visual inspection of all ANH's via EWP or ladder, any activity detected was then photographed.
- Inspect tree, fixings and ANH condition.
- Place up to 10lts of course Jarrah wood chips in ANH's as required, posts replaced or reset and obstruction removed.

Black Cockatoos are known to 'prospect' (inspect a hollow for suitability) a number of hollows in the nesting area. This can be done over many days. Prospecting can be one or all of the following:

- Chewing the top of the hollow or sacrificial post,
- Entering hollow,
- Chewing the post at base,
- · Compacting hollow floor, and
- Digging a depression in the hollow floor.



REPLENISHMENT AND RESULTS OF THE NINE ANH

The following observations and repairs were conducted:

- A total of 9 nesting attempts by Carnaby's Cockatoos (CC) were confirmed. Six CC nestlings have fledged.
- As part of the normal compacting/decay up to 10lts of wood chips was placed in each hollow. as per Annex 1. Research has shown that if the substrate becomes too low and CC's have chewed the base which has resulted in eggs falling through (Pers Obs Rick Dawson and Dr Denis Saunders)
- Fledging of the nestling(s) was recorded in J1,2,32,41,51,56.
 Nestlings died in J31 and J65, a CC egg failed in J17.
- The sacrificial post in J56, J31, J02 and J01 were replaced. It is likely that a number of post will need to be changed in 2025.
- Note: there is a 60% failure rate with CC nesting attempts.
- Nine CC nesting attempts fledged 6 nestlings which is a very good result and should continue to increase each year.
- All nine trees are in good condition and there is no need to relocate any hollows at this stage.
- All fixings and the hollows are in very good condition.



RECOMMENDATIONS

• There should be no requirement to add any further substrate to the nests for at least two years, unless compaction and/or decay from nesting attempts occurs.

- All fixings and ANH's should last 50 years, and
- That a nesting surveys should be conducted in October and December 2024, to ensure all
 nesting attempts and recorded and to enable data to be taken from nestlings to provide
 valuable information on the health of the birds using the area.

CONCULSIONS

All hollows are now in peak condition and ready for this year's breeding season.

These results are very encouraging and consistent with other sites that have had artificial hollows installed for the first time in known breeding sites. In these sites it has taken a couple of years for the birds to become comfortable enough to breed in them. As there have now been nine breeding attempts and prospecting in most hollows, it is very likely that nesting attempts will continue to grow with each year.

CONTACT INFORMATION

Contact Name: Rick Dawson

Position: Principal Consultant

Phone: 0448 170 670

Email: dawsonrick60@gmail.com

Rick Dawson

Director

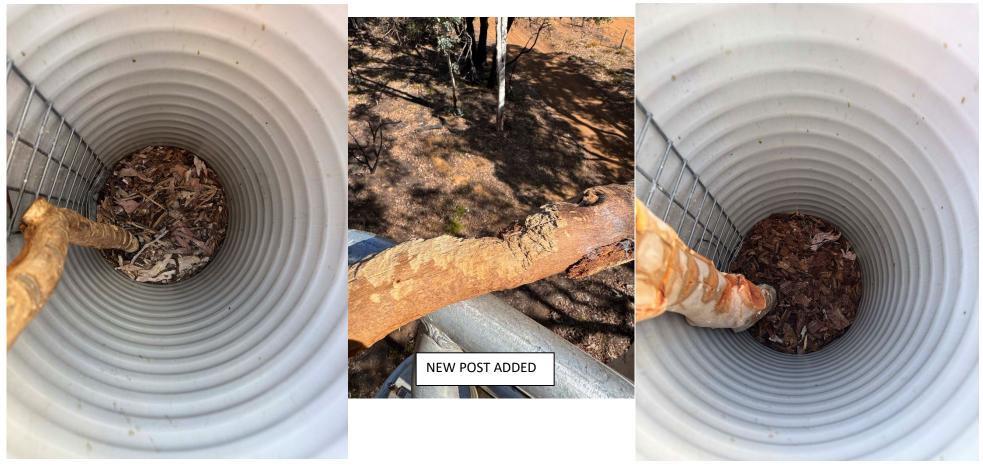
Australian Black Cockatoo Specialist

16 April 2024

APPENDIX 1 – LIST OF REPAIRS.

Hollow No	Observations December 2023	Recommended Repairs DEC23.	Actual repairs/comments
J01	One-52 day old male Carnaby's nestling, 1 x Carnaby's Egg removed (not being incubated).	5lts	8LTS wood chips, new post added. Nestling Fledged
J02	One-56 day old female Carnaby's nestling, heavy chipping on post by a female Carnaby's.	5lts, new post	8LTS wood chips, new post added. Nestling Fledged
J17	One x Carnaby's egg in centre of hollow, female not flushed or observed. Chewing on post.	5lts	5LTS wood chips, one Carnaby's egg <u>failed</u> (hole in egg - possible predation) and removed.
J31	One <u>dead</u> 42-day old Carnaby's nestling, removed. Most likely died from large branch falling and hitting hollow, heavy chipping on post by a female Carnaby's.	5lts	8LTS wood chips, new post added. Failure
J32	One 53-day old female Carnaby's nestling., very little chipping on post by a female Carnaby's.	5lts, new post	8LTS wood chips, post not changed. Nestling Fledged
J41	One 25-day old male Carnaby's nestling. Dead second nestling removed for DNA, chipping on post.	5lts	10LTS wood chips. Nestling Fledged
J51	One 60-day old male Carnaby's nestling., chipping on post by a female Carnaby's.	5lts	8LTS wood chips. <u>Nestling Fledged</u>
J56	One 52-day old female Carnaby's nestling., heavy chipping on post by a female Carnaby's.	5lts, new post	5LTS wood chips, new post added. Nestling Fledged
J65	One <u>dead</u> 35-day old Carnaby's nestling, removed. Most likely predation from Chuditch or possum, chipping on post by a female Carnaby's	5lts	8LTS wood chips. <u>Failure</u>

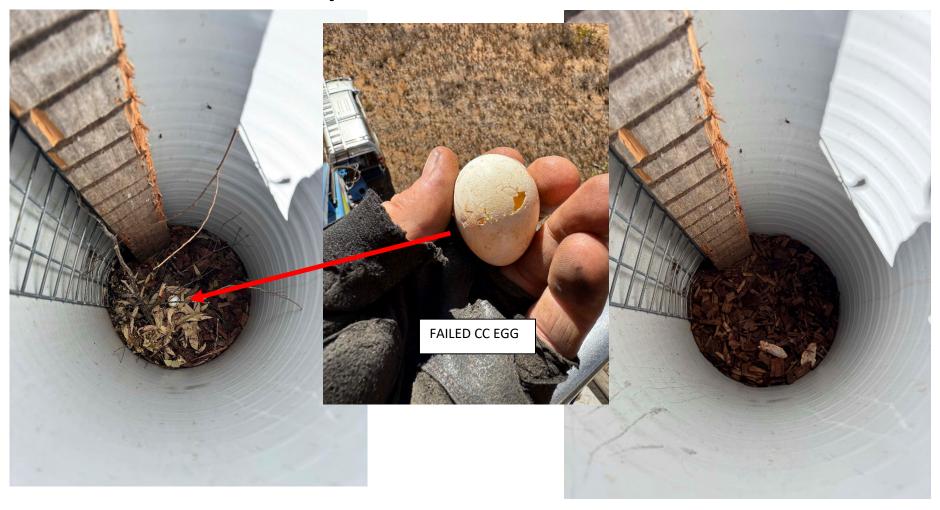
APPENDIX 2 - PHOTOGRAPS OF REPAIRS TO NINE HOLLOWS.



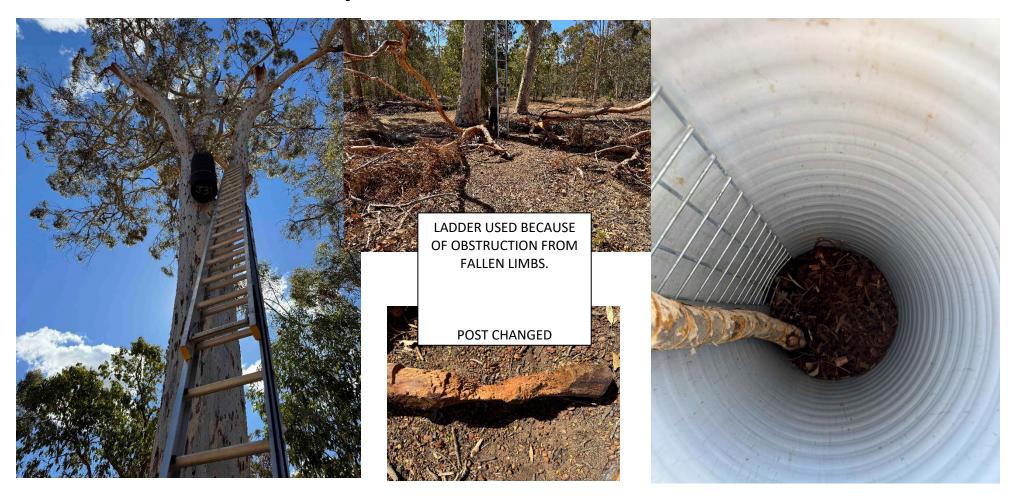
Hollow	Observations December 2023	Recommended	Actual repairs/comments
No		Repairs DEC23.	
J01	One-52 day old male Carnaby's nestling, 1 x Carnaby's Egg removed (not	5lts	8LTS wood chips, new post added. Nestling Fledged
	being incubated).		



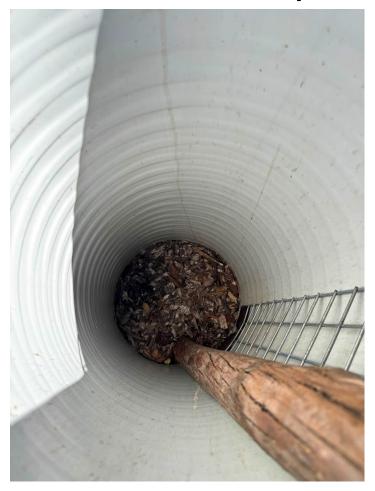
Hollow	Observations December 2023	Recommended	Actual repairs/comments
No		Repairs DEC23.	
J02	One-56 day old female Carnaby's nestling, heavy chipping on post by a	5lts, new post	8LTS wood chips, new post added. Nestling Fledged
	female Carnaby's.		



Hollow No	Observations December 2023	Recommended Repairs DEC23.	Actual repairs/comments
J17	One x Carnaby's egg in centre of hollow, female not flushed or observed. Chewing on post.		5LTS wood chips, Carnaby's egg <u>failed</u> (hole in egg possible predation) and removed.

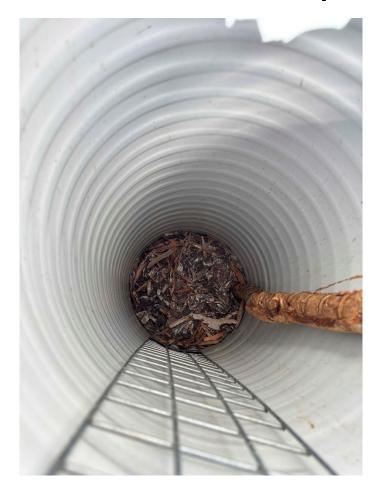


Hollow	Observations December 2023	Recommended	Actual repairs/comments
No		Repairs DEC23.	
J31	One <u>dead</u> 42-day old Carnaby's nestling, removed. Most likely died from large	5lts	8LTS wood chips, new post added. Failure
	branch falling and hitting hollow, heavy chipping on post by a female		
	Carnaby's.		



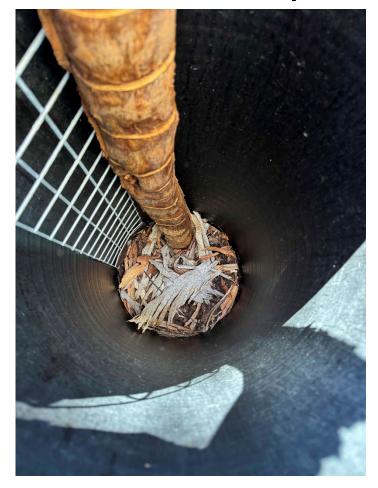


Hollow	Observations December 2023	Recommended	Actual repairs/comments
No		Repairs DEC23.	
J32	One 53-day old female Carnaby's nestling., very little chipping on post by a	5lts, new post	8LTS wood chips, post not changed. Nestling Fledged
	female Carnaby's.		





Hollow	Observations December 2023	Recommended	Actual repairs/comments
No		Repairs DEC23.	
J41	One 25-day old male Carnaby's nestling. Dead second nestling removed for	5lts	10LTS wood chips. Nestling Fledged
	DNA, chipping on post.		





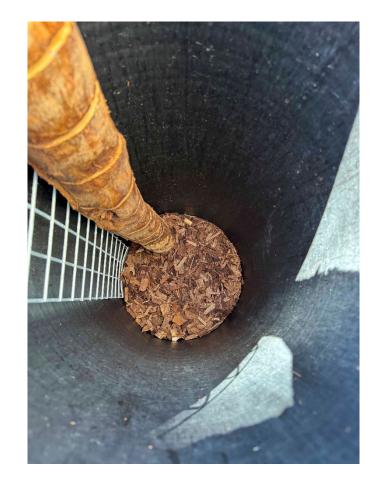
Hollow	Observations December 2023	Recommended	Actual repairs/comments
No		Repairs DEC23.	
J51	One 60-day old male Carnaby's nestling., chipping on post by a female	5lts	8LTS wood chips. Nestling Fledged
	Carnaby's.		





Hollow	Observations December 2023	Recommended	Actual repairs/comments
No		Repairs DEC23.	
J56	One 52-day old female Carnaby's nestling., heavy chipping on post by a	5lts, new post	5LTS wood chips, new post added. Nestling Fledged
	female Carnaby's.		





Hollow	Observations December 2023	Recommended	Actual repairs/comments
No		Repairs DEC23.	
J65	One <u>dead</u> 35-day old Carnaby's nestling, removed. Most likely predation from	5lts	8LTS wood chips. <u>Failure</u>
	Chuditch or possum, chipping on post by a female Carnaby's		