

# NEOEN

ADDITIONAL INFORMATION REQUIRED -CROSS REFERENCE TABLE

FINAL - ATTACHMENT A

August 2023

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# Additional information Required - Cross Reference Table

## FINAL – ATTACHMENT A

Prepared by Umwelt (Australia) Pty Limited on behalf of Neoen Australia Pty Ltd





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Informat	tion Required	Relevant Location(s)	
1. Descri	1. Description of the Action		
1.1	Include a refined description of the action and project layout as well as any updated information if changes have been made to the project since the referral documentation was submitted.	<ul> <li>A response to the RFI is provided in Section 2 of Preliminary Documentation report.</li> <li>Section 5.0 presents the overall change in impact between the referral and the current variation.</li> <li>The updated Assessment of Matters of National Environmental Significance report is provided as Attachment B1.</li> </ul>	
2. Habita	at Assessment		
2.1 Gene	eral habitat assessment information required		
2.1.1	Provide an updated habitat assessment for relevant listed threatened species and communities. Include references to updated species advice from the SPRAT Database.	<ul> <li>A response to the RFI is provided in Section 3.1 of Preliminary Documentation report.</li> <li>Updated habitat assessments are provided in Appendix E (Detailed Habitat Assessments and Significant Impact Assessments) of Attachment B4 (Assessment of Matters of National Environmental Significance).</li> </ul>	
2.1.2	<ul> <li>Provide detailed mapping of suitable habitat for all listed threatened species and communities, which:</li> <li>is specific to the habitat assessment undertaken for each listed threatened species and ecological community (i.e., does not only illustrate relevant Queensland REs);</li> <li>includes an overlay of the updated project disturbance footprint;</li> <li>includes known records of individuals derived from desktop analysis and field surveys; and</li> <li>is provided separately as attachments in JPEG format.</li> </ul>	<ul> <li>A response to the RFI is provided in Section 3.1 of Preliminary Documentation report.</li> <li>Updated habitat assessments are provided in Appendix E (Detailed Habitat Assessments and Significant Impact Assessments) of Attachment B4 (Assessment of Matters of National Environmental Significance).</li> <li>JPEGs of the mapping are provided as Attachment L.</li> </ul>	
2.1.3	Include an assessment of the adequacy of any surveys undertaken (including survey effort and timing). In particular, the extent to which these surveys were appropriate for the listed species or community and undertaken in accordance with relevant departmental survey guidelines.	<ul> <li>A response to the RFI is provided in Section 3.1 of Preliminary Documentation report.</li> <li>Survey Effort and Adequacy are discussed in Table 4.3, Section 4 of Attachment B1 (Assessment of Matters of National Environmental Significance).</li> </ul>	

### Table A1Preliminary Documentation Cross Reference Table



Informa	tion Required	Relevant Location(s)	
2.2 Spec	2.2 Specific threatened species habitat assessment information required		
Collared	Delma ( <i>Delma torquata</i> ) – Vulnerable		
2.2.1	Discuss the habitat features, including ground cover composition, across the project footprint. Provide a map of habitat features including location of diurnal survey sites.	<ul> <li>A response to the RFI is provided in Section 3.2.1 of the Preliminary Documentation report.</li> <li>Habitat is discussed in Section 2.2.1 of Appendix E (Detailed Habitat Assessments and Significant Impact Assessments) of Attachment B4 (Assessment of Matters of National Environmental Significance).</li> <li>Mapping is provided as Figure 7.12 of Attachment B2 (Assessment of Matters of National Environmental Significance).</li> <li>Mapping in JPEG format is provided in Attachment L.</li> </ul>	
2.2.2	Discussion of habitat use requirements, including consideration of known important habitat and suitable habitats.	<ul> <li>A response to the RFI is provided in Section 3.2.1 of the Preliminary Documentation report.</li> <li>Habitat use requirements are discussed in Section 2.2.1 of Appendix E (Detailed Habitat Assessments and Significant Impact Assessments) of Attachment B4 (Assessment of Matters of National Environmental Significance).</li> </ul>	
2.2.3	Total area (in hectares) of each identified habitat type (e.g., known important habitat, suitable habitats, etc.).	<ul> <li>A response to the RFI is provided in Section 3.2.1 of the Preliminary Documentation report.</li> <li>Habitat criteria and justification for the extent of mapping are provided in Section 2.2.1 of Appendix E (Detailed Habitat Assessments and Significant Impact Assessments) of Attachment B4 (Assessment of Matters of National Environmental Significance).</li> <li>The extent of habitat is provided in Table 3.2 of the Preliminary Documentation report and Table 2.3 of Appendix E (Detailed Habitat Assessments and Significant Impact Assessments) of Attachment B4 (Assessment of Matters of National Environmental Significance).</li> </ul>	



Informa	tion Required	Relevant Location(s)
Cycas m	egacarpa – Endangered	
2.2.4	Discussion of habitat and number of individuals in the project footprint, project area and broader region.	<ul> <li>A response to the RFI is provided in Section 3.2.2 of the Preliminary Documentation report.</li> <li>A discussion of habitat and projected number of individuals is provided in the following locations:         <ul> <li>Attachment B1 (Assessment of Matters of National Environmental Significance).</li> <li>Attachment E (Preliminary <i>Cycas megacarpa</i> Species Management Plan).</li> <li>Attachment J (Preliminary <i>Cycas megacarpa</i> Translocation Management Plan).</li> </ul> </li> </ul>
2.2.5	Include a further assessment and understanding of the local population. Note: The National Multi-species Recovery Plan for the cycads, Cycas megacarpa, Cycas ophiolitica, Macrozamia cranei, Macrozamia lomadroides, Marcozamia pauli-giulielmi and Macrozamia platyrhachis (the Recovery Plan) (Queensland Herbarium, 2007) states Population 6 has approximately 28 individuals and is 900 m to the east of the project site. The department considers it is unlikely that the Mount Hopeful population is part of Population 6 given that Cycas megacarpa is a species with limited dispersal.	<ul> <li>A response to the RFI is provided in Section 3.2.2 of the Preliminary Documentation report.</li> <li>Detail on survey effort provided in Section 4.2.1.3 of Attachment B1 (Assessment of Matters of National Environmental Significance).</li> <li>Location map of surveyed areas/non-surveyed areas is provided as Figure 6.2 of the Attachment B1 (Assessment of Matters of National Environmental Significance).</li> <li>Discussion of <i>Cycas megacarpa</i> populations including impacts to and distance from neighbouring populations is provided in Section 1.1.1.3 of Appendix E of Attachment B4 (Assessment of Matters of National Environmental Significance).</li> <li>Regional map of populations relative to the Project is provided as Figure 1.1 in Appendix E (Detailed Habitat Assessments and Significant Impact Assessments) of Attachment B4 (Assessment of Matters of National Environmental Significance).</li> <li>A discussion of habitat and projected number of individuals is provided in the following locations:         <ul> <li>Attachment B1 (Assessment of Matters of National Environmental Significance).</li> <li>Attachment B1 (Assessment of Matters of National Environmental Significance).</li> <li>Attachment B1 (Assessment of Matters of National Environmental Significance).</li> <li>Attachment B1 (Preliminary <i>Cycas megacarpa</i> Species Management Plan).</li> <li>Attachment J (Preliminary <i>Cycas megacarpa</i> Translocation Management Plan).</li> </ul> </li> </ul>



Informa	tion Required	Relevant Location(s)	
Greater	Greater Glider ( <i>Petauroides volans</i> ) – Vulnerable		
2.2.6	Include a map of potential denning and foraging habitat in Eucalypt Forest and woodland adjacent to areas of Eucalypt Forest and woodland which contain tree hollows.	<ul> <li>A response to the RFI is provided in Section 3.2.3 of the Preliminary Documentation report.</li> <li>Habitat criteria and justification for the extent of mapping are provided in Section 2.2.6 of Appendix E (Detailed Habitat Assessments and Significant Impact Assessments) of Attachment B4 (Assessment of Matters of National Environmental Significance).</li> <li>The habitat definitions in Table 2.14 of Appendix E (Detailed Habitat Assessments and Significant Impact Assessments) of Attachment B4 (Assessment B4 (Assessment of Matters of National Environmental Significance).</li> <li>Justification of the habitat rules is provided in Section 2.2.6.4 of Attachment B1 (Assessment of Matters of National Environmental Significance).</li> <li>Mapping is provided as Figure 7.9 of Attachment B2 (Assessment of Matters of National Environmental Significance).</li> <li>Mapping in JPEG format is provided in Attachment L.</li> </ul>	
2.2.7	Include the total area (in hectares) of Greater Glider habitat, including breeding and foraging habitat.	<ul> <li>A response to the RFI is provided in Section 3.2.3 of the Preliminary Documentation report.</li> <li>The extent of habitat is provided in Table 3.7 of the Preliminary Documentation report and Table 2.14 of Appendix E (Detailed Habitat Assessments and Significant Impact Assessments) of Attachment B4 (Assessment of Matters of National Environmental Significance).</li> </ul>	
Koala (P	hascolarctos cinereus) (combined populations of Qld, NSW and the ACT) – En	dangered	
2.2.8	A discussion of habitat and habitat use requirements (e.g., foraging, dispersal, shelter, etc.) in line with the updated Conservation Advice.	<ul> <li>A response to the RFI is provided in Section 3.2.4 of the Preliminary Documentation report.</li> <li>Habitat use requirements are discussed in Section 1.2.2 of Appendix E (Detailed Habitat Assessments and Significant Impact Assessments) of Attachment B4 (Assessment of Matters of National Environmental Significance).</li> <li>Mapping rule has been updated as per Table 2.7 of Appendix E of Attachment B1 (Assessment of Matters of National Environmental Significance).</li> </ul>	



Informat	ion Required	Relevant Location(s)
Northern Quoll ( <i>Dasyurus hallucatus</i> ) – Endangered		
2.2.9	The referral states that breeding habitat for this species is remnant rocky woodland within 100 m of a mapped creek or gully. Provide justification for this definition (include peer reviewed scientific articles).	<ul> <li>A response to the RFI is provided in Section 3.2.5 of the Preliminary Documentation report.</li> <li>An updated detailed habitat assessment is provided in Section 1.2.1 of Appendix E (Detailed Habitat Assessments and Significant Impact Assessments) of Attachment B4 (Assessment of Matters of National Environmental Significance).</li> <li>Mapping is provided as Figure 7.6 of Attachment B2 (Assessment of Matters of National Environmental Significance).</li> <li>Mapping in JPEG format is provided in Attachment L.</li> </ul>
2.2.10	Provide the total area (in hectares) of Northern Quoll habitat that will be impacted by the development (include breeding, dispersal and foraging habitat as part of habitat calculations).	<ul> <li>A response to the RFI is provided in Section 3.2.5 of the Preliminary Documentation report.</li> <li>The extent of habitat is provided in Table 3.10 of the Preliminary Documentation report and Table 1.11 of Appendix E (Detailed Habitat Assessments and Significant Impact Assessments) of Attachment B4 (Assessment of Matters of National Environmental Significance).</li> </ul>
Squatter	· Pigeon (Southern) ( <i>Geophaps scripta scripta</i> ) – Vulnerable	
2.2.11	A discussion of breeding, foraging and dispersal habitat requirements across the study site.	<ul> <li>A response to the RFI is provided in Section 3.2.6 of the Preliminary Documentation report.</li> <li>Habitat use requirements are discussed in Section 2.2.3 of Appendix E (Detailed Habitat Assessments and Significant Impact Assessments) of Attachment B4 (Assessment of Matters of National Environmental Significance).</li> </ul>
2.2.12	Include a map of all water bodies on site with an overlay of the different habitat features (e.g., breeding, foraging, dispersal).	<ul> <li>A response to the RFI is provided in Section 3.2.6 of the Preliminary Documentation report.</li> <li>Mapping is provided as Figure 7.13 of Attachment B3 (Assessment of Matters of National Environmental Significance).</li> <li>Mapping in JPEG format is provided in Attachment L.</li> </ul>



Informat	tion Required	Relevant Location(s)
2.2.13	Identification of permanent or seasonal water bodies or watercourses within 1 km of the disturbance footprint to support breeding habitat.	<ul> <li>A response to the RFI is provided in Section 3.2.6 of the Preliminary Documentation report.</li> <li>Mapping is provided as Figure 7.13 of Attachment B3 (Assessment of Matters of National Environmental Significance).</li> <li>Mapping in JPEG format is provided in Attachment L.</li> </ul>
2.2.14	Identification of permanent or seasonal water bodies or watercourses within 3 km of the disturbance footprint to support foraging habitat.	<ul> <li>A response to the RFI is provided in Section 3.2.6 of the Preliminary Documentation report.</li> <li>Mapping is provided as Figure 7.13 of Attachment B3 (Assessment of Matters of National Environmental Significance).</li> <li>Mapping in JPEG format is provided in Attachment L.</li> </ul>
2.2.15	The total area (in hectares) of each breeding, foraging and dispersal habitat type, including consideration of disturbed (non-remnant vegetation) areas.	<ul> <li>A response to the RFI is provided in Section 3.2.6 of the Preliminary Documentation report.</li> <li>The extent of habitat is provided in Table 3.11 of the Preliminary Documentation report and Table 2.7 of Appendix E (Detailed Habitat Assessments and Significant Impact Assessments) of Attachment B4 (Assessment of Matters of National Environmental Significance).</li> </ul>
White-tl	nroated Needletail ( <i>Hirundapus caudacutus</i> ) – Vulnerable	
2.2.16	Provide a detailed discussion and map of potential foraging habitat identifying areas with prominent updraughts, and potential roosting habitat.	<ul> <li>A response to the RFI is provided in Section 3.2.7 of the Preliminary Documentation report.</li> <li>Habitat use requirements are discussed in Section 2.2.5 of Appendix E (Detailed Habitat Assessments and Significant Impact Assessments) of Attachment B4 (Assessment of Matters of National Environmental Significance).</li> <li>Mapping is provided as Figure 7.7 of Attachment B2 (Assessment of Matters of National Environmental Significance).</li> <li>Mapping in JPEG format is provided in Attachment L.</li> </ul>



Informat	tion Required	Relevant Location(s)
2.2.17	Provide total area (in hectares) of each identified habitat type (e.g., roosting habitat, foraging habitats, etc.).	<ul> <li>A response to the RFI is provided in Section 3.2.7 of the Preliminary Documentation report.</li> <li>The extent of habitat is provided in Table 3.12 of the Preliminary Documentation report and Table 2.11 of Appendix E (Detailed Habitat Assessments and Significant Impact Assessments) of Attachment B4 (Assessment of Matters of National Environmental Significance).</li> </ul>
2.2.18	<ul> <li>Provide more detail on observations of White-throated Needletails, include incidental observations. Include:</li> <li>location of incidental observations.</li> <li>number of observations from each vantage point / incidental observation point (include number of times evening surveys conducted and no birds detected).</li> <li>number of individuals per observation.</li> <li>detail on time period observed at each observation point (currently a four-hour window).</li> <li>discussion on any individuals observed coming in to roost.</li> </ul>	<ul> <li>A response to the RFI is provided in Section 3.2.7 of the Preliminary Documentation report.</li> <li>The occurrence of the species is discussed in Section 2.2.5.4 of Appendix E (Detailed Habitat Assessments and Significant Impact Assessments) of Attachment B4 (Assessment of Matters of National Environmental Significance).</li> <li>All observations made during the field survey programme are identified in Table 3.13 of the Preliminary Documentation report.</li> <li>Mapping depicting record locations is provided as Figure 7.7 of Attachment B2 (Assessment of Matters of National Environmental Significance).</li> <li>Mapping in JPEG format is provided in Attachment L.</li> </ul>
2.3 Migr 2.3.1	<ul> <li>atory bird and bat species habitat assessment</li> <li>Desktop assessment         To predict the potential for the above listed threatened and migratory bird and bat species to be using the project site and its surrounds, the         Preliminary Documentation must include the process and outcomes of:         <ul> <li>A preliminary site characterisation (desktop and/or initial site visit) for             each species to identify all drivers of presence on the project site and             utilisation of the project site. This characterisation must include, but             not limited to, the consideration of:         <ul> <li><u>site characteristics</u>: focal habitat features, topography, prevailing wind             and weather patterns, wetlands (including adjacent to project site),             and distance to potential nesting, roosting and foraging areas.</li> </ul> </li> </ul></li></ul>	<ul> <li>A response to the RFI is provided in Section 3.3 of the Preliminary Documentation report.</li> <li>Section 2.2.2.1 of Appendix E (Detailed Habitat Assessments and Significant Impact Assessments) of Attachment B4 (Assessment of Matters of National Environmental Significance) updated to reflect the uplisting of red goshawk.</li> <li>The process and outcomes of the desktop assessment is discussed in the following locations:         <ul> <li>Attachment B (Assessment of Matters of National Environmental Significance).</li> <li>Attachment B (Assessment of Matters of National Environmental Significance).</li> <li>Appendix A (Bird and Bat Utilisation Assessment) of Attachment G (Preliminary Bird and Bat Adaptive Management Plan).</li> </ul> </li> </ul>



Information Required	Relevant Location(s)
<ul> <li><u>species characteristics:</u> behaviour, flight or demographic factors         <ul> <li>(e.g., species presence [ongoing, transitory/migratory]), site use</li> <li>(e.g., transit, roosting, breeding and/or foraging), flight paths</li> <li>(including migratory flight paths), flight heights, soaring, flocking, and population numbers.</li> </ul> </li> </ul>	
<ul> <li>2.3.2 Site-specific assessment</li> <li>To validate the outcomes of the desktop assessment, the Preliminary Documentation must include a detailed discussion of how at-risk listed threatened and migratory bird and bat species are using the project site (both project area and proposed disturbance footprint). This discussion must be informed by site-specific and species-specific site utilisation surveys (undertaken by a suitably qualified expert) and supported by other relevant scientific evidence. Further, this discussion must include detailed information on:</li> <li>How the design of the site utilisation surveys for each relevant species has been informed by its drivers of presence on the project site and utilisation of the project site and its surrounds (as determined through the preliminary site characterisation).</li> <li>How site utilisation surveys for each relevant species have been designed to improve understanding of site utilisation on the project site and its surrounds, and support an ongoing Before-After, Control Impact (BACI) framework for an adaptive Bird and Bat Management Plan (BBMP).</li> <li>The proposed site utilisation survey methodology for each relevant species must be included as an appendix to the Preliminary Documentation.</li> <li>At least 24 months of site utilisation surveys must be undertaken to provide sufficient baseline data about a relevant species potential to utilise the project site and its surrounds.</li> <li>Site utilisation surveys must be undertaken for each relevant season over a minimum two years (up to 8 survey events). Each site utilisation survey must be of an appropriate duration and spatial coverage (including taking into consideration the potential turbine layout and visibility) to adequately evaluate site utilisation.</li> </ul>	<ul> <li>A response to the RFI is provided in Section 3.3 of the Preliminary Documentation report.</li> <li>The design and outcomes of pre-commissioning site utilisation surveys is discussed in the following locations: <ul> <li>Attachment B1 (Assessment of Matters of National Environmental Significance).</li> <li>Appendix A (Bird and Bat Utilisation Assessment) of Attachment G (Preliminary Bird and Bat Adaptive Management Plan).</li> </ul> </li> </ul>



Information Required		Relevant Location(s)
	At a minimum, each site utilisation survey must record the relevant information specified in 'Species characteristics' of the 'Desktop Assessment' requirements for each relevant species.	
3. Impac	t Assessment	
3.1 Liste	d threatened species and communities impact assessment	
3.1.1	An assessment of the likely impacts associated with the vegetation clearance, construction, operational, maintenance and (if relevant) decommissioning components of the project. Update all impact levels based on habitat information referred to above.	<ul> <li>A response to the RFI is provided in Section 4.1 of the Preliminary Documentation report.</li> <li>Potential impacts associated with the Project are discussed in Section 8 of Attachment B4 (Assessment of Matters of National Environmental Significance).</li> <li>MNES-specific impacts are identified in Section 8 of Attachment B4 (Assessment of Matters of National Environmental Significance) as well as in the significant impact assessment provided in Appendix E (Detailed Habitat Assessments and Significant Impact Assessments) of Attachment B4 (Assessment of Matters of National Environmental Significance).</li> </ul>
3.1.2	Include the direct and indirect loss and/or disturbance of MNES individuals and habitat as a result of the proposed action. This must include the quality of the habitat impacted and quantification of the individuals and habitat area (in hectares) to be impacted.	<ul> <li>A response to the RFI is provided in Section 4.1 of the Preliminary Documentation report.</li> <li>Discussion of fragmentation impacts to koala and greater glider are provided in Appendix E (Detailed Habitat Assessments and Significant Impact Assessments) of Attachment B4 (Assessment of Matters of National Environmental Significance).</li> <li>Direct and indirect loss and/or disturbance to MNES individuals and habitat is provided in Section 8 of Attachment B4 (Assessment of Matters of National Environmental Significance).</li> <li>Potential habitat which may be impacted by the Project has been quantified for each of the relevant MNES and is provided in Appendix E (Detailed Habitat Assessments and Significant Impact Assessments) of Attachment B4 (Assessments of National Environmental Significant Impact Assessments) of Attachment B4 (Assessments of National Environmental Significant Impact Assessments) of Attachment B4 (Assessments of the relevant MNES and is provided in Appendix E (Detailed Habitat Assessments and Significant Impact Assessments) of Attachment B4 (Assessment of Matters of National Environmental Significant Impact Assessments) of Attachment B4 (Assessment of Matters of National Environmental Significant Impact Assessments) of Attachment B4 (Assessment of Matters of National Environmental Significant).</li> </ul>



Informa	tion Required	Relevant Location(s)	
3.1.3	An assessment of the impacts of habitat fragmentation in the proposed action area and surrounding areas, including consideration of species' movement patterns.	<ul> <li>A response to the RFI is provided in Section 4.1 of the Preliminary Documentation report.</li> <li>The potential impact of habitat fragmentation is discussed in Section 8 of Attachment B4 (Assessment of Matters of National Environmental Significance).</li> <li>The potential impacts of habitat fragmentation is discussed in the context of each relevant MNES in Appendix E (Detailed Habitat Assessments and Significant Impact Assessments) of Attachment B4 (Assessment of Matters of National Environmental Significant Impact Significance).</li> <li>Section 4 of Attachment F (Preliminary Vegetation Management Plan) updated to include fragmentation as potential impact.</li> </ul>	
3.1.4	An assessment of the likely duration of impacts to MNES as a result of the proposed action.	<ul> <li>A response to the RFI is provided in Section 4.1 of the Preliminary Documentation report.</li> <li>An assessment of the likely duration of impacts to MNES is provided in Section 8 of Attachment B4 (Assessment of Matters of National Environmental Significance).</li> </ul>	
3.1.5	A discussion of whether the impacts are likely to be repeated, for example as part of maintenance.	<ul> <li>A response to the RFI is provided in Section 4.1 of the Preliminary Documentation report.</li> <li>A discussion of potential impacts is provided in Section 8 of Attachment B4 (Assessment of Matters of National Environmental Significance).</li> </ul>	
3.1.6	A discussion of whether any impacts are likely to be unknown, unpredictable or irreversible.	<ul> <li>A response to the RFI is provided in Section 4.1 of the Preliminary Documentation report.</li> <li>A discussion of potential impacts is provided in Section 8 of Attachment B4 (Assessment of Matters of National Environmental Significance).</li> </ul>	
3.1.7	<ul> <li>Justification, with supporting evidence, how the proposed action will not be inconsistent with:</li> <li>Australia's obligations under the Biodiversity Convention, the Convention on Conservation of Nature in the South Pacific (Apia Convention), and the Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES); and</li> <li>a recovery plan or threat abatement plan.</li> </ul>	<ul> <li>A response to the RFI is provided in Section 4.1 of the Preliminary Documentation report.</li> <li>Discussion provided in Attachment F (Preliminary Vegetation Management Plan) and updates provided in Table 3.4.</li> </ul>	



Informa	tion Required	Relevant Location(s)
3.2 Spec	ific threatened species information required for impact assessment	
Collared	Delma ( <i>Delma torquata</i> ) – Vulnerable	
3.2.1	Update your impact assessment based on the revised habitat assessment above.	<ul> <li>A response to the RFI is provided in Section 4.2.1 of the Preliminary Documentation report.</li> <li>The updated impact assessment is provided in Table 2.4 of Appendix E (Detailed Habitat Assessments and Significant Impact Assessments) of Attachment B4 (Assessment of Matters of National Environmental Significance).</li> <li>Impact assessment updated in Section 2.2.1 Appendix E (Detailed Habitat Assessments and Significant Impact Assessments) of Attachment B4 (Assessments of Matters of National Environmental Significance).</li> </ul>
Cycas m	egacarpa – Endangered	
3.2.2	Update the development class and number of <i>Cycas megacarpa</i> individuals in each development class within and adjacent to the project site as per James <i>et al.</i> 2018.	<ul> <li>A response to the RFI is provided in Section 4.2.2 of the Preliminary Documentation report.</li> <li>The number of individuals in each development class from James et al. (2018) and across the Study Area is provided in Table 4.5 of the Preliminary Documentation report.</li> </ul>
3.2.3	Include the total number of individual plants and the total area of habitat (ha) impacted by the project footprint.	<ul> <li>A response to the RFI is provided in Section 4.2.2 of the Preliminary Documentation report.</li> <li>The extent of habitat is provided in Table 4.6 of the Preliminary Documentation report and Table 1.1 of Appendix E (Detailed Habitat Assessments and Significant Impact Assessments) of Attachment B4 (Assessment of Matters of National Environmental Significance).</li> <li>Further detailed information on the Project's potential impact on the species is provided in Appendix E (Detailed Habitat Assessments and Significant Impact Assessments) of Attachment B4 (Assessment of Matters of National Environmental Significance), and Attachment B4 (Assessment of Matters of National Environmental Significance), and Attachment E (Preliminary Cycas megacarpa Species Management Plan).</li> <li>An estimate of the upper limit of individuals is provided in Table 4.7 of the Preliminary Documentation report.</li> </ul>



Informat	tion Required	Relevant Location(s)
		<ul> <li>Mapping depicting record locations is provided as Figure 6.2 of Attachment B1 (Assessment of Matters of National Environmental Significance).</li> <li>Mapping in JPEG format is provided in Attachment L.</li> </ul>
Greater	Glider ( <i>Petauroides volans</i> ) – Vulnerable	
3.2.4	Include the updated total area of impact (in hectares) of Greater Glider habitat, including breeding and foraging habitat.	<ul> <li>A response to the RFI is provided in Section 4.2.3 of the Preliminary Documentation report.</li> <li>The updated impact areas are provided in Table 2.14 of Appendix E (Detailed Habitat Assessments and Significant Impact Assessments) of Attachment B4 (Assessment of Matters of National Environmental Significance).</li> </ul>
Koala (P	hascolarctos cinereus) (combined populations of Qld, NSW and the ACT) – En	dangered
3.2.5	Reconsider the Koala impact assessment in consultation with the updated Recovery Plan and Conservation Advice.	<ul> <li>A response to the RFI is provided in Section 4.2.4 of the Preliminary Documentation report.</li> <li>The updated impact assessment is provided in Table 1.14 of Appendix E (Detailed Habitat Assessments and Significant Impact Assessments) of Attachment B4 (Assessment of Matters of National Environmental Significance).</li> <li>Koala has now been addressed as Endangered throughout:         <ul> <li>Attachment B1–4 (Assessment of Matters of National Environmental Significance).</li> <li>Appendix E (Detailed Habitat Assessments and Significant Impact Assessments) of Attachment B4 (Assessment of Matters of National Environmental Significance).</li> <li>Appendix E (Detailed Habitat Assessments and Significant Impact Assessments) of Attachment B4 (Assessment of Matters of National Environmental Significance).</li> <li>Preliminary Documentation report.</li> </ul> </li> </ul>
Norther	n Quoll ( <i>Dasyurus hallucatus</i> ) – Endangered	
3.2.6	Update your impact assessment based on the revised habitat assessment above. Include all foraging, breeding and dispersal habitat as part of your impact assessment.	<ul> <li>A response to the RFI is provided in Section 4.2.5 of the Preliminary Documentation report.</li> <li>The updated impact assessment is provided in Table 1.12 of Appendix E (Detailed Habitat Assessments and Significant Impact Assessments) of Attachment B4 (Assessment of Matters of National Environmental Significance).</li> </ul>



Informa	tion Required	Relevant Location(s)
		• Discussion of cane toad impacts to northern quoll is discussed in Section 1.2.1 of Appendix E (Detailed Habitat Assessments and Significant Impact Assessments) of Attachment B4 (Assessment of Matters of National Environmental Significance) and the Preliminary Documentation report.
Squatte	r Pigeon (Southern) ( <i>Geophaps scripta scripta</i> ) – Vulnerable	
3.2.7	Update your impact assessment based on the revised habitat assessment above.	• A response to the RFI is provided in Section 4.2.6 of the Preliminary Documentation report.
		• The updated impact assessment is provided in Table 2.8 of Appendix E (Detailed Habitat Assessments and Significant Impact Assessments) of Attachment B4 (Assessment of Matters of National Environmental Significance).
		• A discussion on progressive rehabilitation and squatter pigeon (southern) has been provided in Section 9.4.1.1 of Attachment B4 (Assessment of Matters of National Environmental Significance).
		• Updated habitat mapping is provided in Figure 7.13 of Attachment B3 (Assessment of Matters of National Environmental Significance).
White-t	hroated Needletail ( <i>Hirundapus caudacutus</i> ) – Vulnerable	
3.2.8	Update your impact assessment based on the revised habitat assessment above.	• A response to the RFI is provided in Section 4.2.7 of the Preliminary Documentation report.
		• The updated impact assessment is provided in Table 2.12 and Table 2.13 of Appendix E (Detailed Habitat Assessments and Significant Impact Assessments) of Attachment B4 (Assessment of Matters of National Environmental Significance).
3.3 Mig	ratory species impact assessment	·
3.3.1	<ul> <li>Justify, with supporting evidence, how the proposed action will not be inconsistent with Australia's obligations under:</li> <li>the Bonn Convention;</li> </ul>	• A response to the RFI is provided in Section 4.3 of the Preliminary Documentation report.
	China-Australia Migratory Bird Agreement;	
	Japan-Australia Migratory Bird Agreement;	
	<ul> <li>International Agreement – Republic of Korea-Australia Migratory Bird Agreement; and</li> </ul>	



Informa	tion Required	Relevant Location(s)
	• any international agreement approved under subsection 209(4) of the EPBC Act.	
3.4 Spec	cific migratory species habitat assessment information required	
White-th	nroated Needletail (Hirundapus caudacutus) – Migratory	
3.4.1	The total population of this species has declined to approximately 41,000 birds (Garnett and Baker 2021). The department notes that an ecologically significant proportion of the population was recorded in the study area and that the site represents important habitat for this species. Provide an updated impact assessment in light of the number of birds detected on site.	<ul> <li>A response to the RFI is provided in Section 4.4.1 of the Preliminary Documentation report.</li> <li>The updated impact assessment is provided in the following locations:         <ul> <li>Appendix E (Detailed Habitat Assessments and Significant Impact Assessments) of Attachment B4 (Assessment of Matters of National Environmental Significance).</li> <li>Attachment G (Preliminary Bird and Bat Adaptive Management Plan).</li> </ul> </li> </ul>
3.5 Colli	ision risk assessment for listed threatened and migratory bird and bat species	
3.5.1	<ul> <li>An assessment of the potential impact pathways on each relevant species (based on the desktop assessment and site utilisation surveys) including, but not limited to:</li> <li>direct mortality from turbine collision and barotrauma; and</li> <li>potential changes to site utilisation during construction and operation of the proposed action.</li> </ul>	<ul> <li>A response to the RFI is provided in Section 4.5 of the Preliminary Documentation report.</li> <li>The risk assessment is provided in Appendix A (Bird and Bat Utilisation Assessment) of Attachment G (Preliminary Bird and Bat Adaptive Management Plan).</li> <li>Collision risk modelling is provided in Appendix B (Collision Risk Modelling) of Attachment G (Preliminary Bird and Bat Adaptive Management Plan).</li> <li>Impact assessments are provided in Appendix E (Detailed Habitat Assessments and Significant Impact Assessments) of Attachment B4 (Assessment of Matters of National Environmental Significance).</li> </ul>
3.5.2	<ul> <li>Identification of potential impacts to each relevant species from direct mortality, including but not limited to:</li> <li>analysis and mapping of suitable habitat, territories and activity/utilisation patterns/rates ('heat maps') in the project site and its surrounds.</li> </ul>	<ul> <li>A response to the RFI is provided in Section 4.5 of the Preliminary Documentation report.</li> <li>Bird and bat utilisation is discussed in Attachment G (Preliminary Bird and Bat Adaptive Management Plan).</li> <li>Impact assessments are provided in Appendix E (Detailed Habitat Assessments and Significant Impact Assessments) of Attachment B4 (Assessment of Matters of National Environmental Significance).</li> </ul>



Informa	tion Required	Relevant Location(s)
3.5.3	<ul> <li>Mathematical Collision Risk Modelling (CRM), which must:</li> <li>incorporate a project site-wide assessment to identify high risk turbines and to provide a mortality estimate for relevant species;</li> <li>incorporate baseline data collected during the minimum 24 months of site utilisation surveys (see Section 2 above);</li> <li>incorporate the recommendations of a model peer review (the peer review must be included as an appendix to the Preliminary Documentation); and</li> <li>include a literature review, justification of the choice of the model used, and a statement of all assumptions and uncertainties.</li> </ul>	<ul> <li>A response to the RFI is provided in Section 4.5 of the Preliminary Documentation report.</li> <li>Mathematical collision risk modelling is provided in Appendix B (Collision Risk Modelling) of Attachment G (Preliminary Bird and Bat Adaptive Management Plan).</li> </ul>
3.5.4	The Preliminary Documentation must clearly demonstrate how relevant departmental policies and guidelines, and the SPRAT Database have been used to assess the potential impacts of direct mortality from turbine collision and barotrauma, and potential changes to site utilisation during construction and operation of the proposed action on relevant listed threatened and migratory bird and bat species. The preliminary documentation must include a map for each relevant species which identifies area/s in the project site and its surrounds which have been determined as 'high risk' based on the outputs of the CRM. <b>Note:</b> The department notes the above requirements focus on direct mortality. Potential impacts as a result of changes to site utilisation may only become evident after the construction stage and during the operation stage. Therefore, ongoing BACI monitoring (through the implementation of an approved BBMP) is required to inform adaptive avoidance, mitigation and management measures in relation to potential changes in site utilisation (see Appendix C below).	<ul> <li>A response to the RFI is provided in Section 4.5 of the Preliminary Documentation report.</li> <li>Further detail regarding bird and bat utilisation is discussed in Attachment G (Preliminary Bird and Bat Adaptive Management Plan).</li> </ul>
4. Avoid	lance, Mitigation and Management Measures	
4.1.1	A detailed summary of measures proposed to be undertaken by the proponent to avoid, mitigate and manage relevant impacts of the proposed action on relevant MNES.	<ul> <li>A response to the RFI is provided in Section 5.0 of the Preliminary Documentation report.</li> <li>The minimisation of impacts to MNES through redesign of the Project is demonstrated in Table 5.2 of the Preliminary Documentation report.</li> </ul>



Informat	ion Required	Relevant Location(s)
		<ul> <li>General and species-specific mitigation measures, as well as further detail on avoidance, minimisation, mitigation, management and rehabilitation are provided in Section 9 of Attachment B4 (Assessment of Matters of National Environmental Significance).</li> <li>To demonstrate the nature and extent of the Project changes, a comparison of the original (referral) and current Development Corridor is shown on Figure 9.1 of Attachment B4 (Assessment of Matters of National Environmental Significance).</li> <li>Mitigation and management measures relevant to MNES are captured in the following management plans which have been submitted as part of the Preliminary Documentation assessment:         <ul> <li>Attachment D (Preliminary Construction Environmental Management Plan).</li> <li>Attachment F (Preliminary Vegetation Management Plan).</li> <li>Attachment G (Preliminary Bird and Bat Adaptive Management Plan).</li> <li>Attachment J (Preliminary Erosion and Sediment Control Plan).</li> <li>Attachment J (Preliminary Cycas megacarpa Translocation Management Plan).</li> <li>Attachment K (Preliminary Offset Management Strategy).</li> </ul> </li> </ul>
4.1.2	The proposed measures must be based on best available practices, appropriate standards, evidence of success for other similar actions and supported by published scientific evidence.	• A response to the RFI is provided in Section 5.0 of the Preliminary Documentation report.
4.1.3	<ul> <li>All proposed measures for MNES must be drafted to meet the 'S.M.A.R.T' principle:</li> <li>S – Specific (what and how)</li> <li>M – Measurable (baseline information, number/value, auditable)</li> <li>A – Achievable (timeframe, money, personnel)</li> <li>R – Relevant (conservation advices, recovery plans, threat abatement plans)</li> <li>T – Time-bound (specific timeframe to complete)</li> </ul>	<ul> <li>A response to the RFI is provided in Section 5.0 of the Preliminary Documentation report.</li> <li>Avoidance and mitigation measures are identified in Section 9 of Attachment B4 (Assessment of Matters of National Environmental Significance).</li> <li>Certainty in how risk will be managed and monitored is provided through the Project's management plans including:         <ul> <li>Attachment D (Construction Environmental Management Plan).</li> <li>Attachment E (Preliminary Cycas megacarpa Species Management Plan).</li> </ul> </li> </ul>



Informa	tion Required	Relevant Location(s)
		<ul> <li>Attachment F (Preliminary Vegetation Management Plan).</li> <li>Attachment G (Preliminary Bird and Bat Adaptive Management Plan).</li> <li>Attachment J (Preliminary <i>Cycas megacarpa</i> Translocation Management Plan).</li> </ul>
4.1.4	Include the plans specified above (in approved or draft format) as appendices to the preliminary documentation.	<ul> <li>A response to the RFI is provided in Section 5.0 of the Preliminary Documentation report.</li> <li>All plans specified above have been provided as Attachments to this Preliminary Documentation:         <ul> <li>Attachment C (Preliminary Health, Safety and Environment Management Plan).</li> <li>Attachment D (Preliminary Construction Environmental Management Plan).</li> <li>Attachment E (Preliminary Construction Environmental Management Plan).</li> <li>Attachment F (Preliminary Vegetation Management Plan).</li> <li>Attachment G (Preliminary Bird and Bat Adaptive Management Plan.</li> <li>Attachment H (Preliminary Erosion and Sediment Control Plan).</li> <li>Attachment I (Preliminary Decommissioning Management Plan).</li> <li>Attachment J (Preliminary Cycas megacarpa Translocation Management Plan).</li> <li>Attachment J (Preliminary Cycas megacarpa Translocation Management Plan).</li> <li>Attachment J (Preliminary Offset Management Strategy).</li> </ul> </li> </ul>
4.1.5	Details of specific and measurable environmental outcomes to be achieved for relevant MNES. All commitments must be drafted using committal language (e.g., 'will' and 'must') when describing the proposed measures.	<ul> <li>A response to the RFI is provided in Section 5.0 of the Preliminary Documentation report.</li> <li>Proposed avoidance, minimisation, mitigation and management measures and monitoring requirements are outlined in the following documents:         <ul> <li>Section 9 of Attachment B4 (Assessment of Matters of National Environmental Significance).</li> <li>Attachment D (Preliminary Construction Environmental Management Plan).</li> <li>Attachment E (Preliminary Vegetation Management Plan).</li> </ul> </li> </ul>



Informa	tion Required	Relevant Location(s)
		<ul> <li>Attachment G (Preliminary Bird and Bat Adaptive Management Plan).</li> <li>Attachment J (Preliminary <i>Cycas megacarpa</i> Translocation Management Plan).</li> </ul>
4.1.6	<ul> <li>Details of the proposed measures to be undertaken to avoid, mitigate and manage the relevant impacts of the proposed action, including those required through other Commonwealth, State and local government approvals. Including, but not limited to:</li> <li>A pre-clearance survey methodology, and its predicted effectiveness, for commitments to avoid (with appropriate buffers) listed threatened flora species and habitat for listed fauna species (including those identified in Section 2 above) during the construction stage.</li> <li>Use of a qualified fauna spotter-catcher.</li> <li>Specific procedures to minimise and manage potential impacts on the Cossinia, Quassia, <i>Decaspermum</i> stuckoilium and other listed and migratory species if found on site during construction and operation.</li> <li>Information on the timing, frequency and duration of the proposed avoidance, mitigation, management and monitoring measures, and corrective actions to be implemented.</li> </ul>	<ul> <li>A response to the RFI is provided in Section 5.0 of the Preliminary Documentation report.</li> <li>General and species-specific mitigation measures are provided in Section 9 of Attachment B4 (Assessment of Matters of National Environmental Significance).</li> <li>The pre-clearance survey methodology is detailed in Section 5.4 of Attachment F (Preliminary Vegetation Management Plan) and Section 9 of Attachment B4 (Assessment of Matters of National Environmental Significance).</li> <li>Commitments to avoid listed threatened flora species and habitat for threatened fauna are detailed in Attachment E (Preliminary Cycas megacarpa Species Management Plan) and Section 9 of Attachment B4 (Assessment of Matters of National Environmental Significance).</li> <li>A response to the RFI is provided in Section 5.0 of the Preliminary Documentation report.</li> <li>A voidance and mitigation measures are identified in Section 9 of Attachment B4 (Assessment of Matters of National Environmental Significance).</li> <li>Certainty in how risk will be managed and monitored is provided through the Project's management plans including:         <ul> <li>Attachment E (Preliminary <i>Cycas megacarpa</i> Species Management Plan).</li> <li>Attachment F (Preliminary Vegetation Management Plan).</li> <li>Attachment F (Preliminary <i>Cycas megacarpa</i> Translocation Management Plan).</li> <li>Attachment J (Preliminary Bird and Bat Adaptive Management Plan).</li> <li>Attachment J (Preliminary <i>Cycas megacarpa</i> Translocation Management Plan).</li> </ul> </li> </ul>
4.1.8	An assessment of the expected or predicted effectiveness of the proposed measures.	• A response to the RFI is provided in Section 5.0 of the Preliminary Documentation report.
4.1.9	Any statutory or policy basis for the proposed measures, including reference to the SPRAT Database and relevant approved conservation advice, recovery plan or threat abatement plan, and a	• A response to the RFI is provided in Section 5.0 of the Preliminary Documentation report.



Informat	ion Required	Relevant Location(s)
	discussion on how the proposed measures are not inconsistent with relevant plans.	<ul> <li>Avoidance and mitigation measures are identified in Section 9 of Attachment B4 (Assessment of Matters of National Environmental Significance) and management plans (Attachments C to K).</li> <li>Table 5.2 of the Preliminary Documentation report and Table 9.4 of Attachment B4 (Assessment of Matters of National Environmental Significance) discuss statutory or policy basis for mitigation and management</li> </ul>
4.1.10	Details of ongoing management, including monitoring programs to support an adaptive management approach, that validate the effectiveness of the proposed measures and overall demonstrate that environmental outcomes will be achieved.	<ul> <li>A response to the RFI is provided in Section 5.0 of the Preliminary Documentation report.</li> <li>Proposed avoidance, minimisation, mitigation and management measures and monitoring requirements are outlined in the following documents:         <ul> <li>Section 9 of Attachment B4 (Assessment of Matters of National Environmental Significance).</li> <li>Attachment D (Preliminary Construction Environmental Management Plan).</li> <li>Attachment E (Preliminary Vegetation Management Plan).</li> <li>Attachment F (Preliminary Vegetation Management Plan).</li> <li>Attachment G (Preliminary Bird and Bat Adaptive Management Plan).</li> <li>Attachment J (Preliminary <i>Cycas megacarpa</i> Translocation Management Plan).</li> </ul> </li> </ul>
4.1.11	Details of tangible, on-ground corrective actions that will be implemented in the event the monitoring programs indicate that the environmental outcomes have not or will not be achieved.	<ul> <li>A response to the RFI is provided in Section 5.0 of the Preliminary Documentation report.</li> <li>Proposed avoidance, minimisation, mitigation and management measures and monitoring requirements are outlined in the following documents:         <ul> <li>Attachment E (Preliminary <i>Cycas megacarpa</i> Species Management Plan).</li> <li>Attachment F (Preliminary Vegetation Management Plan).</li> <li>Attachment G (Preliminary Bird and Bat Adaptive Management Plan).</li> <li>Attachment J (Preliminary <i>Cycas megacarpa</i> Translocation Management Plan).</li> <li>Notification periods updated in Section 6.2 and Section 6.3 of Attachment E (Preliminary Cycas megacarpa Species Management Plan).</li> </ul> </li> </ul>



Informa	tion Required	Relevant Location(s)
4.1.12	Details of any measures proposed to be undertaken by Queensland and local governments, including the name of the agency responsible for approving each measure.	• A response to the RFI is provided in Section 5.0 of the Preliminary Documentation report.
4.2 Spec	ific threatened species avoidance, mitigation and management information i	required
Cycas m	egacarpa – Endangered	
4.2.1	Describe the number, location and proportion of individuals of the <i>Cycas megacarpa</i> population on site that will be avoided.	<ul> <li>A response to the RFI is provided in Section 5.1.1 of the Preliminary Documentation report.</li> <li>Detailed discussions of the population of Cycas megacarpa are provided in the following locations:         <ul> <li>Attachment B1 (Assessment of Matters of National Environmental Significance).</li> <li>Attachment E (Preliminary <i>Cycas megacarpa</i> Species Management Plan).</li> </ul> </li> <li>A summary of the avoidance of individuals is provided in Table 5.3 in the Preliminary Documentation report.</li> <li>Section 6.2 of Attachment E (Preliminary Cycas megacarpa Species Management Plan) updated in response to RFI comment.</li> </ul>
4.2.2	Include full justification on the avoidance measures that will be undertaken with respect to the <i>Cycas megacarpa</i> individuals.	<ul> <li>A response to the RFI is provided in Section 5.1.1 of the Preliminary Documentation report.</li> <li>Details on avoidance measures for the Project are provided in the following locations:         <ul> <li>Attachment B4 (Assessment of Matters of National Environmental Significance).</li> <li>Attachment E (Preliminary Cycas megacarpa Species Management Plan).</li> <li>Attachment K (Preliminary Offset Management Strategy).</li> </ul> </li> </ul>



Informat	ion Required	Relevant Location(s)
Greater Glider ( <i>Petauroides volans</i> ) – Vulnerable		
4.2.3	Describe specific methods that will be implemented to avoid habitat fragmentation for this species.	<ul> <li>A response to the RFI is provided in Section 5.1.2 of the Preliminary Documentation report.</li> <li>Mitigation measures to minimise the impact of habitat fragmentation are provided in Section 9 of Attachment B4 (Assessment of Matters of National Environmental Significance).</li> <li>A glide pole monitoring program discussed in Section 2.2.6.7 of Appendix E</li> </ul>
		<ul> <li>(Detailed Habitat Assessments and Significant Impact Assessments) of Attachment B4 (Assessment of Matters of National Environmental Significance).</li> <li>Supplementary offsets are discussed in Section 2.2.6.7 of Appendix E (Detailed Habitat Assessments and Significant Impact Assessments) of Attachment B4 (Assessment of Matters of National Environmental Significance).</li> </ul>
		<ul> <li>Supplementary offsets areas are provided in Figure 9.2 of Appendix E (Detailed Habitat Assessments and Significant Impact Assessments) of Attachment B4 (Assessment of Matters of National Environmental Significance).</li> </ul>
		• Mapping showing mitigation measures for greater glider habitat fragmentation is provided as Figure 9.2 of Attachment B4 (Assessment of Matters of National Environmental Significance).
Norther	n Quoll ( <i>Dasyurus hallucatus</i> ) – Endangered	
4.2.4	Describe methods that will be used to avoid Northern Quoll habitation of construction associated debris and equipment.	• A response to the RFI is provided in Section 5.1.3 of the Preliminary Documentation report.
White-th	nroated Needletail ( <i>Hirundapus caudacutus</i> ) – Vulnerable	
4.2.5	The referral notes that White-throated Needletail are at very high risk of turbine collision risk from impacts for the project. The proponent notes that given the implementation of the BBAMP, it is considered unlikely that the Project will lead to a long-term decrease in the population. Provide a detailed discussion on methods that will be used to avoid collision strike for this species.	<ul> <li>A response to the RFI is provided in Section 5.1.4 of the Preliminary Documentation report.</li> <li>Collision risk modelling for the species is provided in Appendix B of Attachment G (Preliminary Bird and Bat Adaptive Management Plan).</li> </ul>
		<ul> <li>A monitoring and adaptive management framework is provided in Attachment G (Preliminary Bird and Bat Adaptive Management Plan).</li> </ul>



Informa	tion Required	Relevant Location(s)
4.3 Tran	slocation Plan for Cycas megacarpa	
4.3.1	The Preliminary Documentation must include a discussion of the proposed avoidance and mitigation measures in the context of the department's <u>Translocation of Listed Threatened Species – Assessment under Chapter 4</u> <u>of the EPBC Act Policy Statement (2013)</u> . The policy statement can be found at: <u>www.environment.gov.au/system/files/resources/c0463a3b-</u> <u>cf06-44a7-a7c6-76b488321561/files/epbc-act-policy-translocation.pdf</u> .	<ul> <li>A response to the RFI is provided in Section 5.2 of the Preliminary Documentation report.</li> <li>A discussion of the proposed avoidance and mitigation measures are provided in the following documents:         <ul> <li>Attachment B4 (Assessment of Matters of National Environmental Significance).</li> <li>Attachment E (Preliminary Cycas megacarpa Species Management Plan).</li> </ul> </li> </ul>
4.3.2	The preliminary translocation plan for <i>Cycas megacarpa</i> must be attached to the Preliminary Documentation as an appendix.	<ul> <li>A response to the RFI is provided in Section 5.2 of the Preliminary Documentation report.</li> <li>The Preliminary Translocation Management Plan for Cycas megacarpa has been provided as Attachment J.</li> </ul>
4.3.3	Estimate the number of individuals to be translocated, noting their source location from the project footprint.	<ul> <li>A response to the RFI is provided in Section 5.2 of the Preliminary Documentation report.</li> <li>Details relating to the source location within the Disturbance Footprint are provided in Section 4.1 of Attachment J (Preliminary <i>Cycas megacarpa</i> Translocation Management Plan).</li> </ul>
4.3.4	Identify the site/s for <i>Cycas megacarpa</i> translocation and provide justification for site selection.	<ul> <li>A response to the RFI is provided in Section 5.2 of the Preliminary Documentation report.</li> <li>The identified recipient sites are discussed in Attachment J (Preliminary Cycas megacarpa Translocation Management Plan).</li> <li>A discussion of the viability of the recipient sites is provided in Section 5 of Attachment J (Preliminary <i>Cycas megacarpa</i> Translocation Management Plan).</li> </ul>
4.3.5	<ul> <li>Describe the design of the translocation program, including timeframes for implementation. The design should include consideration of:</li> <li>the specific edaphic conditions and elevation range within which the species is known to occur;</li> <li>the population demographics and long-term viability of the population, including:</li> </ul>	<ul> <li>A response to the RFI is provided in Section 5.2 of the Preliminary Documentation report.</li> <li>The design of the translocation plan is detailed in Attachment J (Preliminary <i>Cycas megacarpa</i> Translocation Management Plan).</li> </ul>



Informat	ion Required	Relevant Location(s)
	<ul> <li>specific pollination mechanism of the species, and the potential to further fragment the species distribution by reducing cross-pollination between sub-populations;</li> <li>dioecy of the species, and how female and male plants will be distributed to maintain reproductive capacity of the translocated population; and</li> <li>genetic drift.</li> </ul>	
4.3.6	Provide strategies for <i>Cycas megacarpa</i> propagation, including seed sourcing, to cover individual mortality as a result of the proposed action both before and after translocation.	<ul> <li>A response to the RFI is provided in Section 5.2 of the Preliminary Documentation report.</li> <li>A detailed methodology for seed collection, propagation and planting is provided in Section 8 and Section 13.3.1 of Attachment J (Preliminary <i>Cycas megacarpa</i> Translocation Management Plan).</li> </ul>
4.3.7	Provide strategies to minimise fragmentation of the impacted and translocated populations, with consideration of the criteria for viable populations of the species and that viable populations are required to ensure long-term survival of the species.	<ul> <li>A response to the RFI is provided in Section 5.2 of the Preliminary Documentation report.</li> <li>The design of the translocation plan is detailed in Attachment J (Preliminary <i>Cycas megacarpa</i> Translocation Management Plan).</li> </ul>
4.3.8	Provide contingency measures to cover for extreme environmental conditions such as prolonged drought and extreme bush fires, limited seed availability, low propagation success, and/or weed proliferation.	<ul> <li>A response to the RFI is provided in Section 5.2 of the Preliminary Documentation report.</li> <li>Contingency measures to protect translocated individuals from extreme weather conditions have been provided in Attachment J (Preliminary <i>Cycas megacarpa</i> Translocation Management Plan).</li> </ul>
4.3.9	Provide details of ongoing management of the translocated population/s, including monitoring programs, reporting requirements and corrective actions to support an adaptive management approach and determine the success of the program.	<ul> <li>A response to the RFI is provided in Section 5.2 of the Preliminary Documentation report.</li> <li>Details of ongoing management have been provided in Attachment J (Preliminary <i>Cycas megacarpa</i> Translocation Management Plan).</li> </ul>
4.3.10	Provide objectives of the translocation program, including success criteria and performance indicators, including details of any baseline data and proposed monitoring required to demonstrate progress towards achieving these objectives. Success should consider the long-term implications of translocation, including both survivorship and reproduction of translocated individuals.	<ul> <li>A response to the RFI is provided in Section 5.2 of the Preliminary Documentation report.</li> <li>Success criteria and performance indicators are described in Section 14.1 of Attachment J (Preliminary Cycas megacarpa Translocation Management Plan), while detailed monitoring requirements are identified in Section 11 of the plan.</li> </ul>



Informat	tion Required	Relevant Location(s)
4.3.11	Provide an assessment of the likely success of translocation of <i>Cycas megacarpa</i> . This should be supported by robust scientific evidence, including published literature, scientific reports, and monitoring reports from previous translocation programs for this species.	<ul> <li>A response to the RFI is provided in Section 5.2 of the Preliminary Documentation report.</li> <li>A detailed assessment of the likely success of the translocation program is provided in Section 14.1 of Attachment J (Preliminary Cycas megacarpa Translocation Management Plan).</li> </ul>
4.4 Spec	ific migratory species avoidance, mitigation and management information re-	quired
White-tl	nroated Needletail ( <i>Hirundapus caudacutus</i> ) – Migratory	
4.4.1	The referral notes that White-throated Needletail is at very high risk of turbine collision. The proponent notes that given the implementation of the BBAMP, it is considered unlikely that the proposed action will lead to a long-term decrease in the population. Detail specific methods employed to minimise the threat to the White-throated Needletail. <b>Note:</b> A nationally significant proportion of the population is 41 birds (0.1% of the population) and an internationally significant number is 410 birds (1% of the total population of 41 000 birds).	<ul> <li>A response to the RFI is provided in Section 5.3 of the Preliminary Documentation report.</li> <li>Collision risk modelling for the species is provided in Appendix B of Attachment G (Preliminary Bird and Bat Adaptive Management Plan).</li> <li>A monitoring and adaptive management framework is provided in Attachment G (Preliminary Bird and Bat Adaptive Management Plan).</li> </ul>
5. Rehab	ilitation Requirements	
5.1	Rehabilitation acceptance criteria, including for the restoration of habitat for relevant listed threatened species and communities.	<ul> <li>A response to the RFI is provided in Section 5.4 of the Preliminary Documentation report.</li> <li>A response to the RFI comments on rehabilitation criteria for areas that were previously threatened fauna habitat provided in Section 9.4 of Attachment B4 (Assessment of Matters of National Environmental Significance).</li> <li>Rehabilitation measures are identified in Attachment F (Preliminary Vegetation Management Plan).</li> </ul>
5.2	A summary of the procedures, including contingency measures, that will be undertaken to achieve the rehabilitation acceptance criteria.	<ul> <li>A response to the RFI is provided in Section 5.4 of the Preliminary Documentation report.</li> <li>A response to the RFI comments on rehabilitation criteria for areas that were previously threatened fauna habitat provided in Section 9.4 of Attachment B4 (Assessment of Matters of National Environmental Significance).</li> </ul>



Informat	ion Required	Relevant Location(s)
		<ul> <li>Procedures and contingency measures in relation to rehabilitation and the rehabilitation acceptance criteria are provided in Attachment F (Preliminary Vegetation Management Plan).</li> </ul>
5.3	A summary of a monitoring program to determine the success of rehabilitation activities implemented by the proponent.	<ul> <li>A response to the RFI is provided in Section 5.4 of the Preliminary Documentation report.</li> <li>The frequency of rehabilitation monitoring during construction and operation is identified in Attachment F (Preliminary Vegetation Management Plan).</li> </ul>
5.4	The details of any rehabilitation activities proposed to be undertaken as required by Commonwealth, State or Territory, and local government legislation. Attach relevant Commonwealth, State or Territory, and local government approvals and permits as supporting documents to the preliminary documentation.	<ul> <li>A response to the RFI is provided in Section 5.4 of the Preliminary Documentation report.</li> <li>Procedures pertaining to rehabilitation and restoration are provided in Attachment F (Preliminary Vegetation Management Plan).</li> </ul>
6. Offset	s	
6.1.1	An assessment of the likelihood of residual significant impacts occurring on relevant MNES, after avoidance, mitigation and management measures have been applied. Consider requirement to offset residual significant impacts resulting from turbine strike.	<ul> <li>A response to the RFI is provided in Section 5.5 of the Preliminary Documentation report.</li> <li>Significant impact assessments are provided in Appendix E (Detailed Habitat Assessments and Significant Impact Assessments) of Attachment B4 (Assessment of Matters of National Environmental Significance).</li> <li>A description of the potential requirement for offsetting impacts – should a trigger threshold resulting from turbine strike be exceeded – is provided in the Bird and Bat Adaptive Management Plan (Attachment G).</li> <li>Offsetting impacts is discussed in Section 7 of Attachment K (Preliminary Offset Management Strategy).</li> </ul>
6.1.2	A summary of the proposed environmental offset and key commitments to achieve a conservation gain for each protected matter.	<ul> <li>A response to the RFI is provided in Section 5.5 of the Preliminary Documentation report.</li> <li>The approach to offset delivery, being a proponent driven land-based offset, is detailed in the Preliminary Offset Management Strategy (Attachment K).</li> </ul>



Informa	tion Required	Relevant Location(s)
6.1.3	If an offset area has not been nominated, include a draft OMS as an appendix to the PD. The draft OMS must meet the information requirements set out in Appendix B.1.	<ul> <li>A response to the RFI is provided in Section 5.5 of the Preliminary Documentation report.</li> <li>Potential offset areas are identified in the Preliminary Offset Management Strategy (Attachment K).</li> </ul>
6.1.4	Where offset area/s have been nominated, include a draft OAMP as an appendix to the PD. The draft OAMP must meet the information requirements set out in Appendix B.2, and must be prepared by a suitably qualified ecologist and in accordance with the department's Environmental Management Plan Guidelines (2014), available at: <a href="https://www.environment.gov.au/epbc/publications/environmental-management-plan-guidelines">www.environment.gov.au/epbc/publications/environmental-management-plan-guidelines</a> .	<ul> <li>A response to the RFI is provided in Section 5.5 of the Preliminary Documentation report (i.e., not applicable).</li> </ul>
7. Ecolo	gically Sustainable Development (ESD)	
7.1	<ul> <li>A description of how the proposed action meets the principles of ESD, as defined in section 3A of the EPBC Act. The following principles are principles of ecologically sustainable development:</li> <li>decision making processes should effectively integrate both long term and short term economic, environmental, social and equitable considerations;</li> <li>if there are threats of serious or irreversible environmental damage, lack of full scientific certainty should not be used as a reason for postponing measures to prevent environmental degradation;</li> <li>the principle of inter-generational equity—that the present generation should ensure that the health, diversity and productivity of the environment is maintained or enhanced for the benefit of future generations;</li> <li>the conservation of biological diversity and ecological integrity should be a fundamental consideration in decision making;</li> <li>improved valuation, pricing and incentive mechanisms should be promoted.</li> </ul>	<ul> <li>A response to the RFI is provided in Section 5.6 of the Preliminary Documentation report.</li> <li>Neoen's Sustainability Framework is provided as Attachment M.</li> </ul>



Informa	ation Required	Relevant Location(s)	
8. Econ	omic and Social Matters		
8.1	An analysis of the economic and social impacts of the action, both positive and negative.	• A response to the RFI is provided in Section 5.7 of the Preliminary Documentation report.	
8.2	Details of any public consultation activities undertaken and their outcomes.	• A response to the RFI is provided in Section 5.7 of the Preliminary Documentation report.	
8.3	<ul> <li>Details of any consultation with Indigenous stakeholders.</li> <li>Indigenous engagement</li> <li>Identify existing or potential native title rights and interests, including any areas and objects that are of particular significance to Indigenous peoples and communities, possibly impacted by the proposed action and the potential for managing those impacts.</li> <li>Describe any Indigenous consultation that has been undertaken, or will be undertaken, in relation to the proposed action and their outcomes.</li> <li>The department considers that best practice consultation, in accordance with the <u>Guidance for proponents on best practice Indigenous engagement for environmental assessments under the EPBC Act</u> (2016) includes:</li> <li>identifying and acknowledging all relevant affected Indigenous peoples and communities;</li> <li>committing to early engagement;</li> <li>building trust through early and ongoing communication for the duration of the project, including approvals, implementation and future management;</li> <li>setting appropriate timeframes for consultation; and</li> <li>demonstrating cultural awareness.</li> <li>Describe any state requirements for approval or conditions that apply, or that the proponent reasonably believes are likely to apply, to the proposed action with regards to Indigenous peoples and communities.</li> </ul>	A response to the RFI is provided in Section 5.7 of the Preliminary Documentation report.	
8.4	Projected economic costs and benefits of the project, including the basis for their estimate through cost/benefit analysis or similar studies.	• A response to the RFI is provided in Section 5.7 of the Preliminary Documentation report.	



Informa	tion Required	Relevant Location(s)
8.5	Employment opportunities expected to be generated by the project (including construction and operational phases).	• A response to the RFI is provided in Section 5.7 of the Preliminary Documentation report.
9. Enviro	onmental Record of the Person Proposing to Take the Action	
Include details of any past or present proceedings under a Commonwealth, State or Territory law for the protection of the environment or the conservation and sustause of natural resources against:		erritory law for the protection of the environment or the conservation and sustainable
9.1	• the person proposing to take the action;	• A response to the RFI is provided in Section 5.8 of the Preliminary Documentation report.
9.2	<ul> <li>for an action for which a person has applied for a permit, the person making the application;</li> </ul>	• A response to the RFI is provided in Section 5.8 of the Preliminary Documentation report (i.e., not applicable).
9.3	• if the person is a body corporate—the history of its executive officers in relation to environmental matters; and	• A response to the RFI is provided in Section 5.8 of the Preliminary Documentation report (i.e., not applicable).
9.4	• if the person is a body corporate that is a subsidiary of another body or company (the parent body)—the history in relation to environmental matters of the parent body and its executive officers.	• A response to the RFI is provided in Section 5.8 of the Preliminary Documentation report (i.e., not applicable).

## Table A2 Preliminary Documentation Content, Style and Formatting Requirements

Informatio	on Required	Relevant Location(s)
A1. Content requirements		
A1.1	Be a stand-alone document containing sufficient information to avoid the need to search out previous or supplementary reports.	The Preliminary Documentation report provides sufficient detail in response to each RFI, cross-referencing relevant sections, tables or figures in supplementary reports where appropriate.
A1.2	Enable interested stakeholders and the Minister to easily understand the consequences of the project on matters of national environmental significance (MNES).	<ul> <li>Potential impacts on MNES are detailed in the following locations:         <ul> <li>Section 8 of Attachment B4 (Assessment of Matters of National Environmental Significance).</li> <li>Appendix E (Detailed Habitat Assessments and Significant Impact Assessments) of Attachment B4 (Assessment of Matters of National Impact</li> </ul> </li> </ul>
		<ul> <li>Appendix E (Detailed Habitat Assessments and Significant Impact Assessments) of Attachment B4 (Assessment of Matters of National Environmental Significance).</li> </ul>



Information Required		Relevant Location(s)	
		<ul> <li>Section 4 of Appendix A (Bird and Bat Utilisation Assessment) of Attachment G (Preliminary Bird and Bat Adaptive Management Plan).</li> </ul>	
A1.3	Be written so that any conclusions reached can be independently assessed. Include all key claims, findings, proposals and undertakings in the main document.	The Preliminary Documentation and associated Attachments has been written in a way that any conclusions reached can be independently assessed.	
A1.4	Refer to all relevant standards, policies and other guidance material published by the department. Any instances where published guidance is not followed must be justified. Where no Commonwealth standards exist, state government and industry standards may be useful.	All relevant standards, policies and other guidance material has been consulted where appropriate, and where such information is unavailable, other sources including state government materials has been used.	
A1.5	Include the names, roles and qualifications (where relevant) of all persons involved in preparing the preliminary documentation.t	The list of contributors has not been attached as an Appendix as it contains sensitive information not intended for public distribution. This information has been provided in the Preliminary Documentation package as: 'Ecological Data and List of Contributors'.	
A1.6	Include a copy of this request for information and a cross-reference table indicating where the information fulfilling this request is included in the preliminary documentation (e.g., Section 4.2.2 and Appendix A, Chapter 2.1).	Attachment A of the Preliminary Documentation provides this information.	
A1.7	<ul> <li>The preliminary documentation must state the following for all information provided:</li> <li>The source and date of the information;</li> <li>How the reliability of the information was tested;</li> <li>The uncertainties (if any) in the information;</li> <li>The guidelines, plans, and/or policies considered.</li> </ul>	Information used to develop conclusions within the Preliminary Documentation is based on desktop sources (including peer reviewed journal articles and Departmental documents) as well as data collected during extensive field surveys. All relevant documents have been appropriately referenced in the Preliminary Documentation and Attachments.	
A2. Forma	t and style requirements		
A2.1	Be in a suitable format to be published in hardcopy (A4 or A3 size, with maps and diagrams in A4 or A3 size and in colour) and published in electronic format (e.g., MSWord or PDF) on the internet.	All reporting, including figures, has been provided in A4 size and in PDF format.	



Information Required		Relevant Location(s)	
A2.2	Include detailed technical information, studies or investigations necessary to support the information in the stand-alone document as appendices.	All detailed technical information has been provided in the Attachments to the Preliminary Documentation.	
A2.3	Be objective, clear, succinct, avoid technical jargon and, where appropriate, be supported by maps, plans, diagrams, data or other descriptive detail.	The Preliminary Documentation and associated Attachments has been written in an appropriate way to address this RFI.	
A2.4	Reference all sources using the Harvard standard of referencing. Ensure that other supporting documents (e.g., academic studies, regulatory standards) are publicly accessible, with electronic links provided where possible.	Sources have been referenced using the Harvard standard via Mendeley referencing software, with full reference lists available at the end of each report body.	
A2.5	Redact the contact details of departmental officers.	No details of the departmental officers have been provided in the Preliminary Documentation or the Attachments.	
A2.6	Not contain any commercial in confidence markings. If the preliminary documentation contains sensitive information, please discuss this with the assessment officer.	This has been discussed with the assessment officer. The outcome being that two versions of the Attachments with sensitive information will be provided – one with all information suitable for DCCEEW assessment and an alternate version for public display with sensitive information redacted.	
A3. Ecolog	ical data provision		
A3.1	The preliminary documentation must include an appendix of occurrence records (both sightings and evidence of presence) for all listed threatened and migratory species identified during field surveys for the proposed action. This data may be used by the department to update the relevant species distribution models that underpin the publicly available Protected Matters Search Tool (PMST).	Data has not been attached as an Appendix as it contains sensitive information not intended for public distribution. Data has been provided in the Preliminary Documentation package as: 'Ecological Data and List of Contributors'.	
A3.2	The species occurrence records must be provided in accordance with the department's <u>Guidelines for biological survey and mapped</u> <u>data (2018)</u> using the species observation data template provided with this request for additional information. Sensitive ecological data must be identified and treated in accordance with the department's <u>Sensitive</u> <u>Ecological Data – Access and Management Policy V1.0</u> (2016) or subsequent revision.	Data has been provided in accordance with the relevant guidelines. Data is provided in the Preliminary Documentation package as: 'Ecological Data and List of Contributors'.	



Informatio	n Required	Relevant Location(s)	
B1. Minimu	B1. Minimum Requirements for a draft Offset Management Strategy		
B1.1	Specific details of the nature of the conservation gain to be achieved for relevant MNES, including the creation, restoration and revegetation of habitat in the proposed offset area/s.	<ul> <li>Specific details of the nature of the conservation gain are provided in Attachment K (Preliminary Offset Management Strategy).</li> </ul>	
B1.2	Details of the environmental offset/s (in hectares) to compensate for the residual significant impacts of the proposed action on relevant MNES.	<ul> <li>Details of the potential offset areas and their extents are provided in Attachment K (Preliminary Offset Management Strategy).</li> </ul>	
B1.3	Details of the potential offset area/s (including a map) to compensate for the residual significant impacts of the proposed action on relevant MNES.	<ul> <li>Details of the potential offset areas are discussed in Attachment K (Preliminary Offset Management Strategy).</li> </ul>	
B1.4	<ul> <li>The methodology, with justification and supporting evidence, used to inform the inputs of the Offsets Assessment Guide in relation to the project site for each relevant MNES, including:</li> <li>total area of habitat (in hectares); and</li> <li>habitat quality (e.g. using the Queensland Government <u>Guide to determining terrestrial habitat quality: A toolkit for assessing land based offsets under the Queensland Environmental Offsets Policy</u> [2020]).</li> </ul>	<ul> <li>The methodology used to inform the inputs of the Offsets Assessment Guide in relation to habitat area and quality is provided in Attachment K (Preliminary Offset Management Strategy).</li> </ul>	
B1.5	Details, with supporting evidence, of how the environmental offset/s meets the requirements of the department's EPBC Act Environmental Offsets Policy (2012) (Offsets Policy), available at: <a href="http://www.environment.gov.au/epbc/publications/epbc-act-environmental-offsets-policy">www.environment.gov.au/epbc/publications/epbc-act-environmental-offsets-policy</a> .	<ul> <li>A response to each of the policy requirements is provided in Attachment K (Preliminary Offset Management Strategy).</li> </ul>	
B1.6	<ul> <li>The methodology, with justification and supporting evidence, used to inform the inputs of the Offsets Assessment Guide in relation to each potential offset area/s for each relevant MNES, including:</li> <li>time over which loss is averted (max. 20 years);</li> <li>time until ecological benefit;</li> <li>risk of loss (%) without offset;</li> <li>risk of loss (%) with offset; and</li> <li>confidence in result (%).</li> </ul>	<ul> <li>The methodology used to inform the inputs of the Offsets Assessment Guide is provided in Attachment K (Preliminary Offset Management Strategy).</li> </ul>	

### Table A3 Information Requirements for EPBC Act Offset Proposals



Information Required		Relevant Location(s)	
B1.7	Evidence that the relevant MNES, and/or their habitat, can be present in the potential offset area/s.	The status of the relevant MNES in the potential offset areas is discussed in Attachment K (Preliminary Offset Management Strategy).	
B1.8	Information about how the potential offset area/s provides connectivity with other relevant habitats and biodiversity corridors.	Connectivity is discussed in Attachment K (Preliminary Offset Management Strategy).	
B1.9	Details and execution timing of the mechanism to legally secure the environmental offset/s (under Queensland legislation or equivalent) to provide enduring protection for the potential offset area/s against development incompatible with conservation.	Legal mechanisms are discussed in Attachment K (Preliminary Offset Management Strategy).	
B2. Minim	um Requirements for a draft Offset Area Management Plan:		
B2.1	Specific, committal and measurable environmental outcomes which detail the nature of the conservation gain to be achieved for relevant MNES, including the creation, restoration and revegetation of habitat in the proposed offset area/s.	<ul> <li>An Offset Area Management Plan (OAMP) will be prepared following the approval of the project and further investigative field survey.</li> <li>A discussion of the components of the future OAMP is provided in Attachment K (Preliminary Offset Management Strategy).</li> </ul>	
B2.2	<ul> <li>Details, with supporting evidence, to demonstrate how the environmental offset/s compensate for residual significant impacts of the proposed action on relevant MNES, and/or their habitat, in accordance with the principles of the Offsets Policy and all requirements of the Offsets Assessment Guide including: <ul> <li>time over which loss is averted (max. 20 years);</li> <li>time until ecological benefit;</li> <li>risk of loss (%) without offset;</li> <li>risk of loss (%) with offset; and</li> <li>confidence in result (%).</li> </ul> </li> </ul>	<ul> <li>An OAMP will be prepared following the approval of the project and further investigative field survey.</li> <li>A discussion of the components of the future OAMP is provided in Attachment K (Preliminary Offset Management Strategy.</li> </ul>	
B2.3	A description of the offset area/s, including location, size, condition, environmental values present and surrounding land uses.	<ul> <li>An OAMP will be prepared following the approval of the project and further investigative field survey.</li> <li>A discussion of the components of the future OAMP is provided in Attachment K (Preliminary Offset Management Strategy).</li> </ul>	
B2.4	Baseline data and other supporting evidence that documents the presence of the relevant MNES, and the quality of their habitat within the offset area/s.	<ul> <li>An OAMP will be prepared following the approval of the project and further investigative field survey.</li> <li>A discussion of the components of the future OAMP is provided in Attachment K (Preliminary Offset Management Strategy).</li> </ul>	



Informatio	n Required	Relevant Location(s)
B2.5	An assessment of the site habitat quality for the offset area/s (e.g. using the Queensland Government <u>Guide to determining terrestrial habitat quality: A toolkit for assessing land based offsets under the Queensland Environmental Offsets Policy</u> [2020]).	<ul> <li>An OAMP will be prepared following the approval of the project and further investigative field survey.</li> <li>A discussion of the components of the future OAMP is provided in Attachment K (Preliminary Offset Management Strategy).</li> </ul>
B2.6	Details of how the offset area/s will provide connectivity with other habitats and biodiversity corridors and/or will contribute to a larger strategic offset for the relevant MNES.	<ul> <li>An OAMP will be prepared following the approval of the project and further investigative field survey.</li> <li>A discussion of the components of the future OAMP is provided in Attachment K (Preliminary Offset Management Strategy).</li> </ul>
B2.7	Maps and shapefiles to clearly define the location and boundaries of the offset area/s, accompanied by the offset attributes (e.g., physical address of the offset area/s, coordinates of the boundary points in decimal degrees, the relevant MNES that the environmental offset/s compensates for, and the size of the environmental offset/s in hectares).	<ul> <li>An OAMP will be prepared following the approval of the project and further investigative field survey.</li> <li>A discussion of the components of the future OAMP is provided in Attachment K (Preliminary Offset Management Strategy).</li> </ul>
B2.8	Specific offset completion criteria derived from the site habitat quality to demonstrate the improvement in the quality of habitat in the offset area/s over a 20-year period.	<ul> <li>An OAMP will be prepared following the approval of the project and further investigative field survey.</li> <li>A discussion of the components of the future OAMP is provided in Attachment K (Preliminary Offset Management Strategy).</li> </ul>
B2.9	Details of the management actions, and timeframes for implementation, to be carried out to meet the offset completion criteria.	<ul> <li>An OAMP will be prepared following the approval of the project and further investigative field survey.</li> <li>A discussion of the components of the future OAMP is provided in Attachment K (Preliminary Offset Management Strategy).</li> </ul>
B2.10	Interim milestones that set targets at 5-yearly intervals for progress towards achieving the offset completion criteria.	<ul> <li>An OAMP will be prepared following the approval of the project and further investigative field survey.</li> <li>A discussion of the components of the future OAMP is provided in Attachment K (Preliminary Offset Management Strategy).</li> </ul>
B2.11	Details of the nature, timing and frequency of monitoring to inform progress against achieving the 5-yearly interim milestones (the frequency of monitoring must be sufficient to track progress towards each set of milestones, and sufficient to determine whether the offset area/s are likely to achieve those milestones in adequate time to implement all necessary corrective actions).	<ul> <li>An OAMP will be prepared following the approval of the project and further investigative field survey.</li> <li>A discussion of the components of the future OAMP is provided in of Attachment K (Preliminary Offset Management Strategy).</li> </ul>


Information	n Required	Relevant Location(s)	
B2.12	Proposed timing for the submission of monitoring reports which provide evidence demonstrating whether the interim milestones have been achieved.	•	An OAMP will be prepared following the approval of the project and further investigative field survey. A discussion of the components of the future OAMP is provided in Attachment K (Preliminary Offset Management Strategy).
B2.13	Timing for the implementation of tangible, on-ground corrective actions to be implemented if monitoring activities indicate the interim milestones have not been achieved.	•	An OAMP will be prepared following the approval of the project and further investigative field survey. A discussion of the components of the future OAMP is provided in Attachment K (Preliminary Offset Management Strategy).
B2.14	Risk analysis and a risk management and mitigation strategy for all risks to the successful implementation of the OAMP and timely achievement of the offset completion criteria, including a rating of all initial and post-mitigation residual risks in accordance with a risk assessment matrix.	•	An OAMP will be prepared following the approval of the project and further investigative field survey. A discussion of the components of the future OAMP is provided in Attachment K (Preliminary Offset Management Strategy).
B2.15	Evidence of how the management actions and corrective actions take into account relevant approved conservation advice and are consistent with relevant recovery plans and threat abatement plans.	•	An OAMP will be prepared following the approval of the project and further investigative field survey. A discussion of the components of the future OAMP is provided in Attachment K (Preliminary Offset Management Strategy).
B2.16	Details and execution timing of the mechanism to legally secure the proposed offset area/s, such that legal security remains in force over the offset area/s for at least 20 years to provide enduring protection for the offset area/s against development incompatible with conservation.	•	An OAMP will be prepared following the approval of the project and further investigative field survey. A discussion of the components of the future OAMP is provided in Attachment K (Preliminary Offset Management Strategy).
B2.17	All proposed management actions, monitoring approach and corrective actions must be written using committed language (e.g., 'will' and 'must').	•	An OAMP will be prepared following the approval of the project and further investigative field survey. A discussion of the components of the future OAMP is provided in Attachment K (Preliminary Offset Management Strategy).



Information	Required	Relevant Location(s)
	nissioning requirements* ent considers that these requirements must be completed during the EPBC Act assessment process.	
C1.1	<ul> <li>Desktop assessment: Preliminary site characterisation</li> <li>To predict the potential for the listed threatened and migratory bird and bat species identified in Section 2 above (at a minimum) to be using the project site and its surrounds, the BBMP must include the process and outcomes of:</li> <li>A preliminary site characterisation (desktop and/or initial site visit) for each species to identify all drivers of presence on the project site and utilisation of the project site. This characterisation must include, but not limited to, the consideration of:         <ul> <li><u>site characteristics:</u> focal habitat features, topography, prevailing wind and weather patterns, wetlands (including adjacent to project site), and distance to potential nesting, roosting and foraging areas.</li> <li><u>species characteristics:</u> behaviour, flight or demographic factors (e.g., species presence [ongoing, transitory/migratory]), site use (e.g., transit, roosting, breeding and/or foraging), flight paths (including migratory flight paths), flight heights, soaring, flocking, and population numbers.</li> </ul> </li> </ul>	<ul> <li>The approach and outcomes of the desktop assessment are discussed in the following locations:         <ul> <li>Section 3.1 of Attachment G (Preliminary Bird and Bat Adaptive Management Plan).</li> <li>Appendix A (Bird and Bat Utilisation Assessment) of Attachment G (Preliminary Bird and Bat Adaptive Management Plan).</li> <li>Site conditions have been summarised in Section 4.2.1 of Appendix A (Bird and Bat Utilisation Assessment) of Attachment G (Preliminary Bird and Bat Adaptive Management Plan).</li> </ul> </li> </ul>
C1.2	<ul> <li>Site-specific assessment: Site utilisation surveys</li> <li>To validate the outcomes of the desktop assessment, the BBMP must include a detailed discussion of how atrisk listed threatened and migratory bird and bat species are using the project site (both project site and proposed disturbance footprint). This discussion must be informed by site-specific and species-specific site utilisation surveys (undertaken by a suitably qualified expert) and supported by other relevant scientific evidence.</li> <li>Further, this discussion must include detailed information on: <ul> <li>How the design of the site utilisation surveys for each relevant species has been informed by its drivers of presence on the project site and utilisation of the project site (as determined through the preliminary site characterisation).</li> <li>How site utilisation surveys for each relevant species have been designed to improve understanding of site utilisation on the project site and its surrounds; and support the proposed ongoing BACI framework in this BBMP.</li> </ul> </li> </ul>	<ul> <li>The design and outcomes of pre- commissioning site utilisation surveys are discussed in the following locations:         <ul> <li>Section 3 of Attachment G (Preliminary Bird and Bat Adaptive Management Plan).</li> <li>Appendix A (Bird and Bat Utilisation Assessment) of Attachment G (Preliminary Bird and Bat Adaptive Management Plan).</li> </ul> </li> </ul>



Information Required		Relevant Location(s)	
	The site utilisation survey methodology for each relevant species must be included as an attachment to the BBMP. <b>Note:</b> At least 24 months of site utilisation surveys must be undertaken to provide sufficient baseline data about a relevant species' potential to utilise the project site and its surrounds. Site utilisation surveys must be undertaken for each relevant season over a minimum two years (up to 8 survey events). Each site utilisation survey must be of an appropriate duration and spatial coverage (including taking into consideration the potential turbine layout and visibility) to adequately evaluate site utilisation. At a minimum, each site utilisation survey must record the relevant information specified in 'Species characteristics' of the 'Desktop assessment: Preliminary site characterisation' (Section C1.1 above).	<ul> <li>Figure 3.1 and Figure 5.1 of Attachment G (Preliminary Bird and Bat Adaptive Management Plan) show survey locations and known threatened species records.</li> </ul>	
C1.3	<ul> <li>Long-term impact risk assessment</li> <li>To enable a robust assessment of potential impacts of the proposed action associated with individual mortality from turbine collision and barotrauma, and potential changes to species utilisation of the project site and its surrounds on relevant species, the BBMP must include, but not be limited to: <ul> <li>An assessment of the potential impact pathways on each relevant species (based on the desktop assessment [Section C1.1 above] and site utilisation surveys [Section C1.2 above]) including, but not limited to: <ul> <li>direct mortality from turbine collision and barotrauma; and</li> <li>potential changes to site utilisation during construction and operation of the proposed action.</li> </ul> </li> <li>Identification of potential impacts to each relevant species from direct mortality, including but not limited to: <ul> <li>analysis and mapping of suitable habitat, territories and activity/utilisation patterns/rates ('heat maps') in the project site and its surrounds.</li> </ul> </li> <li>Where there is likely risk of collision based on the above analysis, the Mathematical Collision Risk Modelling (CRM), will need to be undertaken. This must: <ul> <li>incorporate a project site-wide assessment and identify high risk turbines;</li> <li>incorporate the recommendations of a model peer review (the peer review must be included as an appendix to the preliminary documentation); and</li> <li>include a literature review, justification of the choice of the model used, and a statement of all assumptions and uncertainties.</li> </ul> </li> <li>Where limited data are available to inform a robust CRM, an alternative methodology must be proposed in order to meet the requirements of the long-term risk assessment.</li> </ul></li></ul>	<ul> <li>The long-term impact risk assessment approach is discussed in the following locations:         <ul> <li>Section 4 of Attachment G (Preliminary Bird and Bat Adaptive Management Plan).</li> <li>Appendix A (Bird and Bat Utilisation Assessment) of Attachment G (Preliminary Bird and Bat Adaptive Management Plan).</li> <li>Appendix B (Collision Risk Assessment) of Attachment G (Preliminary Bird and Bat Adaptive Management Plan).</li> </ul> </li> </ul>	



Information	n Required	Relevant Location(s)
	The BBMP must clearly demonstrate how relevant departmental policies and guidelines, and the SPRAT Database have been used to assess the potential impacts of direct mortality from turbine collision and barotrauma, and potential changes to site utilisation during construction and operation of the proposed action on relevant listed threatened and migratory bird and bat species. The BBMP must include a map for each relevant species which identifies area/s in the project site and its surrounds which have been determined as species at risk based on the outputs of the CRM.	
C2. Post-Co	mmissioning requirements	
C2.1	<ul> <li>Environmental outcomes</li> <li>To enable a robust long-term approach to mitigate and manage potential impacts associated with individual mortality from turbine collision and barotrauma, and potential changes to species utilisation of the project site and its surrounds on relevant species, the BBMP must include specific environmental outcomes to be achieved by the implementation of the BBMP. This may include, but is not limited to:</li> <li>An improved understanding of the risk of turbine collision and barotrauma impacts on listed bird and bat species.</li> <li>An improved understanding of whether or how project site usage changes as a result of wind farm construction and operation.</li> <li>An improved monitoring approach for the timely identification of turbine collisions and the timely collection and analysis of data.</li> <li>The department notes that the use of cadaver dogs and artificial intelligence monitoring technologies might be needed to detect and prevent bird and bat collision.</li> <li>An improved approach to the timely and regular validation and update to the CRM using monitoring data and support a robust adaptive management approach.</li> <li>The development and implementation of tangible, on-ground management measures and corrective actions to promote a long-term reduction in the risk of turbine collision and barotrauma impacts on listed bird and bat species.</li> </ul>	<ul> <li>Environmental outcomes are discussed in Section 5, Section 6, and Section 7 of Attachment G (Preliminary Bird and Bat Adaptive Management Plan).</li> <li>Updated aim in response to RFI comments updated in Section 1.2 of Attachment G (Preliminary Bird and Bat Adaptive Management Plan).</li> <li>Adaptive management approach updated in Section 6.3 of Attachment G (Preliminary Bird and Bat Adaptive Management Plan).</li> <li>Discussion in section 4.0 of Attachment G (Preliminary Bird and Bat Adaptive Management Plan).</li> <li>Discussion in section 4.0 of Attachment G (Preliminary Bird and Bat Adaptive Management Plan) on the incorporation of ongoing bird and bat data collected during and post commissioning to be incorporated into the Risk Assessment and updated upon completion of 24-months of monitoring (Section 8 of Attachment G, Reporting Requirements).</li> </ul>



Information R	equired	Relevant Location(s)
C2.2	<ul> <li>Long-term site utilisation surveys</li> <li>To detect potential long-term changes to species utilisation of the project site and its surrounds on relevant species as a result of operation, the BBMP must include a long-term site utilisation survey program (prepared by a suitably qualified expert) for each relevant species. The program must, at a minimum:</li> <li>be designed to ensure that species behaviour responses, including avoidance of turbines, and changes to project site utilisation, can be detected;</li> <li>be designed to support a BACI monitoring framework;</li> <li>include site utilisation survey methodologies, and proposed timings, which are consistent with the precommissioning site utilisation survey methodologies;</li> <li>be undertaken by a suitable qualified expert;</li> <li>be able to inform adaptive mitigation and management measures, and corrective actions, to ensure environmental outcomes will be achieved.</li> </ul>	<ul> <li>The long-term monitoring approach is discussed in Section 5, Section 6, and Section 7 of Attachment G (Preliminary Bird and Bat Adaptive Management Plan).</li> <li>Survey schedule moved to the introduction of Section 5 in Attachment G (Preliminary Bird and Bat Adaptive Management Plan) and updated.</li> <li>Requirement of desktop assessment to bird and bat monitoring program updated in Section 5.0 of Attachment G (Preliminary Bird and Bat Adaptive Management Plan).</li> </ul>
C2.3	<ul> <li>Long-term turbine collision and barotrauma monitoring</li> <li>To manage potential long-term mortality impacts on relevant species as a result of turbine collision and barotrauma, the BBMP must include a long-term monitoring and CRM update approach. The approach must, at a minimum:</li> <li>Include details of the nature, timing and frequency of monitoring to inform progress against achieving the environmental outcomes and be sufficient to determine whether the BBMP is likely to achieve those environmental outcomes in adequate time to implement all necessary corrective actions.</li> <li>Demonstrate how site-specific and species-specific risks and uncertainties have informed the design of the monitoring program (e.g., scavenger activity, searcher efficiency, etc.).</li> <li>Include a proposed timeframe for the regular validation and update of the CRM using site-specific data collected through ongoing monitoring activities.</li> <li>Include a commitment to DNA test carcasses that cannot be otherwise identified by a bird or bat expert.</li> <li>Include a commitment for carcass persistence trials to maximise turbine collision detection in a timely manner.</li> </ul>	<ul> <li>The long-term monitoring approach is discussed in Section 5, Section 6, and Section 7 of Attachment G (Preliminary Bird and Bat Adaptive Management Plan).</li> <li>Section 5.2.6 of Attachment G (Preliminary Bird and Bat Adaptive Management Plan) includes discussion of carcass detectability trial undertaken for ecologists and detector dogs.</li> </ul>



Information Re	quired	Relevant Location(s)
C2.4	<ul> <li>Reporting requirements to the department</li> <li>The BBMP must include, at a minimum, the following reporting commitments (and proposed timeframes) for the provision of site-specific and species-specific information to the department:</li> <li>Annual turbine strike reports comprising raw strike data and strike notifications, survey methodologies, results of detection/persistence trials, environmental/meteorological conditions and associated statistical analysis.</li> <li>Estimations of annual mortality rate for each relevant species, comprising supporting evidence from case studies of EPBC species carcass size classes, results of persistence trials, searcher efficiency trials and substitute carrion trials, and annual probability of detection and monthly strike monitoring.</li> <li>Species occurrence records in accordance with the department's <u>Guidelines for biological survey and mapped data (2018)</u> using the species observation data template on the department's <u>Sensitive Ecological Data – Access and Management Policy V1.0</u> (2016) or subsequent revision).</li> </ul>	<ul> <li>Reporting requirements are addressed in Section 8 of Attachment G (Preliminary Bird and Bat Adaptive Management Plan).</li> <li>Updated reporting and notification period in Section 6.1.1 of Attachment G (Preliminary Bird and Bat Adaptive Management Plan).</li> <li>Updated carcass search program in Section 5.2 of Attachment G (Preliminary Bird and Bat Adaptive Management Plan).</li> <li>Updated reporting requirements as per above in Section 8 of Attachment G (Preliminary Bird and Bat Adaptive Management Plan).</li> </ul>
C2.5	<ul> <li>Adaptive management framework</li> <li>To ensure the environmental outcomes will be achieved for relevant species, the BBMP must include an adaptive management framework. The adaptive management framework must, at a minimum:</li> <li>Be designed to clearly demonstrate the linkages between: <ul> <li>environmental outcomes;</li> <li>implementation of mitigation and management measures;</li> <li>monitoring, reporting and investigations; and</li> <li>implementation of corrective actions to ensure environmental outcomes will be achieved.</li> </ul> </li> <li>Be designed to incorporate site-specific data collected through ongoing monitoring activities (see requirement 2.4 above) and take into account changes to turbine risk ratings based on the CRM outputs.</li> <li>Identify, with proposed timeframes for implementation, tangible, on-ground corrective actions to be implemented if monitoring activities indicate the environmental outcomes have not been, or unlikely to be, achieved.</li> </ul> <li>Propose alternative mitigation and management measures, supported by scientific literature, if monitoring activities indicate the environmental outcomes have not been achieved.</li>	The adaptive management framework is set out in Section 5, Section 6, and Section 7 of Attachment G (Preliminary Bird and Bat Adaptive Management Plan).



Information Re	equired	Relevant Location(s)
C2.6	<ul> <li>Offset requirements and shutdown procedures</li> <li>The BBMP must include a framework for the ongoing assessment of impacts on protected matters as a result of turbine strike and/or barotrauma. Annual impact triggers (informed by scientific literature and relevant departmental guidelines) must be tracked and reported to the department. Incremental impact triggers must be tracked that, if reached or exceeded, require:         <ul> <li>the implementation of additional/alternative mitigation measures;</li> <li>the provision of environmental offsets; and</li> <li>shutdown procedures – the wind turbine/s that contributed to reaching or exceeding an impact trigger would be required to cease operation.</li> </ul> </li> </ul>	Offset requirements and shutdown procedures are addressed in Section 6 and Section 7 of Attachment G (Preliminary Bird and Bat Adaptive Management Plan).

## Table A4Bird and Bat Management Plan (BBMP)

Information	Required	Relevant Location(s)	
	C1. Pre-commissioning requirements* *The department considers that these requirements must be completed during the EPBC Act assessment process.		
C1.1	<ul> <li>Desktop assessment: Preliminary site characterisation         To predict the potential for the listed threatened and migratory bird and bat species identified in Section 2 above (at a minimum) to be using the project site and its surrounds, the BBMP must include the process and outcomes of:         <ul> <li>A preliminary site characterisation (desktop and/or initial site visit) for each species to identify all drivers of presence on the project site and utilisation of the project site. This characterisation must include, but not limited to, the consideration of:                 <ul> <li>site characteristics: focal habitat features, topography, prevailing wind and weather patterns, wetlands (including adjacent to project site), and distance to potential nesting, roosting and foraging areas.</li> <li>species characteristics: behaviour, flight or demographic factors (e.g., species presence [ongoing, transitory/migratory]), site use (e.g., transit, roosting, breeding and/or foraging), flight paths (including migratory flight paths), flight heights, soaring, flocking, and population numbers.</li> </ul> </li> </ul></li></ul>	<ul> <li>The approach and outcomes of the desktop assessment are discussed in the following locations:         <ul> <li>Section 3.1 of Attachment G (Preliminary Bird and Bat Adaptive Management Plan).</li> <li>Appendix A (Bird and Bat Utilisation Assessment) of Attachment G (Preliminary Bird and Bat Adaptive Management Plan).</li> </ul> </li> </ul>	



Informatio	n Required	Relevant Location(s)
C1.2	<ul> <li>Site-specific assessment: Site utilisation surveys</li> <li>To validate the outcomes of the desktop assessment, the BBMP must include a detailed discussion of how atrisk listed threatened and migratory bird and bat species are using the project site (both project site and proposed disturbance footprint). This discussion must be informed by site-specific and species-specific site utilisation surveys (undertaken by a suitably qualified expert) and supported by other relevant scientific evidence.</li> <li>Further, this discussion must include detailed information on: <ul> <li>How the design of the site utilisation surveys for each relevant species has been informed by its drivers of presence on the project site and utilisation of the project site (as determined through the preliminary site characterisation).</li> <li>How site utilisation surveys for each relevant species have been designed to improve understanding of site utilisation on the project site and its surrounds; and support the proposed ongoing BACI framework in this BBMP.</li> <li>The site utilisation survey methodology for each relevant species must be included as an attachment to the BBMP.</li> </ul> </li> <li>Note: At least 24 months of site utilisation surveys must be undertaken to provide sufficient baseline data about a relevant season over a minimum two years (up to 8 survey events). Each site utilisation survey must be of an appropriate duration and spatial coverage (including taking into consideration the potential turbine layout and visibility) to adequately evaluate site utilisation.</li> <li>At a minimum, each site utilisation survey must record the relevant information specified in 'Species characteristics' of the 'Desktop assessment: Preliminary site characterisation' (Section C1.1 above).</li> </ul>	<ul> <li>The design and outcomes of pre- commissioning site utilisation surveys are discussed in the following locations:         <ul> <li>Section 3 of Attachment G (Preliminary Bird and Bat Adaptive Management Plan).</li> <li>Appendix A (Bird and Bat Utilisation Assessment) of Attachment G (Preliminary Bird and Bat Adaptive Management Plan).</li> </ul> </li> </ul>
C1.3	<ul> <li>Long-term impact risk assessment</li> <li>To enable a robust assessment of potential impacts of the proposed action associated with individual mortality from turbine collision and barotrauma, and potential changes to species utilisation of the project site and its surrounds on relevant species, the BBMP must include, but not be limited to:</li> <li>An assessment of the potential impact pathways on each relevant species (based on the desktop assessment [Section C1.1 above] and site utilisation surveys [Section C1.2 above]) including, but not limited to:         <ul> <li>direct mortality from turbine collision and barotrauma; and</li> <li>potential changes to site utilisation during construction and operation of the proposed action.</li> </ul> </li> </ul>	<ul> <li>The long-term impact risk assessment approach is discussed in the following locations:         <ul> <li>Section 4 of Attachment G (Preliminary Bird and Bat Adaptive Management Plan).</li> <li>Appendix A (Bird and Bat Utilisation Assessment) of Attachment G (Preliminary Bird and Bat Adaptive Management Plan).</li> </ul> </li> </ul>



Information Req	uired	Relevant Location(s)
Information Req	<ul> <li>Identification of potential impacts to each relevant species from direct mortality, including but not limited to: <ul> <li>analysis and mapping of suitable habitat, territories and activity/utilisation patterns/rates ('heat maps') in the project site and its surrounds.</li> </ul> </li> <li>Where there is likely risk of collision based on the above analysis, the Mathematical Collision Risk Modelling (CRM), will need to be undertaken. This must: <ul> <li>incorporate a project site-wide assessment and identify high risk turbines;</li> <li>incorporate baseline data collected during the minimum 24 months of site utilisation surveys;</li> <li>incorporate the recommendations of a model peer review (the peer review must be included as an appendix to the preliminary documentation); and</li> <li>include a literature review, justification of the choice of the model used, and a statement of all assumptions and uncertainties.</li> </ul> </li> <li>Where limited data are available to inform a robust CRM, an alternative methodology must be proposed in order to meet the requirements of the long-term risk assessment.</li> <li>The BBMP must clearly demonstrate how relevant departmental policies and guidelines, and the SPRAT Database have been used to assess the potential impacts of direct mortality from turbine collision and barotrauma, and potential changes to site utilisation during construction and operation of the proposed action on relevant listed threatened and migratory bird and bat species.</li> </ul>	<ul> <li>Appendix B (Collision Risk Assessment) of Attachment G (Preliminary Bird and Bat Adaptive Management Plan).</li> </ul>
	The BBMP must include a map for each relevant species which identifies area/s in the project site and its surrounds which have been determined as species at risk based on the outputs of the CRM.	
C2. Post-Commis	ssioning requirements	
C2.1	<ul> <li>Environmental outcomes</li> <li>To enable a robust long-term approach to mitigate and manage potential impacts associated with individual mortality from turbine collision and barotrauma, and potential changes to species utilisation of the project site and its surrounds on relevant species, the BBMP must include specific environmental outcomes to be achieved by the implementation of the BBMP. This may include, but is not limited to:</li> <li>An improved understanding of the risk of turbine collision and barotrauma impacts on listed bird and bat species.</li> <li>An improved understanding of whether or how project site usage changes as a result of wind farm construction and operation.</li> <li>An improved monitoring approach for the timely identification of turbine collisions and the timely collection and analysis of data.</li> </ul>	Environmental outcomes are discussed in Section 5, Section 6, and Section 7 of Attachment G (Preliminary Bird and Bat Adaptive Management Plan).



Informatio	n Required	Relevant Location(s)
	<ul> <li>The department notes that the use of cadaver dogs and artificial intelligence monitoring technologies might be needed to detect and prevent bird and bat collision.</li> <li>An improved approach to the timely and regular validation and update to the CRM using monitoring data and support a robust adaptive management approach.</li> <li>The development and implementation of tangible, on-ground management measures and corrective actions to promote a long-term reduction in the risk of turbine collision and barotrauma impacts on listed bird and bat species.</li> </ul>	
C2.2	<ul> <li>Long-term site utilisation surveys</li> <li>To detect potential long-term changes to species utilisation of the project site and its surrounds on relevant species as a result of operation, the BBMP must include a long-term site utilisation survey program (prepared by a suitably qualified expert) for each relevant species. The program must, at a minimum:</li> <li>be designed to ensure that species behaviour responses, including avoidance of turbines, and changes to project site utilisation, can be detected;</li> <li>be designed to support a BACI monitoring framework;</li> <li>include site utilisation survey methodologies, and proposed timings, which are consistent with the precommissioning site utilisation survey methodologies;</li> <li>be undertaken by a suitable qualified expert;</li> <li>be able to inform adaptive mitigation and management measures, and corrective actions, to ensure environmental outcomes will be achieved.</li> </ul>	The long-term monitoring approach is discussed in Section 5, Section 6, and Section 7 of Attachment G (Preliminary Bird and Bat Adaptive Management Plan).
C2.3	<ul> <li>Long-term turbine collision and barotrauma monitoring <ul> <li>To manage potential long-term mortality impacts on relevant species as a result of turbine collision and barotrauma, the BBMP must include a long-term monitoring and CRM update approach. The approach must, at a minimum:</li> <li>Include details of the nature, timing and frequency of monitoring to inform progress against achieving the environmental outcomes and be sufficient to determine whether the BBMP is likely to achieve those environmental outcomes in adequate time to implement all necessary corrective actions.</li> <li>Demonstrate how site-specific and species-specific risks and uncertainties have informed the design of the monitoring program (e.g., scavenger activity, searcher efficiency, etc.).</li> <li>Include a proposed timeframe for the regular validation and update of the CRM using site-specific data collected through ongoing monitoring activities.</li> <li>Include a commitment to DNA test carcasses that cannot be otherwise identified by a bird or bat expert.</li> </ul> </li> </ul>	The long-term monitoring approach is discussed in Section 5, Section 6, and Section 7 of Attachment G (Preliminary Bird and Bat Adaptive Management Plan).



Information Required		Relevant Location(s)
	<ul> <li>Include a commitment for carcass persistence trials to maximise turbine collision detection in a timely manner.</li> <li>Include a commitment for searcher efficiency trials to maximise carcass detection in a timely manner.</li> </ul>	
C2.4	<ul> <li>Reporting requirements to the department         The BBMP must include, at a minimum, the following reporting commitments (and proposed timeframes) for         the provision of site-specific and species-specific information to the department:         <ul> <li>Annual turbine strike reports comprising raw strike data and strike notifications, survey methodologies,             results of detection/persistence trials, environmental/meteorological conditions and associated statistical             analysis.</li>             Estimations of annual mortality rate for each relevant species, comprising supporting evidence from case             studies of EPBC species carcass size classes, results of persistence trials, searcher efficiency trials and             substitute carrion trials, and annual probability of detection and monthly strike monitoring.</ul></li> <li>Species occurrence records in accordance with the department's <u>Guidelines for biological survey and</u></li> </ul>	Reporting requirements are addressed in Section 8 of Attachment G (Preliminary Bird and Bat Adaptive Management Plan).
	<ul> <li>Species occurrence records in accordance with the department's <u>Guidelines for biological survey and</u> <u>mapped data (2018)</u> using the species observation data template on the department's website (sensitive ecological data must be identified and treated in accordance with the department's <u>Sensitive Ecological</u> <u>Data – Access and Management Policy V1.0</u> (2016) or subsequent revision).</li> </ul>	
C2.5	<ul> <li>Adaptive management framework</li> <li>To ensure the environmental outcomes will be achieved for relevant species, the BBMP must include an adaptive management framework. The adaptive management framework must, at a minimum:</li> <li>Be designed to clearly demonstrate the linkages between: <ul> <li>environmental outcomes;</li> <li>implementation of mitigation and management measures;</li> <li>monitoring, reporting and investigations; and</li> <li>implementation of corrective actions to ensure environmental outcomes will be achieved.</li> </ul> </li> <li>Be designed to incorporate site-specific data collected through ongoing monitoring activities (see requirement 2.4 above) and take into account changes to turbine risk ratings based on the CRM outputs.</li> <li>Identify, with proposed timeframes for implementation, tangible, on-ground corrective actions to be implemented if monitoring activities indicate the environmental outcomes have not been, or unlikely to be, achieved.</li> </ul> <li>Propose alternative mitigation and management measures, supported by scientific literature, if monitoring activities indicate the environmental outcomes have not been achieved.</li>	The adaptive management framework is set out in Section 5, Section 6, and Section 7 of Attachment G (Preliminary Bird and Bat Adaptive Management Plan).



Information Required		Relevant Location(s)
C2.6	<ul> <li>Offset requirements and shutdown procedures</li> <li>The BBMP must include a framework for the ongoing assessment of impacts on protected matters as a result of turbine strike and/or barotrauma. Annual impact triggers (informed by scientific literature and relevant departmental guidelines) must be tracked and reported to the department. Incremental impact triggers must be tracked that, if reached or exceeded, require: <ul> <li>the implementation of additional/alternative mitigation measures;</li> <li>the provision of environmental offsets; and</li> <li>shutdown procedures – the wind turbine/s that contributed to reaching or exceeding an impact trigger would be required to cease operation.</li> </ul> </li> </ul>	Offset requirements and shutdown procedures are addressed in Section 6 and Section 7 of Attachment G (Preliminary Bird and Bat Adaptive Management Plan).





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