

Appendix F

Consideration of clause 228(2) factors and matters of national environmental significance

Clause 228(2) Checklist

The following factors, listed in clause 228(2) of the *Environmental Planning and Assessment Regulation 2000*, have been considered to assess the likely impacts of the Proposal on the natural and built environment.

Factor	Impact
<p>a. Any environmental impact on a community?</p> <p>There would be temporary impacts on the local community during building work. Safeguards and management measures provided in Section 6 have proposed to minimise environmental impacts upon the community. There are long-term benefits of an improved bridge crossing of Sportsmans Creek.</p>	Minor negative short-term building impacts
<p>b. Any transformation of a locality?</p> <p>The Proposal would temporary transformation of a locality during establishment of the temporary site compound in Flo Clark Park and the building work. The bridge would have some permanent transformation, as the new bridge is located upstream of the existing. However, overall no significant transformation of the locality would occur as the bridge would replace the existing bridge in the locality.</p>	<p>Minor negative short-term impacts.</p> <p>Long-term minor impacts.</p>
<p>c. Any environmental impact on the ecosystems of the locality?</p> <p>The Proposal involves clearing vegetation including habitat for flora and fauna within Flo Clark Park, in 1 Section 5 DP758604 and potentially along Grafton Street. However, this clearing would not result in a long-term impact upon any EECs or threatened species of the local ecosystems of the locality, provided the safeguards and mitigation measures proposed in this REF are implemented.</p>	Minor short-term negative impacts.
<p>d. Any reduction of the aesthetic, recreational, scientific or other environmental quality or value of a locality?</p> <p>A short-term temporary reduction in recreational value of Flo Clark Park would be generated during the building due to the presence of the site compound and building work obstructing the boat ramp. Overall, building and operation of the Proposal would not have any significant impact on the environmental, scientific or recreational values of the area.</p>	Minor short-term negative impact.
<p>e. Any effect on a locality, place or building having aesthetic, anthropological, archaeological, architectural, cultural, historical, scientific or social significance or other special value for present or future generations?</p> <p>The Proposal building work would have a temporary short-term aesthetic impact upon Sportsmans Creek and Flo Clark Park. However, overall the Proposal would not have any significant effect on any place, structure or artefact of significance to either Non-Aboriginal or Aboriginal cultural heritage.</p>	Minor short-term negative impact.
<p>f. Any impact on the habitat of protected fauna (within the meaning of the <i>National Parks and Wildlife Act 1974</i>)?</p> <p>A biodiversity assessment was carried out which determined that the Proposal would not have a significant impact on the habitat of any protected or endangered fauna.</p> <p>The Proposal would provide new habitat for the Large-Footed Myotis (<i>myotis adversus</i>). population which would be trans-located into the new bridge, for the removal of the existing bridge.</p>	Long-term positive impacts.

Factor	Impact
<p>g. Any endangering of any species of animal, plant or other form of life, whether living on land, in water or in the air?</p> <p>Provided the safeguards and mitigation measures presented in this REF are effectively implemented the Proposal would not endanger any species of plant or animal.</p>	<p>Minor negative short-term impacts.</p>
<p>h. Any long-term effects on the environment?</p> <p>No significant long-term effects on the environment would result from the Proposal. However, minor long-term effects would be experienced upon the local noise environment for residents on Grafton Street, with the shift of the existing route through town from Bridge Street. The new noise levels would be reduced from the existing, with the new bridge building.</p>	<p>Minor negative short-term impacts.</p> <p>Long-term negative impacts for residents on Grafton Street.</p>
<p>i. Any degradation of the quality of the environment?</p> <p>Provided the safeguards and mitigation measures presented in this REF are effectively implemented there would be no significant degradation of the environment.</p>	<p>Minor negative short-term impacts.</p> <p>Long-term positive impacts through the improvement of the existing bridge structure.</p>
<p>j. Any risk to the safety of the environment?</p> <p>During the building of the proposed upgrade, there would be a low risk that hazardous substances, such as fuels or oils could be accidentally spilled and enter Sportsmans Creek. This risk would be minimised by storing and handling these substances within double-bunded areas.</p> <p>During the operation of the upgrade, there would be a low risk of the spillage of hazardous substances from a heavy vehicle involved in an accident. The probability of this occurring, and the magnitude of impacts likely to result would be reduced when compared with the existing bridge. This reduction in risk would be achieved by improving the width and safety of this section of highway, and therefore reducing the probability of an accident occurring;</p>	<p>Minor negative short-term impacts.</p>
<p>k. Any reduction in the range of beneficial uses of the environment?</p> <p>There would be no reduction in beneficial uses of the environment.</p>	<p>Nil.</p>
<p>l. Any pollution of the environment?</p> <p>Issues associated with the potential for pollution of the environment are discussed in (j) above. Provided that the proposed safeguards and mitigation measures in this REF are effectively implemented, it is unlikely that there would be any significant pollution of the environment.</p>	<p>Potential minor negative impacts may result if safeguards are not implemented.</p>
<p>m. Any environmental problems associated with the disposal of waste?</p> <p>No environmental problems associated with the disposal of wastes are expected, provided that the management measures described in this REF are effectively implemented.</p>	<p>Nil.</p>
<p>n. Any increased demands on resources (natural or otherwise) that are, or are likely to become, in short supply?</p> <p>No demand would be placed on resources which are in short supply nor does the Proposal require the use of resources (natural or otherwise) that are likely to be come in short-supply.</p>	<p>Nil.</p>
<p>o. Any cumulative environmental effect with other existing or likely future activities?</p> <p>Cumulative environmental effects have been discussed in Section 6.14. No cumulative effects are expected which would have any significant adverse effect on the environmental values of existing or future activities.</p>	<p>Nil.</p>

Factor	Impact
<p>p. Any impact on coastal processes and coastal hazards, including those under projected climate change conditions?</p> <p>The Proposal would be constructed within the coastal zone and would be subject to effects from climate change. The bridge design height would consider the impact of sea level rise upon flooding during detailed design. It is not anticipated that the Proposal would be impacted by future seal level rise.</p>	<p>Nil.</p>

Matters of National Environmental Significance

Under the environmental assessment provisions of the *Environment Protection and Biodiversity Conservation Act 1999*, the following matters of national environmental significance and impacts on Commonwealth land are required to be considered to assist in determining whether the Proposal should be referred to the Australian Government Department of the Environment.

Factor	Impact
a. Any impact on a World Heritage property? The Proposal would not impact upon any World Heritage properties.	Nil.
b. Any impact on a National Heritage place? The Proposal would not impact upon any National Heritage place.	Nil.
c. Any impact on a wetland of international importance? Although wetlands are present in the study area (refer to Section 6.3), the Proposal would not impact upon any wetlands of international importance.	Nil.
d. Any impact on a listed threatened species or communities? As noted in Section 6.3 and Appendix E, threatened species and communities have the potential to occur in the Proposal study area. However, none have been identified and adverse impacts upon them are not anticipated.	Nil.
e. Any impacts on listed migratory species? As noted in Section 6.3 and Appendix E, migratory species are likely to occur with the Proposal area. However, the Proposal is unlikely to have any adverse impacts upon migratory species.	Nil.
d. Any impact on a Commonwealth marine area? There are no commonwealth marine areas located in proximity to the Proposal.	Nil.
g. Does the Proposal involve a nuclear action (including uranium mining)? The Proposal does not involve any nuclear action.	Nil.
Additionally, any impact (direct or indirect) on Commonwealth land? The Proposal does not involve works on Commonwealth land nor would indirectly affect Commonwealth land.	Nil.