

Appendix A - Consideration of section 171 factors and matters of national environmental significance and Commonwealth land

Section 171 Factors

In addition to the requirements of the Guideline for Division 5.1 assessments (DPE 2022) and the Roads and Related Facilities EIS Guideline (DUAP 1996) as detailed in the REF, the following factors, listed in section 171 of the Environmental Planning and Assessment Regulation 2021, have also been considered to assess the likely impacts of the proposal on the natural and built environment.

Factor	Impact
a Any environmental impact on a community? The proposal would have negative impacts during construction due to noise, traffic and access disruptions to the community, but would have a positive impact during the operation of the Proposal by improving safety, efficiency, and access at the intersection.	Short term negative Long term positive
b Any transformation of a locality? Construction of the proposal would result in impacts associated with traffic and transport, noise and vibration and landscape character and visual amenity. These impacts would temporarily transform the locality surrounding the Proposal, however, are only expected to be short-term. Safeguards and management measures would be implemented to minimise these effects.	Short term negative Long term positive
c Any environmental impact on the ecosystems of the locality? Construction of the proposal would require the removal of several London plane trees and the clearing of other minor vegetation. As the proposal is located within a highly modified urban environment, significant impacts on local ecosystems are not anticipated	Nil
d Any reduction of the aesthetic, recreational, scientific or other environmental quality or value of a locality? Construction of the proposal would result in temporary impacts associated with traffic, noise and vibration, visual amenity, and air quality. These impacts would temporarily alter the character and amenity of the locality surrounding the proposal area; however, they are not expected to result in long-term effects. Vegetation removal would also be required during construction of the proposal, although this is not expected to result in a significant impact on the environmental quality or ecological value of the area.	Short term negative Nil
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? Impacts would be short term during construction of the proposal and would return to neutral during operation.	Nil
f Any impact on the habitat of protected fauna (within the meaning of the <i>National Parks and Wildlife Act 1974</i>)? No impact on the habitat of protected fauna due to highly urbanised environment.	Nil
g Any endangering of any species of animal, plant or other form of life, whether living on land, in water or in the air? No endangering of any animal, plant or other form of life due to highly urbanised environment.	Nil
h Any long-term effects on the environment? Vegetation would be removed as part of the proposal; however, given its primarily ornamental value and location within a highly disturbed urban environment, the removal is not expected to result in long-term environmental effects.	Nil

Factor	Impact
i Any degradation of the quality of the environment? Short-term impacts are likely to occur during construction of the proposal; however, the implementation of mitigation and management measures would minimise these impacts	Nil
j Any risk to the safety of the environment? There is potential for the decrease in road safety during construction of the proposal due to alternative access routes and detours. Traffic management safeguards would address the safety risks. The proposal would improve the safety for pedestrians and road users due to upgrades at the intersection and active travel paths.	Short term negative Long term positive
k Any reduction in the range of beneficial uses of the environment? No reduction in the range of beneficial uses of the environment.	Nil
l Any pollution of the environment? The proposal may potentially result in minor short-term impacts to water quality due to water and sediment run-off from construction activities, spills and also air quality due to increase in heavy vehicle movements. Management and safeguard measures will be implemented to reduce the risks associated with water quality. The proposal would increase the capacity of road users moving through the intersection, which may contribute to a decrease in air quality. This is expected to be minor however, as the intersection already experiences large volumes of vehicle movement and is located in a highly urbanised environment.	Short term negative
m Any environmental problems associated with the disposal of waste? Waste streams generated during construction are common and would pose no problems in their disposal. Where possible, waste materials would be recycled.	Nil
n Any increased demands on resources (natural or otherwise) that are, or are likely to become, in short supply? All resources required for the Proposal are readily available and are not likely to become short in supply.	Nil
o Any cumulative environmental effect with other existing or likely future activities? The long-term effect of the proposal and upgrading the intersection would have a positive cumulative impact on road safety and active transport for pedestrians and cyclists.	Long term positive
p Any impact on coastal processes and coastal hazards, including those under projected climate change conditions? Not relevant to the Proposal	Nil
q Applicable local strategic planning statements, regional strategic plans or district strategic plans made under the Act, Division 3.1, Review of applicable strategic planning statements and plans is provided in Chapter 2.1 of this assessment.	Long term positive
r Other relevant environmental factors.	In considering the potential impacts of this proposal all relevant environmental factors have been considered, refer to Chapter 6 of this assessment.

Matters of National Environmental Significance and Commonwealth land

Under the environmental assessment provisions of the EPBC Act, 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 Department of Climate Change, Energy, the Environment and Water .

A referral is not required for proposed actions that may affect nationally-listed threatened species, endangered ecological communities and migratory species. Impacts on these matters are still assessed as part of the REF in accordance with Australian Government significant impact criteria and taking into account relevant guidelines and policies.

Factor	Impact
Any impact on a World Heritage property?	Nil
Any impact on a National Heritage place?	Nil
Any impact on a wetland of international importance?	Nil
Any impact on a listed threatened species or communities?	Nil
Any impacts on listed migratory species?	Nil
Any impact on a Commonwealth marine area?	Nil
Does the proposal involve a nuclear action (including uranium mining)?	Nil
Additionally, any impact (direct or indirect) on the environment of Commonwealth land?	Nil