

Appendix I

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

Clause 228(2) Checklist

In addition to the requirements of the Is an EIS required? guideline as detailed in the REF, the following factors, listed in clause 228(2) of the Environmental Planning and Assessment Regulation 2000, have also 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>Construction of the proposal would result in some short-term negative impacts, such as visual amenity impacts, traffic and access disruptions, in addition to potential noise and air emissions impacts. These issues could impact negatively on the local community as described in Sections 6.4, 6.2, 6.11 and 6.1 of this REF.</p> <p>Potential visual amenity impacts during construction would include the placement and movement of construction vehicles within the proposal area. Potential traffic impacts during construction would include an increase in the volume of heavy vehicles, interruption of traffic flows on the current road network and temporary changes in speed limit and/or implementation of contra-flow type lane configurations (where required) resulting in increased travel times for motorists on the highway. Impacts to access may be experienced by residences and other sensitive receivers within the proposal area. Construction noise would be generated from construction plant and vehicles. Air quality impacts would result from dust, vehicle emissions and odour production. These impacts are likely to occur during the 18 month construction period.</p>	<p>Short-term, minor, negative</p>
<p>The primary long-term positive impact of the proposal would include improved road safety through improved lane configurations and turning opportunities. It would also result in improved access for pedestrians and cyclists, resulting in a positive benefit to the community.</p>	<p>Long-term, minor, positive</p>
<p>b. Any transformation of a locality?</p> <p>Construction of the proposal would temporarily impact the existing locality, predominantly through negative visual amenity impacts associated with the placement and movement of construction plant and equipment.</p>	<p>Short-term, minor, negative</p>
<p>In the longer term, the proposal would not result in the major transformation of the locality as it does not include any major earthworks or cuttings. There would be a minor improvement in the visual amenity of the area, following construction and landscaping of the site.</p>	<p>Long-term, positive</p>
<p>c. Any environmental impact on the ecosystems of the locality?</p> <p>The proposal would involve the clearing of about 30 street trees, as discussed in Section 6.9.4 and isolated patches of roadside vegetation. However, this would not have any significant impact on the ecosystems of the locality, as the proposal would not impact habitat or viability of any species, including any threatened flora or fauna species.</p>	<p>Short-term, minor, negative</p>

Factor	Impact
<p>d. Any reduction of the aesthetic, recreational, scientific or other environmental quality or value of a locality? During construction, the proposal would have the potential to create a reduction in the overall aesthetic quality of the proposal area due to the equipment associated with the construction worksite, dust and noise generation as well as traffic and access disruption. However, these impacts would be minimised as far as practicable through the implementation of safeguards outlined in Section 7.2.</p> <p>Improvements to cyclist and pedestrian facilities would result in an improvement to the recreational quality of the locality during operation.</p> <p>No recreational or scientific qualities of the proposal area are anticipated to be impacted during the construction or operation of the proposal.</p>	<p>Short-term, minor, negative</p> <p>Long-term, minor, positive</p>
<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? The proposal is not expected to have an impact on any 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>Nil</p>
<p>f. Any impact on the habitat of protected fauna (within the meaning of the <i>National Parks and Wildlife Act 1974</i>)? The Magenta Lilly Pilly (<i>Syzygium paniculatum</i>) is located about 50 metres from the proposal, to the north-east. The proposal is unlikely to affect the habitat of any protected fauna.</p>	<p>Nil</p>
<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? The proposal would not endanger any species of animal, plant or other form of life, whether living on land, in water or in the air.</p>	<p>Nil</p>
<p>h. Any long-term effects on the environment? The proposal would increase the number of traffic lanes, improve turning opportunities and provide better pedestrian and cyclist facilities. It would improve traffic conditions, including safety for pedestrians, cyclists and motorists and would improve traffic flow.</p>	<p>Long-term positive</p>
<p>i. Any degradation of the quality of the environment? The proposal has the potential to degrade the quality of the environment through accidental spills and erosion and sediment during construction. A Soil and Water Management Plan would be implemented to mitigate these impacts (Sections 6.5 and 6.10).</p>	<p>Short-term, minor, negative</p>
<p>j. Any risk to the safety of the environment? The construction phase has the potential to temporarily decrease safety along the Pacific Highway and Boundary Street due to road work and the movement of construction plant.</p> <p>Operation of the proposal would improve the safety of the environment through improvements to traffic flow and manoeuvring.</p>	<p>Short-term, minor, negative</p> <p>Long-term, minor, positive</p>

Factor	Impact
<p>k. Any reduction in the range of beneficial uses of the environment? The proposal would improve public transport, pedestrian and cycling facilities and improved traffic flow through the intersection and therefore within the locality.</p>	Long-term positive
<p>l. Any pollution of the environment? There is the potential for accidental spills of chemicals during construction which could affect the surrounding land, surface water and groundwater. There is the potential for air quality and noise amenity to be reduced during construction activities.</p>	Short-term, minor, negative
<p>The proposal is expected to have a beneficial impact on air quality in the area. Increased efficiency of the Pacific Highway and Boundary Street intersection and the Boundary Street and Archer Street intersection would result in shorter vehicle delays and a reduction in associated air emissions.</p>	Long-term, minor, positive
<p>m. Any environmental problems associated with the disposal of waste? An existing service station is located within the proposal area. The potential to excavate contaminated material would be managed according to safeguards outlined in Section 6.5.4.</p>	Short-term, minor, negative
<p>n. Any increased demands on resources (natural or otherwise) that are, or are likely to become, in short supply? The proposal would require resources such as concrete and asphalt, which are common construction materials. The proposal would not create any significant demand on these resources. The proposal would not create any significant demand on these resources. All other required resources for the proposal are considered to be readily available.</p>	Nil
<p>o. Any cumulative environmental effect with other existing or likely future activities? Construction of the proposal may overlap with other local development within the Ku-ring-gai Council and Willoughby Council LGAs. Cumulative impacts as a result of concurrent development would be managed according to safeguards outlined in Section 6.15.2.</p>	Short-term, minor, negative
<p>p. Any impact on coastal processes and coastal hazards, including those under projected climate change conditions? The proposal is not located within a coastal area and would not result in any impact on coastal processes and coastal hazards.</p>	Nil

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 Sustainability, Environment, Water, Population and Communities.

Factor	Impact
a. Any impact on a World Heritage property? The proposal would not have an impact on a World Heritage property.	Nil
b. Any impact on a National Heritage place? The proposal would not have any impact on a National Heritage place.	Nil
c. Any impact on a wetland of international importance? The proposal would not have any impact on a wetland of international importance.	Nil
d. Any impact on a listed threatened species or communities? The proposal would not impact any listed threatened species or communities.	Nil
e. Any impacts on listed migratory species? The proposal would not impact any listed migratory species.	Nil
f. Any impact on a Commonwealth marine area? The proposal would not have an impact on a Commonwealth marine area.	Nil
g. Does the proposal involve a nuclear action (including uranium mining)? The proposal would not have an impact on a Commonwealth marine area.	Nil
h. Additionally, any impact (direct or indirect) on Commonwealth land? The proposal would not have a direct or indirect impact on Commonwealth land.	Nil