

Appendix B

Consideration of Clause 228(2) factors and matters of national environmental significance and Commonwealth land

Clause 228(2) Checklist

In addition to the requirements of the *Is an EIS required?* guideline (DUAP 1995/1996) and the *Roads and Related Facilities EIS Guideline* (DUAP 1996) as detailed in the REF, the following factors, listed in Clause 228(2) of the EP&A Regulation, 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>The proposal would result in the clearance of up to 11.48 hectares of native vegetation. This would include up to 0.61ha of NSW listed box gum woodland. Also, this clearance of native vegetation would result in removal of potential foraging and breeding habitat for 14 NSW listed threatened fauna species and three Commonwealth listed threatened fauna species.</p> <p>Amenity impacts are also expected, including noise and dust emissions, during construction. Social impacts relating to effects on local businesses and safety have also been identified.</p> <p>The proposed work would result in a permanent, negative impact on threatened ecological communities and habitat for threatened species. However, this impact has been assessed as not significant, in light of the small area proposed for removal and the availability of habitat surrounding the proposed work area.</p> <p>Construction safeguards are proposed to minimise environmental impacts. Transport would also install safeguards to minimise social impacts and continue to work with the community as the proposal progresses.</p> <p>Positive social impacts of the proposal would include increased driver safety and travel efficiency through the proposal area once proposal is operational.</p> <p>Adverse social impacts of the proposal may include:</p> <ul style="list-style-type: none"> • Travel delays during construction of the proposal from road or lane closures • Temporary loss of access to the Wiradjuri Walking Track • Temporary inaccessibility of horse underpass near the Travers Street intersection and compromised safety of horses and jockeys using temporary access routes • Loss of direct access for horses and jockeys from Moorong Street to the MTC • Loss of overflow carparking at MTC • Potential economic impacts to businesses along Moorong Street from changed access conditions to Moorong Street • Safety concerns to school children arising from the changed school bus route along Moorong Street • Potential noise impacts during construction • Reduced visual amenity arising from vegetation clearance and potential night work • Potential dust emissions from soil exposed by vegetation clearance. <p>The safeguards identified in Table 70 and Table 76 would reduce the extent of social impacts of the proposal.</p>	<p>Major positive medium-term impact</p> <p>Moderate negative short-medium-term impact Negative short-term / Neutral long-term</p>

Factor	Impact
<p>b) Any transformation of a locality?</p> <p>The proposal would introduce a number of changes to the Old Narrandera Road and Travers Street intersections. Those changes would allow the Olympic Highway to adapt to growth within Wagga Wagga and cope with the increased traffic the growth is anticipated to cause. Those changes would allow the Olympic Highway and adjacent road network to adapt to growth within Wagga Wagga and manage the increased traffic levels the growth is anticipated to cause.</p>	Positive long-term
<p>c) Any environmental impact on the ecosystems of the locality?</p> <p>The proposal would result in the clearance of up to 11.48 hectares of native vegetation to accommodate the upgrades to the intersections. This would include up to 0.61ha of NSW listed box gum woodland. Also, this clearance of native vegetation would result in removal of potential foraging and breeding to habitat for 14 NSW listed threatened fauna and species and three Commonwealth listed threatened fauna species. It would reduce the connectivity available between existing vegetated areas, particularly by removing HBTs.</p> <p>The safeguards identified in Table 20 would reduce the extent of the impact caused through the removal of vegetation.</p>	Negative long-term.
<p>d) Any reduction of the aesthetic, recreational, scientific or other environmental quality or value of a locality?</p> <p>The proposal would result in the removal of vegetation to accommodate the intersection upgrades. This would result in low-moderate impacts on the aesthetic quality of those intersections and would result in a reduction in available habitat for fauna.</p> <p>The safeguards identified in Table 20 and Table 59 would reduce the extent of aesthetic impacts and impacts to the environmental value of the proposal.</p>	Negative long-term.
<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 is not expected to result in impacts to a locality, place or building that has aesthetic, anthropological, archaeological, architectural, cultural, historical, scientific or social significance.</p>	Nil
<p>f) Any impact on the habitat of protected fauna (within the meaning of the NPW Act)?</p> <p>The proposal would result in the removal of up to 11.48ha of native vegetation that provides foraging and breeding habitat for 14 BC ActNSW listed threatened fauna species and three Commonwealth listed threatened fauna species.</p> <p>The safeguards identified in Table 20 would reduce the extent of the impact caused through the removal of vegetation.</p>	Negative short-term / Neutral long-term

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>The proposed work is unlikely to endanger any species of animal, plant or other form of life. Safeguards would be applied to minimise the impacts on species.</p> <p>Though some native vegetation and species habitat is proposed for removal, this impact would not be significant or endanger the survival of any species within the local area.</p>	Neutral long-term
<p>h) Any long-term effects on the environment?</p> <p>Having regard for scale and extent of the proposed work, no long-term impacts are expected. The safeguards identified in Table 20 would reduce the extent of the impact caused through the removal of vegetation.</p>	Neutral long-term
<p>i) Any degradation of the quality of the environment?</p> <p>By removing vegetation and developing additional road infrastructure, the proposal would result in degradation to the quality of the existing natural environment. The safeguards identified in Table 20 would reduce the extent of the impact caused through the removal of vegetation. Amenity-related impacts are expected during construction. These would be managed by the safeguards outlined within this REF, including erosion and sedimentation controls, dust suppression and noise management. Removal of native vegetation and habitat is proposed; however, this is not expected to have a significant impact on the long-term survival of species and ecological communities in the area.</p>	Negative short-term / Neutral long-term
<p>j) Any risk to the safety of the environment?</p> <p>The proposal could result in pollution or safety risks to the environment during construction. Provided the recommended management and mitigation measures are implemented, this risk is considered unlikely to eventuate. Any risks to the environment would be sufficiently managed during construction through the preparation of construction environmental management plan (CEMP) and application of appropriate safeguards. The proposal, once operational, would improve the safety of the road and reduce the risk of vehicle accidents. This would reduce the risk for potential fires, spillages or litter associated with vehicle accidents.</p>	Positive long-term
<p>k) Any reduction in the range of beneficial uses of the environment?</p> <p>The proposal would result in the removal of up to 11.48ha of native vegetation that provides foraging and breeding habitat for 14 BC Act listed threatened fauna species and three EPBC Act listed threatened fauna species.</p> <p>The proposal would also result in decreased connectivity between HBTs that may provide habitat for squirrel gliders.</p> <p>The safeguards identified in Table 20 would reduce the extent of the impact caused through the removal of vegetation. No changes to the range of beneficial uses of the environment are expected.</p>	Neutral long-term

Factor	Impact
<p>l) Any pollution of the environment?</p> <p>The majority of waste would be generated during construction. The main types of waste would include:</p> <ul style="list-style-type: none"> • Excavated material • Green waste from removing and pruning trees and vegetation • General construction waste generated as a by-product of building the proposed work. <p>The proposal could result in pollution of the environment, however provided the recommended management and mitigation measures are implemented, this risk is considered unlikely to eventuate. This would be managed through appropriate waste classification, handling, storage, transport, and disposal, and through spill prevention and management. Any significant impacts are likely to be limited to the construction period.</p>	<p>Negative short-term</p>
<p>m) Any environmental problems associated with the disposal of waste?</p> <p>Waste would be classified and disposed of accordingly through an appropriately licenced waste facility. No problems associated with the disposal of waste are expected as a result of the proposal. Mitigation measures would be implemented to ensure waste is reduced, reused and recycled where practicable.</p> <p>The safeguards identified in Table 63 would reduce the extent of the impact caused through resource use and waste generation.</p>	<p>Neutral long-term</p>
<p>n) Any increased demands on resources (natural or otherwise) that are, or are likely to become, in short supply?</p> <p>The proposal would not result in increased demands on resources that are or are likely to become in short supply.</p>	<p>Nil</p>
<p>o) Any cumulative environmental effect with other existing or likely future activities?</p> <p>The proposal could lead to cumulative impacts with other nearby projects associated with vegetation clearance and loss of habitat for fauna, increased soil erosion, changes to local hydrology due to increased areas of impermeable surfaces, traffic delays during concurrent construction periods, increased demand for construction workers and accommodation services, noise and vibration, reduced visual amenity due to vegetation clearance, and dust emissions from construction.</p> <p>Most of the safeguards identified in this REF would reduce impacts arising from the proposal, thereby reducing potential cumulative impacts with other projects. Specific measures for managing potential cumulative impacts are shown in Table 75. Cumulative impacts may occur during construction, should other nearby development construction schedules conflict with the proposal. Transport would work closely with Council and developers to minimise this happening.</p> <p>Once operational, the proposed work would be considered the existing environment for future projects, and any additional impacts, particularly to native vegetation and habitat, would need to be considered.</p>	<p>Negative short-term / Neutral long-term</p>

Factor	Impact
<p data-bbox="142 210 1110 277">p) Any impact on coastal processes and coastal hazards, including those under projected climate change conditions?</p> <p data-bbox="94 327 1104 394">The proposal is located at a significant distance from the coast and would not impact coastal processes and hazards.</p>	<p data-bbox="1195 210 1235 237">Nil</p>

Matters of National Environmental Significance and Commonwealth land

Under the environmental assessment provisions of the EPBC Act, the following MNES and impacts on Commonwealth land must be considered to assist in determining whether the proposal should be referred to the DAWE.

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
<p>a) Any impact on a World Heritage property?</p> <p>The proposal would not impact on a World Heritage property.</p>	Nil
<p>b) Any impact on a National Heritage place?</p> <p>The proposal would not impact on a National Heritage place</p>	Nil
<p>c) Any impact on a wetland of international importance?</p> <p>The proposal would not impact on a wetland of international importance.</p>	Nil
<p>d) Any impact on a listed threatened species or communities?</p> <p>The proposal would result in the removal of up to 11.48ha of native vegetation that provides potential foraging and breeding habitat for 14 NSW listed threatened species and three Commonwealth listed threatened fauna species.</p> <p>The test of significance carried out as part of the Biodiversity Assessment Report (Appendix A) determined that no significant impact is likely to occur as a result of the proposed work. The impacts to listed threatened species are not considered to be significant.</p>	No significant impact expected.
<p>e) Any impacts on listed migratory species?</p> <p>No migratory species are likely to occur within the proposal area.</p>	Nil
<p>f) Any impact on a Commonwealth marine area?</p> <p>The proposal is not located nearby any Commonwealth marine areas</p>	Nil
<p>g) Does the proposal involve a nuclear action (including uranium mining)?</p> <p>The proposal does not involve a nuclear action</p>	Nil
<p>h) Additionally, any impact (direct or indirect) on the environment of Commonwealth land?</p>	Nil

Factor	Impact
The proposal would not impact Commonwealth land	

Appendix C

Statutory consultation checklists

Infrastructure SEPP

Certain development types

Development type	Description	Yes / No	If 'yes' consult with	ISEPP clause
Car Park	Does the project include a car park intended for the use by commuters using regular bus services?	No		ISEPP cl. 95A
Bus Depots	Does the project propose a bus depot?	No		ISEPP cl. 95A
Permanent road maintenance depot and associated infrastructure	Does the project propose a permanent road maintenance depot or associated infrastructure such as garages, sheds, tool houses, storage yards, training facilities and workers' amenities?	No		ISEPP cl. 95A

Development within the Coastal Zone

Issue	Description	Yes / No / NA	If 'yes' consult with	ISEPP clause
Development with impacts on certain land within the coastal zone	Is the proposal within a coastal vulnerability area and is inconsistent with a certified coastal management program applying to that land?	NA		ISEPP cl. 15A

Note: See interactive map here: <https://www.planning.nsw.gov.au/policy-and-legislation/coastal-management>. Note the coastal vulnerability area has not yet been mapped.

Note: a certified coastal zone management plan is taken to be a certified coastal management program

Council related infrastructure or services

Issue	Potential impact	Yes / No	If 'yes' consult with	ISEPP clause
Stormwater	Are the work likely to have a <i>substantial</i> impact on the stormwater management services which are provided by council?	No		ISEPP cl.13(1)(a)
Traffic	Are the work likely to generate traffic to an extent that will <i>strain</i> the capacity of the existing road system in a local government area?	No		ISEPP cl.13(1)(b)
Sewerage system	Will the work involve connection to a council owned sewerage system? If so, will this connection have a <i>substantial</i> impact on the capacity of any part of the system?	No		ISEPP cl.13(1)(c)

Issue	Potential impact	Yes / No	If 'yes' consult with	ISEPP clause
Water usage	Will the work involve connection to a council owned water supply system? If so, will this require the use of a <i>substantial</i> volume of water?	No		ISEPP cl.13(1)(d)
Temporary structures	Will the work involve the installation of a temporary structure on, or the enclosing of, a public place which is under local council management or control? If so, will this cause more than a <i>minor</i> or <i>inconsequential</i> disruption to pedestrian or vehicular flow?	No		ISEPP cl.13(1)(e)
Road & footpath excavation	Will the work involve more than <i>minor</i> or <i>inconsequential</i> excavation of a road or footpath for which council is the roads authority and responsible for maintenance?	Yes	Wagga Wagga City Council	ISEPP cl.13(1)(f)

Local heritage items

Issue	Potential impact	Yes / No	If 'yes' consult with	ISEPP clause
Local heritage	Is there is a local heritage item (that is not also a State heritage item) or a heritage conservation area in the study area for the work? If yes, does a heritage assessment indicate the potential impacts to the heritage significance of the item/area are more than <i>minor</i> or <i>inconsequential</i> ?	No		ISEPP cl.14

Flood liable land

Issue	Potential impact	Yes / No	If 'yes' consult with	ISEPP clause
Flood liable land	Are the work located on flood liable land? If so, will the work change flood patterns to more than a <i>minor</i> extent?	Yes	Wagga Wagga City Council	ISEPP cl.15
Flood liable land	Are the work located on flood liable land? (to any extent). If so, do the work comprise more than minor alterations or additions to, or the demolition of, a building, emergency work or routine maintenance	Yes	State Emergency Services Email: erm@ses.nsw.gov.au	ISEPP cl.15AA

Note: Flood liable land means land that is susceptible to flooding by the probable maximum flood event, identified in accordance with the principles set out in the manual entitled *Floodplain Development Manual: the management of flood liable land* published by the New South Wales Government.

Public authorities other than councils

Issue	Potential impact	Yes / No	If 'yes' consult with	ISEPP clause
National parks and reserves	Is the work next to a national park or nature reserve, or other area reserved under the <i>National Parks and Wildlife Act 1974</i> , or on land acquired under that Act?	No	Environment, Energy and Science, DPIE	ISEPP cl.16(2)(a)
National parks and reserves	Is the work on land in Zone E1 National Parks and Nature Reserves or in a land use zone equivalent to that zone?	No	Environment, Energy and Science, DPIE	ISEPP cl. 16(2)(b)
Aquatic reserves	Is the work next to an aquatic reserve or a marine park declared under the <i>Marine Estate Management Act 2014</i> ?	No	Department of Planning, Industry and Environment	ISEPP cl.16(2)(c)
Sydney Harbour foreshore	Is the work in the Sydney Harbour Foreshore Area as defined by the <i>Sydney Harbour Foreshore Authority Act 1998</i> ?	No	Property NSW	ISEPP cl.16(2)(d)
Bush fire prone land	Is the work for the purpose of residential development, an educational establishment, a health services facility, a correctional centre or group home in bush fire prone land?	No	Rural Fire Service	ISEPP cl.16(2)(f)
Artificial light	Would the work increase the amount of artificial light in the night sky and that is on land within the dark sky region as identified on the dark sky region map? (Note: the dark sky region is within 200km of the Siding Spring Observatory)	No	Director of the Siding Spring Observatory	ISEPP cl.16(2)(g)
Defence communications buffer land	Is the work on buffer land around the defence communications facility near Morundah? (Note: refer to Defence Communications Facility Buffer Map referred to in Clause 5.15 of Lockhart LEP 2012, Narrandera LEP 2013 and Urana LEP 2011.	No	Secretary of the Commonwealth Department of Defence	ISEPP cl. 16(2)(h)
Mine subsidence land	Is the work on land in a mine subsidence district within the meaning of the <i>Mine Subsidence Compensation Act 1961</i> ?	No	Mine Subsidence Board	ISEPP cl. 16(2)(i)

Growth Centres SEPP

Issue	Potential impact	Yes / No	If 'yes' consult with	ISEPP clause
Clearing native vegetation	Do the work involve clearing native vegetation (as defined in the <i>Local Land Services Act 2013</i>) on land that is not subject land (as defined in cl 17 of schedule 7 of the <i>Threatened Species Conservation Act 1995</i>)?	No	Department of Planning, Industry and Environment	SEPP 18A