

NSW GOVERNMENT Department of Planning

Contact:Caitlin BennettPhone:(02) 9228 6197Fax:(02) 9228 6355Email:caitlin.bennett@planning.nsw.gov.au

Our ref: 9043171

Mr Les Wielinga Chief Executive NSW Roads and Traffic Authority PO Box K198 HAYMARKET NSW 1238

Dear Mr Wielinga

#### Director-General's Requirements for the Environmental Assessment of Proposed Hume Highway Duplication

The Department has received your application for the proposed Hume Highway Duplication Project consisting of five segments between the Sturt Highway and Mullengandra (Application Numbers: 06\_0245 – 06\_0249).

I have attached a copy of the Director-General's requirements (DGRs) for the environmental assessment of the project. These requirements have been prepared following the Planning Focus Meeting held on Wednesday, 23 August 2006 and in consultation with the relevant government agencies including councils.

It should be noted that the Director-General's requirements have been prepared based on the information provided to date. Under section 75F(3) of the Act, the Director-General may alter or supplement these requirements if necessary and in light of any additional information that may be provided prior to the proponent seeking approval for the project.

I would appreciate it if you would contact the Department at least two weeks before you propose to submit the Environmental Assessment for the project to determine:

- the fees applicable to the application;
- relevant land owner notification requirements;
- consultation and public exhibition arrangements that will apply;
- options available in publishing the Environmental Assessment via the Internet; and
- number and format (hard-copy or CD-ROM) of the Environmental Assessment that will be required.

Prior to exhibiting the Environmental Assessment, the Department will review the document to determine if it adequately addresses the DGRs. The Department will consult with other relevant government agencies in making this decision. If the Director-General considers that the Environmental Assessment does not adequately address the DGRs, the Director-General may require the proponent to revise the Environmental Assessment to address the matters notified to the proponent. Following this review period the Environmental Assessment will be made publicly available for a minimum period of 30 days.

If your proposal includes any actions that could have a significant impact on matters of National Environmental Significance, it will require an additional approval under the Commonwealth *Environment Protection Biodiversity Conservation Act 1999* (EPBC Act). This approval would be in addition to any approvals required under NSW legislation. If you have any questions about the application of the EPBC Act to your proposal, you should contact the Commonwealth Department of Environment and Heritage in Canberra (6274 1111 or http://www.deh.gov.au).

If you have any enquiries about these requirements, please contact Lisa Mitchell, A/ Director, Major Infrastructure Assessments on 02 9228 6354.

Yours sincerely

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Volande Stone 9/10/06 A/ Executive Director As delegate for the Director-General

Application number	06_0245
Project	Hume Highway Duplication Project
	The proposed Project involves the upgrade of segment referred to as 'Sturt Highway to Tarcutta', located within the Wagga Wagga Local Government Area, to achieve four lanes of dual carriageway.
Location	Sturt Highway to Tarcutta, from approximately 37 kilometres south of Gundagai to approximately 43 kilometres south of Gundagai.
Proponent	NSW Roads and Traffic Authority
Date issued	10 October 2006
Expiry date	10 October 2008
General requirements	<ul> <li>The Environmental Assessment (EA) must include the following: <ol> <li>an executive summary.</li> </ol> </li> <li>a detailed description of the project including the: <ul> <li>need for and objectives of the project;</li> <li>alternatives considered and justification for the preferred option (including an assessment of the environmental costs and benefits of the project relative to alternatives); and</li> <li>various components and potential staging of the project.</li> </ul> </li> <li>an environmental risk analysis identifying the potential environmental impacts associated with the project and taking into account issues raised during consultation (Note: where the risk analysis identifies additional key issues, an appropriately detailed impact assessment of these additional key environmental impacts must be included in the EA).</li> <li>an assessment of the key issue (where relevant): <ul> <li>describe the existing environment</li> <li>an assessment of the potential impacts of the proposal (at both construction and operation stages);</li> <li>identify any planning, land use, development related assumption or modelling used in impact prediction and/ or developing management &amp; mitigation commitments; and</li> <li>describe measures to be implemented to avoid, minimise, manage, mitigate, offset and/or monitor the impacts of the project and the residual impacts.</li> </ul> </li> <li>a draft Statement of Commitments, outlining environmental management, social and economic impacts the proposal; the suitability of the site; and whether or not the project is in the public interest.</li> </ul>
Key issues	<ul> <li>Biodiversity</li> <li>Identification of biodiversity impacts and ecological performance, including direct and indirect impacts on habitat and flora and fauna (including threatened and protected species, populations and Endangered Ecological Communities).</li> <li>Advice should be given on cumulative impacts on communities in the region, identification and protection of key habitats and corridors, riparian zone impacts.</li> <li>Identification of mitigation and monitoring measures, particularly measures that provide a coordinated approach towards the mitigation of biodiversity</li> </ul>

	impacts across the project corridor.
	<ul> <li>Heritage</li> <li>Identify and assess the significance of indigenous and non-indigenous heritage and natural areas impacted directly or indirectly, including potential archaeological deposits. The State Heritage Inventory and other applicable heritage listings should be consulted. Affected items are to be identified by field survey.</li> <li>Assess potential impacts on identified items and natural areas of heritage significance, and where necessary include a Statement of Heritage Impact Assessment.</li> <li>Demonstrate that effective Aboriginal community consultation has been undertaken in determining and assessing impacts, developing options and making final recommendations.</li> </ul>
	<ul> <li>Cumulative Assessment</li> <li>Identification of cumulative impacts resulting from the total project, and how the impacts would be mitigated and/or managed consistently across the Hume Highway Project corridor.</li> <li>This should include (but is not limited to): <ul> <li>changes to regional and local road network access, behavioural road usage, safety and performance</li> <li>construction traffic management (including management of regional and local passenger vehicle and freight movements)</li> <li>biodiversity</li> <li>management of required changes to property access</li> </ul> </li> </ul>
	<ul> <li>Resource Management         <ul> <li>identification of the extractive material needs of the project, particularly with respect to any extractive material activities outside the project corridor that would be undertaken as part of this project. Such activities are to be supported by an impact assessment with details on management, closure and rehabilitation of these areas.</li> </ul> </li> </ul>
	<ul> <li>Hydrology</li> <li>Identification of areas prone to flooding, salinity and/or waterlogging along the project corridor, with an appropriate level of assessment of the potential impacts on flooding behaviour and groundwater as a result of the project.</li> <li>Outline of the management or design measures to mitigate and/or manage any impact, including impacts on adjoining properties.</li> </ul>
Consultation	<ul> <li>You should undertake an appropriate and justified level of consultation with relevant parties during the preparation of the EA, including:</li> <li>local, State or Commonwealth government authorities and service providers; and</li> <li>the public (including community groups or affected landowners) - document all community consultation undertaken to date or discuss the proposed strategy for undertaking community consultation. This should include any contingencies for addressing any issues arising from the community consultation and an effective communications strategy.</li> </ul>
	The consultation process and the issues raised should be described in the Environmental Assessment

Application number	06_0246
Project	Hume Highway Duplication Project
	The proposed Project involves the upgrade of segment referred to as 'Kyeamba Hill', located within the Wagga Wagga Local Government Area, to achieve four lanes of dual carriageway.
Location	Kyeamba Hill, from approximately 67 kilometres south of Gundagai to approximately 76 kilometres south of Gundagai.
Proponent	NSW Roads and Traffic Authority
Date issued	10 October 2006
Expiry date	10 October 2008
General requirements	<ul> <li>The Environmental Assessment (EA) must include the following: <ol> <li>an executive summary.</li> </ol> </li> <li>a detailed description of the project including the: <ul> <li>need for and objectives of the project;</li> <li>alternatives considered and justification for the preferred option (including an assessment of the environmental costs and benefits of the project relative to alternatives); and</li> <li>various components and potential staging of the project.</li> </ul> </li> <li>an environmental risk analysis identifying the potential environmental impacts associated with the project and taking into account issues raised during consultation (Note: where the risk analysis identifies additional key issues, an appropriately detailed impact assessment of these additional key environmental impacts must be included in the EA).</li> <li>an assessment of the key issue specified below, with the following aspects addressed for each key issue (where relevant): <ul> <li>describe the existing environment</li> <li>an assessment of the potential impacts of the proposal (at both construction and operation stages);</li> <li>identify any planning, land use, development related assumption or modelling used in impact prediction and/ or developing management &amp; mitigation commitments; and</li> <li>describe measures to be implemented to avoid, minimise, manage, mitigate, offset and/or monitor the impacts of the project and the residual impacts.</li> </ul> </li> <li>a conclusion justifying the project taking into consideration the environmental, social and economic impacts the proposal; the suitability of the site; and whether or not the project is in the public interest.</li> </ul>
Key issues	<ul> <li>Biodiversity</li> <li>Identification of biodiversity impacts and ecological performance, including direct and indirect impacts on habitat, flora and fauna (including threatened and protected species, populations and Endangered Ecological Communities).</li> <li>Details should be given on the cumulative impacts on communities in the region, identification and protection of key habitats and corridors, riparian zone impacts.</li> <li>Identification of the impacts of the route on biodiversity within Travelling Stock Route 74, and details on how these impacts would be mitigated and/or managed.</li> </ul>

Deemed refusal period	• 120 days
Consultation	<ul> <li>You should undertake an appropriate and justified level of consultation with relevant parties during the preparation of the EA, including:</li> <li>local, State or Commonwealth government authorities and service providers; and</li> <li>the public (including community groups or affected landowners) - document all community consultation undertaken to date or discuss the proposed strategy for undertaking community consultation. This should include any contingencies for addressing any issues arising from the community consultation and an effective communications strategy.</li> <li>The consultation process and the issues raised should be described in the Environmental Assessment</li> </ul>
	<ul> <li>supported by an impact assessment with details on management, close and rehabilitation of these areas.</li> <li>Hydrology <ul> <li>Identification of areas prone to flooding, salinity and/or waterlogging al the project corridor, with an appropriate level of assessment of the potential impacts on flooding behaviour and groundwater as a result of project.</li> <li>Outline of the management or design measures to mitigate and/or management, including impacts on adjoining properties.</li> </ul> </li> </ul>
	<ul> <li>Resource Management</li> <li>identification of the extractive material needs of the project, particularly with respect to any extractive material activities outside the project cor that would be undertaken as part of this project. Such activities are to</li> </ul>
	<ul> <li>identified by field survey.</li> <li>Assess potential impacts on identified items and natural areas of herita significance, and where necessary include a Statement of Heritage Im Assessment.</li> <li>Demonstrate that effective Aboriginal community consultation has bee undertaken in determining and assessing impacts, developing options making final recommendations.</li> <li>Cumulative Assessment <ul> <li>Identification of cumulative impacts resulting from the total project, and how the impacts would be mitigated and/or managed consistently acro the Hume Highway Project corridor.</li> <li>This should include (but is not limited to): <ul> <li>changes to regional and local road network access, behavioural rousage, safety and performance</li> <li>construction traffic management (including management of region and local passenger vehicle and freight movements)</li> <li>biodiversity</li> <li>management of required changes to property access</li> </ul> </li> </ul></li></ul>
	<ul> <li>Heritage</li> <li>Identify and assess the significance of indigenous and non-indigenous heritage and natural areas impacted directly or indirectly, including potential archaeological deposits. The State Heritage Inventory and ot applicable heritage listings should be consulted. Affected items are to</li> </ul>
	<ul> <li>Identification of mitigation and monitoring measures, particularly measures that provide a coordinated approach towards the mitigation of biodivers impacts across the project corridor.</li> </ul>

Application number	06_0247
Project	Hume Highway Duplication Project
	The proposed Project involves the upgrade of segment referred to as 'Little Billabong', located within the Greater Hume Local Government Area, to achieve four lanes of dual carriageway.
Location	Little Billabong, from approximately 85 kilometres south of Gundagai to approximately 93 kilometres south of Gundagai
Proponent	NSW Roads and Traffic Authority
Date issued	10 October 2006
Expiry date	10 October 2008
General requirements	<ul> <li>The Environmental Assessment (EA) must include the following: <ol> <li>a executive summary.</li> <li>a detailed description of the project including the: <ul> <li>need for and objectives of the project;</li> <li>alternatives considered and justification for the preferred option (including an assessment of the environmental costs and benefits of the project relative to alternatives); and</li> <li>various components and potential staging of the project.</li> </ul> </li> <li>an environmental risk analysis identifying the potential environmental impacts associated with the project and taking into account issues raised during consultation (Note: where the risk analysis identifies additional key issues, an appropriately detailed impact assessment of these additional key environmental impacts must be included in the EA).</li> <li>an assessment of the key issues specified below, with the following aspects addressed for each key issue (where relevant): <ul> <li>describe the existing environment</li> <li>an assessment of the potential impacts of the proposal (at both construction and operation stages);</li> <li>identify any planning, land use, development related assumption or modelling used in impact prediction and/ or developing management &amp; mitigation commitments; and</li> <li>describe measures to be implemented to avoid, minimise, manage, mitigate, offset and/or monitor the impacts of the project and the residual impacts.</li> </ul> </li> <li>a conclusion justifying the project taking into consideration the environmental management, mitigation and monitoring measures.</li> <li>a conclusion justifying the project taking into consideration the environmental, social and economic impacts the proposal; the suitability of the site; and whether or not the project is in the public interest.</li> </ol></li></ul>
Key issues	<ul> <li>Biodiversity <ul> <li>Identification of biodiversity impacts and ecological performance, including direct and indirect impacts on habitat, flora and fauna (including threatened and protected species, populations and Endangered Ecological Communities).</li> <li>Details should be given on the cumulative impacts on communities in the region, identification and protection of key habitats and corridors, riparian zone impacts.</li> <li>Identification of mitigation and monitoring measures, particularly measures that provide a coordinated approach towards the mitigation of biodiversity impacts across the project corridor.</li> </ul> </li> </ul>

Consultation	<ul> <li>Heritage <ul> <li>Identify and assess the significance of indigenous and non-indigenous heritage and natural areas impacted directly or indirectly, including potential archaeological deposits. Affected items are to be identified by field survey.</li> <li>Assess potential impacts on identified items and natural areas of heritage significance.</li> <li>Demonstrate that effective Aboriginal community consultation has been undertaken in determining and assessing impacts, developing options and making final recommendations.</li> </ul> </li> <li>Cumulative Assessment <ul> <li>Identification of cumulative impacts resulting from the total project, and how the impacts would be mitigated and/or managed consistently across the Hume Highway Project corridor.</li> <li>This should include (but is not limited to):     <ul> <li>changes to regional and local road network access, behavioural road usage, safety and performance</li> <li>construction traffic management (including management of regional and local passenger vehicle and freight movements)</li> <li>biodiversity</li> <li>management of required changes to property access</li> </ul> </li> <li>Resource Management <ul> <li>Identification of the extractive material needs of the project, particularly with respect to any extractive material activities outside the project corridor that would be undertaken as part of this project. Such activities are to be supported by an impact assessment with details on management, closure and rehabilitation of these areas.</li> </ul> </li> <li>Hydrology <ul> <li>Identification of areas prone to flooding, salinity and/or waterlogging along the project.</li> <li>Outline of the management or design measures to mitigate and/or manage any impact, including impacts on adjoining properties.</li> </ul> </li> <li>You should undertake an appropriate and justified level of consultation with relevant parties during the preparation of the EA, including:     <ul> <li>local, State or Commonwealth government authorities and service providers; and</li></ul></li></ul></li></ul>
Deemed refusal period	include any contingencies for addressing any issues arising from the

Application number	06_0248
Project	Hume Highway Duplication Project
	The proposed Project involves the upgrade of segment referred to as 'Yarra Yarra to Holbrook', located within the Greater Hume Local Government Area, to achieve four lanes of dual carriageway.
Location	Yarra Yarra to Holbrook, from approximately 98 kilometres south of Gundagai to approximately 110 kilometres south of Gundagai
Proponent	NSW Roads and Traffic Authority
Date issued	10 October 2006
Expiry date	10 October 2008
General requirements	<ul> <li>The Environmental Assessment (EA) must include the following: <ol> <li>an executive summary.</li> <li>a detailed description of the project including the: <ul> <li>need for and objectives of the project;</li> <li>alternatives considered and justification for the preferred option (including an assessment of the environmental costs and benefits of the project relative to alternatives); and</li> <li>various components and potential staging of the project.</li> </ul> </li> <li>an environmental risk analysis identifying the potential environmental impacts associated with the project and taking into account issues raised during consultation (Note: where the risk analysis identifies additional key issues, an appropriately detailed impact assessment of these additional key environmental impacts must be included in the EA).</li> <li>an assessment of the key issues specified below, with the following aspects addressed for each key issue (where relevant): <ul> <li>describe the existing environment</li> <li>an assessment of the potential impacts of the proposal (at both construction and operation stages);</li> <li>identify any planning, land use, development related assumption or modelling used in impact prediction and/ or developing management &amp; mitigation commitments; and</li> <li>describe measures to be implemented to avoid, minimise, manage, mitigate, offset and/or monitor the impacts of the project and the residual impacts.</li> </ul> </li> <li>a conclusion justifying the project taking into consideration the environmental management, mitigation and monitoring measures.</li> <li>a conclusion justifying the project taking into consideration the environmental, social and economic impacts the proposal; the suitability of the site; and whether or not the project is in the public interest.</li> </ol></li></ul>
Key issues	<ul> <li>Biodiversity</li> <li>Identification of biodiversity impacts and ecological performance, including direct and indirect impacts on habitat, flora and fauna (including threatened and protected species, populations and Endangered Ecologica Communities).</li> <li>Details should be given on the cumulative impacts on communities in the region, identification and protection of key habitats and corridors, riparian zone impacts.</li> <li>Identification of mitigation and monitoring measures, particularly measures that provide a coordinated approach towards the mitigation of biodiversity impacts across the project corridor.</li> </ul>

	heritage and natural areas impacted directly or indirectly, including potential archaeological deposits. The State Heritage Inventory and other
	applicable heritage listings should be consulted. Affected items are to be
	<ul> <li>identified by field survey.</li> <li>Assess potential impacts on identified items and natural areas of heritage significance, and where necessary include a Statement of Heritage Impact Assessment.</li> </ul>
	Demonstrate that effective Aboriginal community consultation has been undertaken in determining and assessing impacts, developing options and making final recommendations.
	Cumulative Assessment
	• Identification of cumulative impacts resulting from the total project, and how the impacts would be mitigated and/or managed consistently across the Hume Highway Project corridor.
	<ul> <li>This should include (but is not limited to):</li> <li>changes to regional and local road network access, behavioural road</li> </ul>
	<ul> <li>usage, safety and performance</li> <li>construction traffic management (including management of regional and local passenger vehicle and freight movements)</li> <li>biodiversity</li> </ul>
	<ul> <li>management of required changes to property access</li> </ul>
	Resource Management
	<ul> <li>identification of the extractive material needs of the project, particularly with respect to any extractive material activities outside the project corridor that would be undertaken as part of this project. Such activities are to be supported by an impact assessment with details on management, closure and rehabilitation of these areas.</li> </ul>
	Hydrology
	<ul> <li>Identification of areas prone to flooding, salinity and/or waterlogging along the project corridor, with an appropriate level of assessment of the potential impacts on flooding behaviour and groundwater as a result of the project.</li> </ul>
	<ul> <li>Outline of the management or design measures to mitigate and/or manage any impact, including impacts on adjoining properties.</li> </ul>
Consultation	You should undertake an appropriate and justified level of consultation with relevant parties during the preparation of the EA, including:
	<ul> <li>local, State or Commonwealth government authorities and service providers; and</li> </ul>
	• the public (including community groups or affected landowners) - document all community consultation undertaken to date or discuss the proposed strategy for undertaking community consultation. This should include any contingencies for addressing any issues arising from the community consultation and an effective communications strategy.
	The consultation process and the issues raised should be described in the
	Environmental Assessment

Application number	06_0249
Project	Hume Highway Duplication Project
	The proposed Project involves the upgrade of segment referred to as 'Woomargama to Mullengandra', located within the Greater Hume Local Government Area, to achieve four lanes of dual carriageway.
Location	Woomargama to Mullengandra, from approximately 131 kilometres south of Gundagai to approximately 141 kilometres south of Gundagai
Proponent	NSW Roads and Traffic Authority
Date issued	10 October 2006
Expiry date	10 October 2008
General requirements	<ul> <li>The Environmental Assessment (EA) must include the following: <ol> <li>an executive summary.</li> <li>a detailed description of the project including the: <ul> <li>need for and objectives of the project;</li> <li>alternatives considered and justification for the preferred option (including an assessment of the environmental costs and benefits of the project relative to alternatives); and</li> <li>various components and potential staging of the project.</li> </ul> </li> <li>an environmental risk analysis identifying the potential environmental impacts associated with the project and taking into account issues raised during consultation (Note: where the risk analysis identifies additional key issues, an appropriately detailed impact assessment of these additional key environmental impacts must be included in the EA).</li> </ol></li></ul> <li>an assessment of the key issue specified below, with the following aspects addressed for each key issue (where relevant): <ul> <li>describe the existing environment</li> <li>an assessment of the potential impacts of the proposal (at both construction and operation stages);</li> <li>identify any planning, land use, development related assumption or modelling used in impact prediction and/ or developing management &amp; mitigation commitments; and</li> <li>describe measures to be implemented to avoid, minimise, manage, mitigate, offset and/or monitor the impacts of the project and the residual impacts.</li> </ul> </li> <li>a conclusion justifying the project taking into consideration the environmental, social and economic impacts the proposal; the suitability of the site; and whether or not the project is in the public interest.</li>
Key issues	<ul> <li>Biodiversity</li> <li>Identification of biodiversity impacts and ecological performance, including direct and indirect impacts on habitat, flora and fauna (including threatened and protected species, populations and Endangered Ecologica Communities) and aquatic/riparian habitats.</li> <li>Details should be given on the cumulative impacts on communities in the region, identification and protection of key habitats and corridors, riparian zone impacts.</li> <li>Identification of the impacts of the route on habitat provided within Travelling Stock Route 16 (Blue Metal), and details on how these impacts would be mitigated and/or managed.</li> <li>Identification of mitigation and monitoring measures, particularly measures that provide a coordinated approach towards the mitigation of biodiversity impacts across the project corridor.</li> </ul>

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	<ul> <li>Heritage</li> <li>Identify and assess the significance of indigenous and non-indigenous heritage and natural areas impacted directly or indirectly, including potential archaeological deposits. The State Heritage Inventory and other applicable heritage listings should be consulted. Affected items are to be identified by field survey.</li> <li>Assess potential impacts on identified items and natural areas of heritage significance, and where necessary include a Statement of Heritage Impact Assessment.</li> <li>Demonstrate that effective Aboriginal community consultation has been undertaken in determining and assessing impacts, developing options and making final recommendations.</li> </ul>
	<ul> <li>Cumulative Assessment</li> <li>Identification of cumulative impacts resulting from the total project, and how the impacts would be mitigated and/or managed consistently across the Hume Highway Project corridor.</li> <li>This should include (but is not limited to): <ul> <li>changes to regional and local road network access, behavioural road usage, safety and performance</li> <li>construction traffic management (including management of regional and local passenger vehicle and freight movements)</li> <li>biodiversity</li> <li>management of required changes to property access.</li> </ul> </li> </ul>
	<ul> <li>Resource Management</li> <li>identification of the extractive material needs of the project, particularly with respect to any extractive material activities outside the project corridor that would be undertaken as part of this project. Such activities are to be supported by an impact assessment with details on management, closure and rehabilitation of these areas.</li> </ul>
	<ul> <li>Hydrology</li> <li>Identification of areas prone to flooding, salinity and/or waterlogging along the project corridor, with an appropriate level of assessment of the potential impacts on flooding behaviour and groundwater as a result of the project.</li> <li>Outline of the management or design measures to mitigate and/or manage any impact, including impacts on adjoining properties.</li> </ul>
	<ul> <li>Noise</li> <li>Identify any residential and sensitive receptors along the project corridor, and provide an appropriate level of assessment of the potential noise and vibration impacts on these receptors. This assessment/management regime should reflect any potential for construction activities to be conducted outside standard hours.</li> </ul>
Consultation	<ul> <li>You should undertake an appropriate and justified level of consultation with relevant parties during the preparation of the EA, including:</li> <li>local, State or Commonwealth government authorities and service providers; and</li> <li>the public (including community groups or affected landowners) - document all community consultation undertaken to date or discuss the proposed strategy for undertaking community consultation. This should include any contingencies for addressing any issues arising from the community consultation and an effective communications strategy.</li> </ul>
	The consultation process and the issues raised should be described in the Environmental Assessment
Deemed refusal period	• 120 days