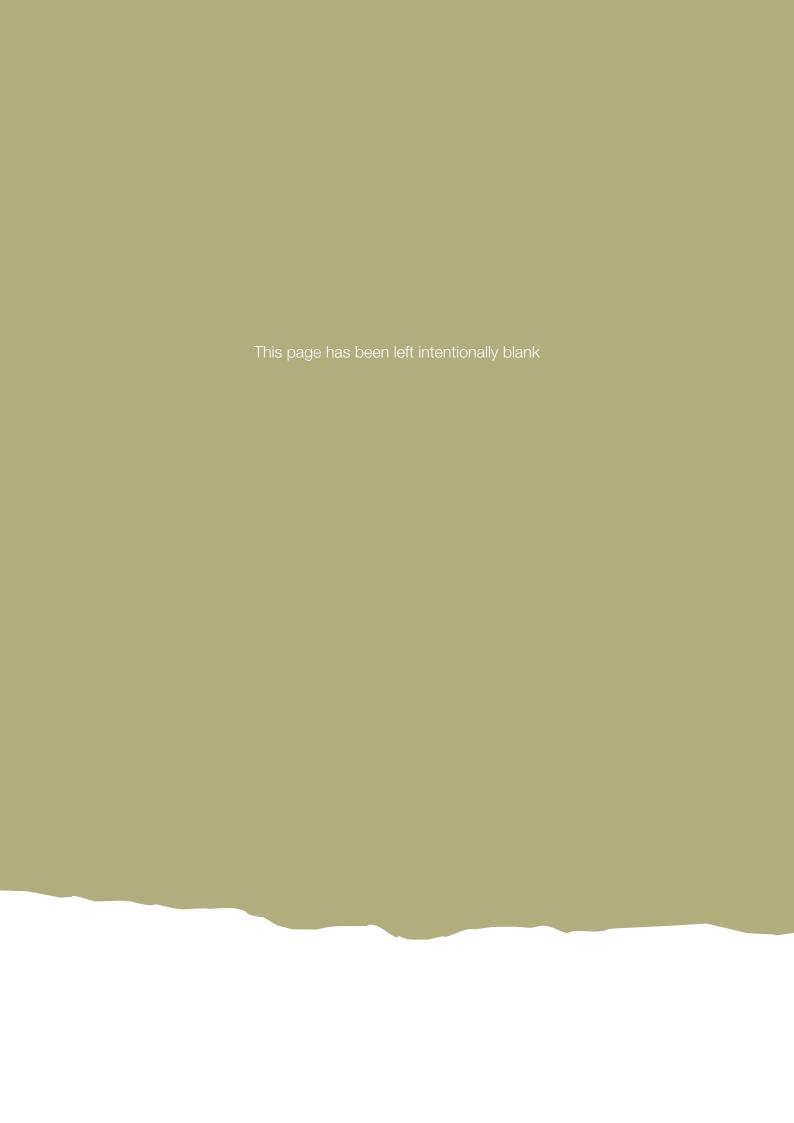
Appendix C Draft EIS Guidelines Cross Reference Table





Cross Reference of EIS Guidelines with Draft EIS Content

Cross Reference of EIS Guidelines with Draft EIS Content	
Guidelines	EIS Section
Specific Content Requirements	
The following content requirements are based on the Guidelines established the Environmental Assessment Act (1982) of the Northern Territory.	l in accordance with clause 8 of
1. EXECUTIVE SUMMARY	Executive Summary
The Executive Summary should include a brief outline of the project and each chapter of the draft EIS, allowing the reader to obtain a clear understanding of the proposed project, its environmental implications and management objectives.	
The Executive Summary should be written as a stand-alone document, able to be reproduced on request by interested parties who may not wish to read or purchase the draft EIS as a whole.	
2 THE PROPOSAL	Section 4
2.1 General Information	
The EIS must provide detail of the proposed wellhead platform (WMP), processing facility	
locations, pipeline route (including associated ancillary activity sites) and surrounding	
environment to place the proposal in its local, regional and national context. As a minimum	
the EIS should include the following:	
An explanation of the objectives , benefits and justification for the Project	Section 2
Meteorological data	Section 7.2.2
	Section 8.2.2
Topography and Bathymetry	Section 7.2.3
	Section 8.2.3
Surrounding landuses (including location of residential properties, communities, military reserves, exercise areas, extractive industries, road reserves)	Section 9.2 - 9.8
Description of any relevant local government or Northern Territory Planning Schemes, local laws; Territory, Australian Government and International policies, legislation and treaties and other applicable policies	Section 1.8–1.10
Identification of any development approvals or infrastructure proposals likely to be required or affected by the proposal	Section 1.4, 9.2
How the action related to any other actions that have been or are being taken or that have been approved in the region affected by the action	Section 1.4
Areas under native title claims and determinations of native title	Section 1.10, Section 9.9- 9.10
Substrate and soil types and properties along the pipeline route (including composition, presence of acid sulphate soils, etc)	Section 8.2.3, Section 7.2.5
Ecological information including flora and fauna in both terrestrial and marine environments	Section 7.3 Section 8.3

Cross Reference of EIS Guidelines with Draft EIS Content	
Guidelines	EIS Section
Availability of services/infrastructure and accessibility	Section 4.5.10
	Section 4.6.5
	Section 4.7.5
	Section 4.8
	Section 9.4
Reference to planning issue such as land tenure, zoning, time frames,	Section 9.2
potential for additional development and the lifespan of the project.	Section 1.10
	Section 4.3
	Section 1.2
2.2 Description of the Proposal	Section 4
This section should identify all the processes and activities intended for the proposed well head platform, pipeline (and associated ancillary activities) and processing facilities during the life of the project. This should include details of:	
The size and type of the operation, the nature of the processes, products and by products'	Section 4.1
Propose lay out for all operations, both onshore and offshore, including the	Section 4.2
WMP, gas processing case and pipeline. Including the location and or/frequency of spur lines, cathodic protection points, sales taps, compressor stations control valves (isolation points), and any other project facilities and linkages to existing gas pipelines	Section 4.5
The pipeline route (including all condensate pipelines), easements (including widths and access requirements) and alternative routes. In the event that the pipeline or structures may need to be constructed above ground at the shore crossing, define the reason and the locality	Section 4.5.4 - 4.5.7
All associated ancillary activities, including materials storage areas, access	Section 4.5.10- 4.5.13
roads, construction camps, etc	Section 4.8
All equipment, production processes and methods intended for the development	Section 4.7.1-4.7.2
Measures to minimise the potential for third party interference	Section 4.8.5
	Section 4.8.10
All chemicals, including fuels and the proposed methods for transportation,	Section 4.8.2
storage, use and emergency management of these substances	Section 12.5
Project schedule	Section 4.3
The proposed tenure under which the various components and stages of	Section 1.8
the project would be held. Details of any Territory or Commonwealth	Section 1.10
egislative processes required to grant the proposed tenure should also be discussed.	Appendix B
	Section 4.5.11
Naste generation and/or by products and their storage and disposal	
	Section 4.8.9
	Section 6.1 - 6.2
	Section 11.20
	Section 12.5
Platform, pipeline and gas processing case design with regards to relevant Australian Standards and other legislative requirements, and design	Section 1.8.3
imitations imposed by site characteristics	Section 4.5.3 - 4.5.9

Guidelines	EIS Section
Employment opportunities (directly and indirectly, including aboriginal	Section 2.2.3
people) at the different stages of the Project (construction and operation), ikely sources of the workforce and the level of skill required	Section 13.12
he accommodation and requirements and arrangements for both	Section 4.5.13
onstruction and maintenance activities and any associated infrastructure nd services	Section 4.6.6
id Services	Section 4.7.7
Transport systems, methods and routes for delivering construction and	Section 4.5.10
aintenance materials and other necessary goods and consumables. formation on the use of and impact on port, road, air, and rail networks is	Section 4.6.5
quired for the construction and operation phases	Section 4.7.5
	Section 9.4
	Section 13.3
ne use and extent of other infrastructure required for the project including at not limited to gas, telecommunications and power. This includes etails of water supply, source, treatment and usage for both the construction and operational workforce, and pipeline testing	Section 4.8
Construction, Operation and Decommissioning	Section 4
Tellhead platform, pipeline and gas processing case construction and peline laying methods including the plant and machinery likely to be volved in both the marine environmental and onshore. Including details materials used for construction (including source and potential for ontaminants	Section 4.4–4.5
The anticipated timing, duration and progress of construction activities	Section 4.3
ssible interruptions to other activities eg interruption to roads and	Section 11.2
shipping traffic	Sections 13.3
	Section 13.5
ovision and location of service corridors	Section 13.5 Section 4.1
ovision and location of service corridors	
ovision and location of service corridors	Section 4.1
ovision and location of service corridors	Section 4.1 Section 4.5.10
tails of operation, safety and maintenance procedures, including	Section 4.1 Section 4.5.10 Section 4.6.5 Section 4.7.5
etails of operation, safety and maintenance procedures, including onitoring, provisions, for the shutdown of facilities, and the pipeline or/or eventing of gas, in the event of leakage of gas, as well as provisions for	Section 4.1 Section 4.5.10 Section 4.6.5 Section 4.7.5
etails of operation, safety and maintenance procedures, including onitoring, provisions, for the shutdown of facilities, and the pipeline or/or eventing of gas, in the event of leakage of gas, as well as provisions for blic safety in such circumstances	Section 4.1 Section 4.5.10 Section 4.6.5 Section 4.7.5 Section 4.7
etails of operation, safety and maintenance procedures, including conitoring, provisions, for the shutdown of facilities, and the pipeline or/or eventing of gas, in the event of leakage of gas, as well as provisions for ablic safety in such circumstances ecommissioning methodologies and possible future uses of the pipeline and the offshore and onshore facilities. This should include ecommissioning and rehabilitation timetable for both temporary and termanent facilities	Section 4.1 Section 4.5.10 Section 4.6.5 Section 4.7.5 Section 4.7 Section 16
rails of operation, safety and maintenance procedures, including intoring, provisions, for the shutdown of facilities, and the pipeline or/or venting of gas, in the event of leakage of gas, as well as provisions for olic safety in such circumstances commissioning methodologies and possible future uses of the pipeline of the offshore and onshore facilities. This should include commissioning and rehabilitation timetable for both temporary and	Section 4.1 Section 4.5.10 Section 4.6.5 Section 4.7.5 Section 4.7 Section 16 Section 4.9

Cross Reference of EIS Guidelines with Draft EIS Content	
Guidelines	EIS Section
3. ALTERNATIVES Alternative proposals, which may still allow the objectives of the project to be met, should be discussed, detailing reasons for the selection and rejection of particular options. The selection criteria should be discussed and the advantages and disadvantages of preferred options and alternatives detailed. The potential beneficial and adverse impacts of the alternatives should also be described. A comparative description of the impacts of each alternative on the matters protected by the Controlling provisions (under the EPBC Act) for the action. The short-, medium- and long-term advantages and disadvantages of the options should also be considered.	Section 5
Alternatives to be discussed should include:	
Not proceeding with the Project	Section 5.2
Alternative routes for the pipeline, both onshore and offshore Alternative locations for the components of proposal (eg offshore and	Section 5.5 Section 5.7 Section 5.3–5.4
onshore facilities)	Section 5.8–5.9
Alternative gas processing scenarios, onshore or offshore	Section 5.3
Alternative environmental management techniques	Section 5.9
4. Existing Environment, Potential Impacts and Environmental Safeguards	
Studies to describe the existing environment should be of a scope and standard sufficient to serve as a benchmark against which the impacts of the project may be assessed over an extended period. Control areas not impacted by the project should be included in proposed studies, and long-term monitoring locations should be established. This section of the draft EIS should include an in-depth description of the areas with the potential to or expected to be impacted by the project or any feasible alternatives and clearly identify, qualify and quantify, where appropriate, those potential environmental impacts. The section should also include an assessment of the level of significance of the impact, be it global, national, regional or local (eg. global and national implications of greenhouse gases and the localised impact of service roads or artificial water bodies). The possibility of remediation should also be discussed. Performance indicators for all potential impacts and remediation efforts should be identified. Environmental Management Plans will need to be developed in order to minimise and manage impacts associated with the project. Cumulative impacts should also be discussed including the extent to which the environment is already affected by existing developments. The reliability and validity of forecasts and predictions, confidence limits and margins of error should be indicated as appropriate.	Section 7 Section 8
4.2 Landform and Seabed Features	
4.2.1 Baseline Provide maps and interpret the regional topography/bathymetry, both onshore and offshore	Section 7.2.3 Section 8.2.3
Provide maps of and interpret the regional geology, including seismic stability. Describe geological structures along the pipeline route, WHP and gas processing sites that are of conservation significance.	Section 7.2.5 Section 8.2.5
Provide maps of and interpret the regional geomorphology, including the coastline.	Section 8.2.5

Cross Reference of EIS Guidelines with Draft EIS Content	Г
Guidelines	EIS Section
Discuss the soil types and land unit(s), including the major marine	Section 7.2.5
substrate types and potential and actual acid sulfate soils in areas likely to be affected by the proposal	Section 8.2.5
Detail the existing level of soil erosion and other disturbances	Section 7.2.5
	Section 8.2.5
4.2.2. Impacts	
Detail the extent and implications of possible impacts to landform and	Section 11.3 - 11.4
seabed features/sites from construction of all project components	Sections 12.2.1
Provide details of limiting properties of soil and substrate types and land	Section 7.2.5
units or seabed features along the proposed pipeline route and onshore	Section 8.2.5
and offshore facility sites relating to erosion, rehabilitation, acid generation or specific management requirements	Section 11.3-11.4
4	Section 12.2.1
4.2.3 Management	
Discuss measures taken to avoid or minimise the impacts identified in	Section 11.3 - 11.4
4.2.2.	Sections 12.2.1- 12.2.2
Provide management plans detailing measures to manage potential environmental impacts arising from landform limitations previously discussed	Section 15
4.3 Water	
4.3.1. Baseline	
For the offshore facilities and pipeline, describe local and regional tides, current patterns and wave action.	Section 7.2.4
Describe the existing temporal and local variations in suspended solids,	Section 7.2.3-7.2.5
contaminants and, if applicable, acid generation.	Section 8.2.5 - 8.2.6
Provide a general description of the surface water systems that may be impacted by the onshore pipeline and gas processing facilities including stormwater systems; natural and artificial catchment systems, drainage lines, wetlands and waterways; and the directions of overland flows.	Section 8.2.6
Describe the ground water systems along the onshore pipeline route and facilities site.	Section 8.2.6
Provide details of the potential locations of pipeline waterway crossings including bed and bank profiles and describe selection criteria for determining the final crossing locations. Include information on the flow regime of the waterways in the vicinity of the pipeline, in particular the timing (and volume) of flows in relation to any construction work.	N/A
4.3.2 Impacts	
Describe how the pipeline and other components of the project might	Sections 11.5- 11.20
impact on the oceanic, surface and ground water features described in 4.3.1.	Section 12.2.2
Provide details of typical crossings that would be constructed at each waterway crossing location and likely impacts associated with the crossing.	N/A
Detail the options for the source and impact of water for hydrostatic testing	Section 11.13
and any other construction/ operational water use, together with plans for	Sections 4.5.9
ite disposal after use	Section 4.6.3
its disposal after use.	Section 4.6.3

Guidelines	EIS Section
4.3.3 Management	
Discuss measures to ensure the beds and banks of water courses remain stable and protected from the natural forces of erosion as required, incorporating preferred methodologies of relevant Advisory Agencies where practicable particularly where there has been any disturbance to the bank or bed.	N/A
Discuss measures to safeguard downstream surface and ground water quality including appropriate management of any excavated acid sulphate soils and wetland crossings.	Section 12.2.1 - 12.2.2 Section 15
Describe measures to address extraction and dewatering of groundwater from the trench including use of impoundments.	N/A
4.4 Ecology	
4.4.1 Baseline	
Describe floral and faunal species (including pest or exotic species) and biological communities (including marine, estuarine, terrestrial and aquatic) including those of local, regional or national significance, which could be affected by the Project. Flora and fauna should be surveyed and described with rare, threatened, endangered and listed migratory species identified against relevant Territory and Commonwealth legislation. Species with Indigenous conservation values should also be described	Section 7.3 Section 8.3
Significant vegetation includes: - rare, threatened, endangered and regionally restricted species, vegetation types or habitats; communities that are particularly good examples of their	Section 8.3.3 Section 8.3.7
voes of napitals, communities that are particularly good examples of their	
type;	
type; - vegetation types which are outside their normal distribution or have other biogeographical significance;	
rype; - vegetation types which are outside their normal distribution or have other biogeographical significance; - ecologically outstanding areas which have importance beyond the	
ype; vegetation types which are outside their normal distribution or have other biogeographical significance; ecologically outstanding areas which have importance beyond the mmediate site, eg.wetlands, riparian forests, etc; and vegetation which is the habitat of rare and threatened fauna or has butstanding diversity.	
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Cross Reference of EIS Guidelines with Draft EIS Content	T
Guidelines	EIS Section
Discuss the effects of pollutants discharged to the marine environment, such as produced formation water and possibly condensate or hydrocarbon spills.	Section 11.8-11.19
Describe the impact associated with any proposed land clearing.	Section 12.3.1
Discuss the ability of identified stands of vegetation and faunal communities to withstand any increased pressure resulting from the proposal and measures proposed to mitigate impacts.	Section 12.3
dentify pest species/noxious weeds that are likely to occur as a result of activities within the project footprint.	Section 11.6 Section 12.3.4
4.4.3 Management	
Discuss ways in which impacts on species, communities and habitats can be minimised (eg minimised disruption to fish passage, timing of works, minimise riparian vegetation disturbance, proposed rehabilitation of instream and floodplain disturbances).	Section 11 Section 12.3 Section 15
Describe the methods for rehabilitating disturbed areas following construction, including revegetation strategies, surface stabilities and aquatic monitoring programs.	Section 11.4 Section 12.3 Section 15
Discuss measures to minimise wildlife capture and mortality in the open trench, including inspection and collaboration with Commonwealth and Territory wildlife agencies.	Section 12.3.3 Section 15
Discuss the method of managing/minimising the introduction of marine pests, feral animals, and other exotic flora and fauna species.	Section 11.6 Section 12.3.4
Include a weed management plan in the EMP to cover construction, rehabilitation and operation periods (a weed management plan is required under the NT Weeds Management Act 2001). Best practice weed management should be adopted with particular reference to The Australian Pipeline Industry Association APIA code of Environmental Practice.	Section 12.3.4 Section 15
A Vegetation Clearing Plan should be developed as part of the Construction EMP. Management of land clearing should be in accordance with The Australian Pipeline Industry Association Inc. (1998) Code of Environmental Practice – Onshore Pipelines.	Section 12.3.1 Section 15
4.5 Biting Insects	
Discuss the impact of biting midge and mosquito populations as pest and disease vectors on the work force and potential for construction activities to	Section 8.3.6
create new sources of biting insects for nearby residents.	Section 12.4
Identify measures to prevent the creation of new mosquito breeding sites in quarries and borrow pits.	Section 12.4
dentify measures to prevent construction activities causing impacts on drainage lines which will lead to increases in biting insect species of pest and health significance.	Section 12.4
Discuss the effects of construction activities and disposal of construction wastes on biting insect species of pest and health significance, including measures to prevent increases in these species.	Section 12.4
4.6 Air Quality and Noise	
4.6.1 Baseline	
Sensitive noise receptors adjacent to the pipeline route, offshore and conshore facilities and relevant ancillary activities, should be mapped and typical background noise levels recorded. The potential sensitivity of such receptors should be discussed. Performance indicators and standards should be nominated for each affected receptor. Include a discussion of receptors in the water column that may be impacted by noise.	Section 6.4

Guidelines	EIS Section
Similarly, ambient air quality including background dust levels should be measured and described for the shore crossing.	Section 6.3
4.6.2 Impacts	
Assess impacts of noise generated during construction and operation of the pipeline, offshore and onshore facilities, and ancillary activities against current typical background levels. Anticipated noise levels, their timing and duration, should be considered in conjunction with the sensitivity of the receptor. Include an assessment of impacts to underwater receptors including cetaceans.	Section 12.7
Identify and assess the possible impacts of the following air quality issues resulting from the construction and operation of the pipeline: odour;	Section 6.3 Section 11.21
- gaseous emissions including carbon monoxide (CO) and oxides of nitrogen (NO _x);	Section 12.6
- accidental and planned gas releases; and	
- greenhouse gas emissions and ozone depleting substances	
4.6.3 Management	
Discuss measures that will be used to minimise the impacts of noise	Section 11.22
assessed in 4.6.2, including the attenuation of noise in the water column.	Section 12.7
	Section 15
Outline dust suppression initiatives. Discuss and recommend dust	Section 12.3.5
suppression strategies and monitoring of dust impacts.	Section 15
Outline the measures that will be employed for monitoring and dealing with	Section 4.7.2
gas leakages during operations.	Section 4.7.3.2
	Section 15
Discuss the effectiveness of the pollution control technology in minimising	Section 6.3.4
odour emissions.	Section 12.6.4
4.7 Waste Management	
4.7.4 Immed	
4.7.1. Impact	
Identify and describe (amount and characteristics) all wastes and their sources associated with construction, operation and decommissioning of all components of the proposal.	Section 6
Identify and describe (amount and characteristics) all wastes and their sources associated with construction, operation and decommissioning of all components of the proposal. Describe all activities, including chemical and mechanical, to be conducted on the construction sites/camps (eg. chemical storage, sewage treatment,	Section 6 Section 4.5 Section 4.8
Identify and describe (amount and characteristics) all wastes and their sources associated with construction, operation and decommissioning of all components of the proposal. Describe all activities, including chemical and mechanical, to be conducted on the construction sites/camps (eg. chemical storage, sewage treatment,	Section 4.5
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Identify and describe (amount and characteristics) all wastes and their sources associated with construction, operation and decommissioning of all components of the proposal. Describe all activities, including chemical and mechanical, to be conducted on the construction sites/camps (eg. chemical storage, sewage treatment, power generation, fuel burning, mechanical workshop, and diesel storage). 4.7.2 Management Discuss waste management strategies, including avoidance of waste generation, reduction, reuse, recycling, storage, transport and disposal of waste, and site drainage and erosion control. Detail hazardous materials to be stored and/or used on site; provide their	Section 4.5 Section 4.8 Section 11.20
Identify and describe (amount and characteristics) all wastes and their sources associated with construction, operation and decommissioning of all components of the proposal. Describe all activities, including chemical and mechanical, to be conducted on the construction sites/camps (eg. chemical storage, sewage treatment, power generation, fuel burning, mechanical workshop, and diesel storage). 4.7.2 Management Discuss waste management strategies, including avoidance of waste generation, reduction, reuse, recycling, storage, transport and disposal of waste, and site drainage and erosion control. Detail hazardous materials to be stored and/or used on site; provide their Material Safety Data Sheets and environmental toxicity data and	Section 4.5 Section 4.8 Section 11.20 Section 12.5
Identify and describe (amount and characteristics) all wastes and their sources associated with construction, operation and decommissioning of all components of the proposal. Describe all activities, including chemical and mechanical, to be conducted on the construction sites/camps (eg. chemical storage, sewage treatment, power generation, fuel burning, mechanical workshop, and diesel storage). 4.7.2 Management Discuss waste management strategies, including avoidance of waste generation, reduction, reuse, recycling, storage, transport and disposal of waste, and site drainage and erosion control. Detail hazardous materials to be stored and/or used on site; provide their	Section 4.5 Section 4.8 Section 11.20 Section 12.5 Section 6
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Guidelines	EIS Section
4.9 Greenhouse Gas Emissions Inventory And Benchmarking	
Refer to Appendix 1 NT Environmental Impact Assessment Guide –	Section 6.3.1
Greenhouse Gas Emissions.	Section 11.21
	Section 12.6.1
4.10 Socio Economic	Sections 9, 13, 14
4.10.1 Use (land and marine)	
Baseline	
dentify zoning, uses and features within the project footprint including:	Section 9.2 - 9.3
- ՚մrban and rural residential;	Section 9.7- 9.11
- agricultural, pastoral, fisheries and shipping;	
conservation, wilderness, scenic and heritage areas;	
- recreational land use (eg recreational fishing), areas of research, educational and scientific value; and	
- extractive, mining and other commercial industries.	
dentify land titles (eg freehold, leasehold, pastoral, crown land, native title, mining tenure etc) and rights over land such as Native Title (under the Native Title Act 1993 and Aboriginal land claims under the Aboriginal Land Rights (Northern Territory) Act 1976 and any other appropriate legislation).	Section 9.2
List the jurisdictions and responsible authorities for the areas described above and show on maps at appropriate scales, together with the regulatory regime applying to each area.	Section 9.2
Discuss the distances from towns, communities, houses, recreation areas, and other facilities, and the locations of pipelines, power lines, telephone lines and other infrastructure.	Section 9.2
4.10.1.1 Impact	
Describe, including timeframes, the anticipated and potential site specific and cumulative impacts on existing and potential uses and developments (as described in 4.10.1.1) during the construction and operation phases. The proponent is required to consult with responsible authorities for policies on such disturbances.	Section 13.2
Discuss the likely impacts on the land use status and ownership of the land crossed by the proposed pipeline and gas processing case in terms of land acquisition and compensation. Indigenous ownership, including native title claimants and holders, and land use should be a component of this discussion.	Section 13.2
4.10.1.2 Management	
Outline measures to minimise the impacts to current and future uses of	Section 13.2 - 13.7
and and water in the project area. Include an assessment of the need for any land easement acquisition and compensation for loss of land.	Section 14
Provide details on measures to rehabilitate areas impacted by the project.	Section 12.3
	Section 15

Cross Reference of EIS Guidelines with Draft EIS Content	
Guidelines	EIS Section
4.10.2 Historic and Cultural Heritage Values	
4.10.2.1 Baseline	
Identify Indigenous and non-indigenous places of historic or contemporary cultural heritage significance, including:	Section 9.9 - 9.10
areas nominated for listing or listed on the Register of the National Estate or the Interim list of the Register of the National Estate;	
a reas nominated for listing or listed on Commonwealth and Territory Heritage registers	
and Commonwealth and Territory registers of indigenous cultural heritage;	
§acred sites - provide evidence of an Authority Certificate under the Northern Territory	
Aboriginal Sacred Sites Act 2000 and compliance with protection of sites under the	
Aboriginal Land Rights (Northern Territory) Act 1976;	
Praditional and historic Aboriginal and Torres Strait Islander (ATSI) archaeological and	
heritage places and objects protected under relevant Territory and/or Commonwealth	
legislation;	
a ny historic shipwrecks that may be encountered and are protected under the Historic	
Shipwrecks Act 1976;	
European historic sites; and	
areas with special values to indigenous and non-indigenous people (eg. traditional land	
use, landscape, visual environment, recreational, commercial, tourism, fisheries, scientific, educational, marine archaeological sites).	
This should be done through community consultation, historic research and field survey. No information of a confidential nature (particularly that related to anthropological matters) relevant to indigenous people or groups is to be disclosed in the EIS. However, the EIS must describe the arrangements that have been negotiated with relevant indigenous groups in relation to anthropological and archaeological surveys.	
Advice and permits on the conduct of these studies should be sought from the responsible authorities. Independent qualified professionals in consultation with the Traditional Owners, or their representative bodies in the relevant area must conduct surveys.	
Research and surveys are to be carried out using an appropriate methodology which provides for involvement of indigenous people and which is acceptable to the traditional owners concerned with the relevant areas. Relevant indigenous groups should be consulted in relation to the nature and scope of surveys and the appointment of the people to undertake them. Consultation with historical organisations should also be undertaken.	
4.10.2.2 Impact	
Describe the potential impacts on the features described in 4.10.2.1.	Section 13.8 - 13.9

Guidelines	EIS Section
The identification of indigenous cultural heritage impacts is to take place in consultation with relevant indigenous groups. This should assess the Project's effects on lifestyles, traditional fishing practices, heritage places, the impact of increased visitation and the effects on indigenous culture generally. All groups should be consulted in relation to the traditional subsistence economy, their natural resource use, and Native Title interests.	Section 13.8-13.9
Discuss the impacts on the relationships between groups identified with traditional and/or contemporary interest in the project area.	Section 13.8 - 13.9
4.10.2.3 Management	
Every attempt should be made to identify a pipeline route and gas processing site, which avoids any significant heritage areas. The separation distances between right of way and associated infrastructure and identified areas of cultural significance should be considered.	Section 5
Cultural Heritage Management Plans (CHMP's) should be developed and implemented with the direct involvement of indigenous people. The CHMP's should encourage ongoing protection and management of cultural values; maximise involvement in management strategies and enable proponents to meet duty of care to protect Aboriginal cultural values.	Section 15
Describe procedures for the discovery of as yet undiscovered sub-surface materials.	Section 13.9
4.10.3 Social Environment	
4.10.3.1 Baseline	
Identify key stakeholders	Section 3
Detail regional community structures and vitality (including demography, health, education and social well being, access to services, housing, etc).	Section 9.12 Section 14
Identify the number and capacity of existing human services to support a remote construction work force:	Section 9.12 Section 14
- skills audit of affected communities;	
- workforce characteristics; and	
- housing accommodation type and quantity.	
4.10.3.2 Impacts and Management	
The EIS should include a Social Impact Management Plan developed in consultation with impacted communities, which discusses:	
general social impacts of the proposal during construction and operation, including the impacts of the construction workforce/ maintenance teams on affected landowners (including native title holders and claimants) and communities, recreational users, health and housing, property values and local authority rates are to be considered;	Section 14
The potential of the local communities to meet the demands for employment in the company's workforce, and as a source of provisions should be discussed for construction, rehabilitation and operation phases of the project. The proponent should identify relevant government policies related to employment in regional areas and discuss compatibility of the project with these policies (liaise with the Office of Indigenous Policy, Department of the Chief Minister);	Section 13.12 Section 14
Relations between groups identified, in particular those based on age, sex, kinship, and place of origin and how this will be impacted by the Project; opportunities for training and employment during construction of the Project (eg. employment, monitoring and maintenance contracts) and how this will be structured, managed and implemented;	Section 14

Guidelines	EIS Section
Options for possible external commercial arrangements;	Section 13.12
3	Section 14
Possible future benefits following construction;	Section 2.3
Opportunities for ongoing involvement in the project operation;	Section 13.12
	Section 14
The provision of cultural awareness programs and behavioural guidelines to project employees;	Section 14
Monitoring regimes to monitor and evaluate the management of the above mentioned impacts. Provide for modifications to existing measures where mitigation strategies fail to prevent negative impacts.	Section 14
4.10.4 Economics	
4.10.4.1 Baseline	Section 9.12
Detail regional, state and national economic viability (including economic base and economic activity, future economic opportunities, etc).	
4.10.4.2 Impacts and Management	
The EIS should present a balanced broad summary of the project's impact on the regional, territory and national economies in terms of direct and indirect effects on employment, income and production. It should specify any disturbance to existing land use or threat to wilderness areas, which may impact on commercial activities and potentially impact adversely on employment.	Section 13.12
An indication of the broader development benefits of the project should be	Section 2.3
included.	Section 13.12
Describe opportunities available to regional centres/communities based on the activity generated by the project (construction, rehabilitation and operation) and the availability of gas to existing and potential customers.	Section 13.12
4.10.5 Infrastructure and Transport	
4.10.5.1 Baseline	
Detail existing transport networks (including road, air and ports), telecommunications (optical fibre routes), gas and electricity infrastructure, and water supply and wastewater utilities. Include detail to differentiate between types of infrastructure eg. road type, dual carriage way/single lane bitumen/gravel.	Section 9.4
Identify constraints with the existing infrastructure (eg wet season access, periods of road closure and load limits).	Section 9.4
Provide details of new infrastructure that will be required for the project	Section 4.5.11
including any requirements to upgrade existing infrastructure. In particular, provide locations of new roads or tracks, lay down storage areas, turning	Section 4.6.5
circles, approach diversion lanes etc.	Section 4.7.6
	Section 4.8
	Section 9.4
4.10.5.2 Impact	
Describe the potential impacts of the proposal on existing and future local infrastructure and transport networks during construction and operation. This should include reference to increased road usage and shipping generated by the project.	Section 13.3
Detail the value of proposed pipeline and associated infrastructure in terms of the potential to provide alternative gas supply to other gas customers and to act as a conduit for other services.	Section 13.12 Section 2.3

Guidelines	EIS Section
	Section 12.6.4
Discuss the potential impacts of transport operations on public amenity associated with construction (noise, dust, light).	Section 12.7
· · · · · · · · · · · · · · · · · · ·	Section 12.7 Section 12.8
	Section 12.9
4.10.5.3 Management	GCGGGII 12.3
Describe the management of impacts on the road system and other	Section 13.3
existing infrastructure, including proposed corrective measures (in consultation with relevant regulatory agencies) and relevant guidelines used for construction, and operational and maintenance phases. Include measures to upgrade, maintain and restore gazetted or nominated roads and access tracks, and to undertake pipeline crossings of tracks.	Section 13.3
Outline requirements and responsibilities for rehabilitation or maintenance of roads and other project infrastructure upon project completion.	Section 13.3
Discuss the provision for safety of the travelling public if a high pressure	Section 4.7.3.2
gas pipeline were to be located in a road reserve.	Section 4.8.5
Discuss measures to minimise disruption to road users during construction of the pipeline and to ensure their safety during both construction and subsequent operation of the pipeline.	Section 13.3
5 PROJECT ENVIRONMENTAL MANAGEMENT	Section 15
Specific safeguards and controls, which would be employed to minimise or remedy environmental impacts, are to be outlined. These are to be covered in detail in the Environmental Management Plans (EMP's).	
5.1 Environmental Management System	
It is recommended that the proponent develops and implements an Environmental Management System (EMS) for the project. The EMS should incorporate all facilities and operations associated with the project to an accepted standard commensurate with the risk of environmental harm. Accepted EMS standards are specified in:	Section 15.1
- AS/NZS ISO 14000 - Environmental Management System, Guidelines on Principles;	
- AS/NZS ISO 14001 – Environmental Management System, Specifications with guidance for Use;	
- BS 7750 – Specifications for Environmental Management Systems	
- The APPEA code of Environmental Practice.	
- The EMS should include an annual program with the objective of verification of compliance with all environmental performance commitments, including permits and licences. The Environmental Management Plan required as part of this EIS should describe a commitment to develop an EMS to one of the above specifications.	
- Discuss the potential use of an Integrated Environmental Management System (EMS) incorporating Environment Management Plans (EMP's), Monitoring and Reporting arrangements, or equivalent site-based management plans that would assist the determination of appropriate approval conditions for the project.	
5.2 Resourcing and Policies	Section 15
Information is to be provided on strategic matters relating to environmental management and should include:	
staffing arrangements to ensure that the measures described in the report will be carried out effectively	Section 15.1 - 15.2

Cross Reference of EIS Guidelines with Draft EIS Content		
Guidelines	EIS Section	
procedures and instructions to employees on minimising unnecessary environmental impacts	Section 15.1 - 15.2	
staff induction and education program to ensure an informed response to onstruction and operational environmental concerns	Section 15.1 - 15.2	
levelopment of staff behavioural guidelines and cross-cultural awareness raining	Section 15.1 - 15.2	
.3 Environmental Management Plan		
is recommended that all environmental commitments made in the EIS be included and indexed in the Construction and Operational Environmental flanagement Plans.	Section 15.4	
The EMP's should be prepared in consultation with the relevant Commonwealth and Territory advisory agencies.	Section 15.2	
Provide strategic draft EMPs with the draft EIS.	Section 15.2	
Discuss the process for updating the EMP's including periods for regular eview.	Section 15.2	
The EMP commitments should include clear timelines for key commitments, especially in relation to stabilisation and rehabilitation of the corridor and other disturbed areas.	Section 15.2 - 15.4	
When information is not available, it should be described with an indication f how and when the information will be incorporated into the final detailed EMP.	Section 15.2	
The EMP's must be prepared in accordance with recognised standards and, in particular, to standards applicable to the construction and operation of gas production facilities and pipelines and as required by Commonwealth and Territory legislation, for example The Australian Pipeline Industry Association Inc. (1998) Code of Environmental Practice—Onshore Pipelines.	Section 15.2	
The EMP's should also cover any ancillary developments with potential invironmental impacts, occurring as part of the pipeline. This should insure that environmental risk, particularly to regional communities, is binimised.	Section 15.2	
reference to the standards used is required; relevant standards are referred to in Section 5.1 in relation to Environmental Management systems. The plan should address, but not be limited to, the following natters:	Section 15.2	
he management objectives;		
specific strategies to meet the management objectives, such as the reparation and implementation of various management plans, eg. ehabilitation plans, habitat enhancement projects, erosion and sediment ontrol plans, pollution control plans,		
greenhouse emissions, waste management plans, etc, in consultation ith agencies;		
the quality assurance, monitoring and auditing requirements and programs acluding the identification of performance indicators and criteria, nonitoring and auditing locations and frequency;		
dentification of responsible personnel in the Proponent's organisation; in the contractors' staff and in the government agencies concerned;		
reporting processes;		

Cross Reference of EIS Guidelines with Draft EIS Content		
Guidelines	EIS Section	
5.4 Monitoring and Reporting Strategies	Section 15.3	
Specific programs of monitoring or measuring the success of the Project's environmental management are to be outlined. These should be covered in greater detail in the Environmental Management Plan. Matters to be considered should include:		
Details of inspections to be undertaken to ensure the integrity of the pipeline	Section 4.7 Section 4.5	
Objectives to measure rehabilitation success, address weed infestation, restrict access along the pipeline route, extent of erosion along the route, water quality in adjacent streams and control of biting insect species of pest and health significance	Section 15.3	
Performance requirements should be specified quantitatively, including performance indicators for each aspect to be measured, and the stipulated target level or standard to achieve for each indicator. The timing and frequency of monitoring should also be provided. Monitoring programs should:	Section 15.3	
- ensure safeguards are being effectively applied;- be capable of identifying any differences between predicted and actual impacts; and		
- identify the party responsible for undertaking corrective actions, and the actions taken to address problems.		
The reporting program should detail:	Section 15.3	
- steps to be taken to correct detrimental effects identified by monitoring;		
- procedures for reporting on monitoring programs; and		
- proposed recipients of reports.		
The monitoring of rehabilitation success at pipeline sites adjacent to or across waterways must continue for an adequate period to ensure that such works/rehabilitation withstand the natural flow regimes of the region.	Section 15.3	
6 HEALTH AND SAFETY PROGRAM	Section 16	
Health and Safety issues pertaining to the design, construction and operational phases of the project, and the transport of construction materials, should be investigated. This should address issues concerning employees visiting the site and members of the public.		
Discuss issues relating to provision of emergency first aid treatment and transport of sick or injured persons to the nearest appropriate medical facility.	Section 15.2 Section 16.3.3	
Prepare a management and administration plan outlining strategies and procedures in the event of an emergency.	Section 15.3 Section 16.6	
7 RISK ASSESSMENT AND EMERGENCY MANAGEMENT PLANS		
7.1 Risk Assessment		
The Proponent shall carry out a Risk Assessment in accordance with AS 2885 Gas and Liquid Petroleum Pipelines and the guidelines of the responsible authority, where relevant.	Section 10	
While the EIS must deal comprehensively with on site risks, it is suggested that external risks to the project also be considered. It is suggested that external risks from natural hazards be determined on the basis of AS/NZS Risk Management Standard 4360:1999.	Section 10	

Guidelines	EIS Section
The study shall discuss all potential risks associated with operation of the	Section 10
pipeline. Where possible describe these risks in quantitative terms.	Section 11
	Section 12
An indication is required of the likelihood of possible abnormal events that	Section 11
may arise in operation, together with the safeguards, which will be employed to reduce the likelihood of their incidence.	Section 12
The seismic stability of the pipeline route needs to be addressed and the	Section 7.2.2
vulnerability of the route to flooding.	Section 8.2.2
	Section 8.2.5
Analysis shall be conducted of the consequences of these events in terms	Section 11
of possible risks, which may arise to public safety and environmental damage in the Project area, particularly in the vicinity of the pipeline.	Section 12
Details are to be provided of the safeguards, which will be employed or	Section 11
installed to reduce the risk of injury to persons, fauna and environmentally sensitive sites along the pipeline route.	Section 12
A review of potential hazards, accidents, during the construction,	Section 11
operational and decommissioning phases should be provided.	Section 12
	Section 16
7.2 Emergency Management Plan	
An outline of the proposed emergency management procedures, including the likelihood of accidental release of gas or other materials from the pipeline is to be provided. The information should include:	Section 16.6
- the quantity of gas that would be lost;	
- the area affected by the gas, under a range of likely flow conditions, including no flow up to a "typical" flood flow; and	
the approximate time scale for removal of gas by natural processes.	
The following should also be considered:	Section 11.19
contingency plans to deal with hydrocarbon (eg. diesel, lubricating oils) oil	Section 12.5.4
spills during construction, operation and maintenance of the pipeline;	Section 15
- contingency plans to account for natural disasters such as storms, floods and fires during the construction, operation and maintenance phases; ensure that development of emergency planning and response procedures are determined in consultation with regional emergency service providers; and	Section 16.6
- include the relevant Commonwealth and Territory agencies in relation to emergency medical response and transport and first aid matters.	
8 PUBLIC INVOLVEMENT AND CONSULTATION	
Public involvement and the role of government organisations should be clearly identified. The outcomes of surveys, public meetings and liaison with interested groups should be discussed and any resulting changes made to the proposal clearly identified. Details of any ongoing liaison should also be discussed.	Section 3
Negotiations and discussions with local and community government, the Territory Government and the Australian Government should be detailed and any outcomes referenced. Details of any ongoing negotiations and discussion with government agencies should also be presented.	Section 3

Cross Reference of EIS Guidelines with Draft EIS Content				
Guidelines	EIS Section			
9 BIBLIOGRAPHY	Section 18			
The Draft EIS should contain a comprehensive reference list/bibliography. Any source of information such as studies, research, maps and personal communications used in the preparation of the Draft EIS should be clearly identified, cited in the text and referenced in the bibliography.				
10 GLOSSARY	Section 17			
A glossary should be provided, defining the meaning of technical terms, abbreviations and colloquialisms. (Note: throughout the Draft EIS, technical terms and jargon should be minimised).				
11 APPENDICES	Volume 2.			
Information and data related to the Draft EIS but unsuitable for inclusion in the main body of the statement (eg. because of its level of technical detail) should be included as appendices. This may include detailed analyses, monitoring studies, baseline surveys, raw data and modelling data. Where necessary, specific guidance should be provided on the most appropriate means of accessing information not appended to the Draft EIS.				