



# APPENDIX D

## DAC EIS GUIDELINES COMPARISON



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Chapter numbers referenced in the table are listed below:

Exec Summary	Chapter 16 - Groundwater
Chapter 1 - Introduction	Chapter 17 – Soil and Land Quality
Chapter 2 - Project Justification	Chapter 18 - Traffic and Transport
Chapter 3 - Project Alternatives	Chapter 19 - Aboriginal Heritage and Native Title
Chapter 4 - Project Description	Chapter 20 - Non-Aboriginal Heritage
Chapter 5 - Statutory Framework	Chapter 21 – Economic Environment
Chapter 6 - Stakeholder Engagement	Chapter 22 – Social Environment
Chapter 7 - Physical Environment	Chapter 23 – Landscape and Visual Amenity
Chapter 8 - Land Use and Tenure	Chapter 24 - Environmental Management
Chapter 9 - Risk and Impact Definition	Glossary
Chapter 10 - Air Quality	References
Chapter 11 – Climate Change and Greenhouse Gas	Appendices
Chapter 12 - Noise and Vibration	
Chapter 13 - Terrestrial Flora and Fauna	
Chapter 14 - Marine and Coastal Environment	
Chapter 15 - Surface Water	

Item	Requirements	EIS Chapters / Appendices
<b>3.1 THE ENVIRONMENTAL IMPACT STATEMENT DOCUMENT - STRUCTURE</b>		
3.1.1	<p><b>SUMMARY</b></p> <p>The EIS should include a concise summary of the matters set out in section 46B of the Act and include all aspects covered under the headings set out in the Guidelines below, in order for the reader to obtain a quick but thorough understanding of the proposal and the resulting environmental impacts.</p>	Executive Summary
3.1.2	<p><b>INTRODUCTION</b></p> <ul style="list-style-type: none"> <li>Background to, and objectives of, the proposed development.</li> <li>Details of the proponent.</li> <li>Relevant legislative requirements and approval processes.</li> <li>Purpose and description of the EIS process.</li> </ul>	Chapter 1, Chapter 5
3.1.3	<p><b>ASSESSMENT OF EXPECTED ENVIRONMENTAL, SOCIAL AND ECONOMIC EFFECTS</b></p> <p>The assessment of effects should include all issues identified in Section 4 of these Guidelines and cross-referenced to supporting technical references.</p>	Chapter 10 to 23 Impact and risk method employed detailed in Chapter 9

Item	Requirements	EIS Chapters / Appendices
3.1.4	<p><b>AVOIDANCE, MITIGATION, OFFSET MANAGEMENT AND CONTROL OF ADVERSE EFFECTS</b></p> <p>The proponent's commitment to avoid, mitigate, and/or compensate (including environmental offsets) satisfactorily manage and/or control any potentially adverse impacts of the development on the physical, social or economic environment, must be clearly stated as part of the EIS.</p> <p>The design of the proposal should be flexible enough to incorporate changes to minimise any impacts highlighted by this evaluation or by post-operation monitoring programs.</p> <p>The EIS should demonstrate that the proposed avoidance, mitigation, offset, management and control measures are consistent with the EPBC Act offsets policy and relevant recovery plans, conservation advice and threat abatement plans.</p>	<p>Design measures to avoid and mitigate impacts described in each of Chapters 10 to 23.</p> <p>Environmental management framework outlined in Chapter 24, Appendix AA – Construction Environmental Management Plan &amp; Appendix BB – Operation Environment Management Plan.</p>
3.1.5	<p><b>SOURCES OF INFORMATION</b></p> <p>The sources of information (e.g. reference documents, literature services, research projects, authorities consulted) should be fully referenced, and reference should be made to any uncertainties in knowledge. Where judgments are made, or opinions given, these will need to be clearly identified as such, and the basis on which these judgments or opinions are made will need to be justified. The expertise of those making the judgments including the qualifications of consultants and authorities should also be provided.</p>	<p>Chapters 1 to 24, References listed in Chapter 26 &amp; throughout Appendices</p>
3.1.6	<p><b>APPENDICES</b></p> <p>Technical and additional information relevant to the EIS that is not included in the text should be included in the appendices (maps, graphs, tables, photographs, reports etc). A glossary may also be appropriate.</p>	<p>Glossary Appendices A - CC</p>
3.1.7	<p><b>OTHER</b></p> <p>Appropriate plans, drawings and elevations are needed for a decision to be made. As much information as possible is required of the design and layout of the proposal.</p>	<p>Chapter 4, with alternatives considered discussed in Chapter 3.</p>
<b>4.1 PLANNING AND ENVIRONMENTAL LEGISLATION AND POLICIES</b>		
4.1.1	<p>Describe the extent to which the expected effects of the development are consistent with the provisions of the relevant Development Plans and the relevant Planning Strategy.</p>	<p>Chapter 5, Chapter 8</p>
4.1.2	<p>Describe the extent to which the expected effects of the development are consistent with the objects of the Environment Protection Act 1993; the general environmental duty under that Act; and relevant environment protection policies under that Act.</p>	<p>Chapter 5, Chapters 10 - 23</p>

Item	Requirements	EIS Chapters / Appendices
4.1.3	Describe the extent to which the expected effects of the development are consistent with the prohibitions and restrictions applying within the marine park under the Marine Parks Act 2007; and the general duty of care under that Act.	Chapter 5 Appendix Q – Marine Environmental Technical Report
4.1.4	Describe the proponents commitments to meet conditions (if any) that should be observed in order to avoid, mitigate or satisfactorily manage and control any potentially adverse effects of the development or project on the environment.	Chapter 24 Appendix AA – Construction Environmental Management Plan Appendix BB – Operation Environment Management Plan.
4.1.5	Describe the proposal’s consistency with other State and Commonwealth legislation; including provisions of the EPBC Act 1999 (include consideration of principles of sustainable development and any relevant bioregional plans).	Chapter 5
4.1.6	Identify the full scope of legislative requirements and the range of approvals needed to complete the proposed development.	Chapter 5
4.1.7	Describe any changes that the proponent believes will need to be made to the zoning of the multiple sites to facilitate the ongoing use.	Chapter 5, Chapter 8
<b>4.2 NEED FOR THE PROPOSAL</b>		
4.2.1	Outline current and predicted demand for the proposal.	Chapter 2
4.2.2	Assess the ‘do nothing’ option (i.e. the consequences of not proceeding with the development).	Chapter 2, Chapter 21, Chapter 22
<b>4.3 ENVIRONMENTAL ISSUES</b>		
<b>Coastal and Marine</b>		
4.3.1	Describe the impacts of jetty construction and tug wharf on the foreshore, intertidal, seabed and benthic communities (especially any nursery/spawning areas), and any mitigation measures that may be used.	Chapter 14 & Appendix Q – Marine Environment Technical Report
4.3.2	Describe the coastal engineering requirements for the location, orientation and type of jetty structure.	Chapter 14 Appendix Q – Marine Environment Technical Report Appendix R – Cape Hardy Coastal Modelling
4.3.3	Describe the impacts of any blasting activities, pile driving or screw piling activities on marine communities, especially turbidity/disturbance, vibration and underwater noise on vulnerable or sensitive receptors (including marine mammals) and any mitigation methods that may be used.	Chapter 14 Appendix Q – Marine Environment Technical Report Appendix S – Marine Environment Noise Assessment Report

Item	Requirements	EIS Chapters / Appendices
4.3.4	Describe the design and operational measures to protect water quality and prevent stormwater and other run-off from the site affecting the coastal and marine environment, during both construction and operation.	Chapter 4, Chapter 14, Chapter 15, Chapter 24 Appendix Q – Marine Environment Technical Report Appendix AA – Construction Environmental Management Plan Appendix BB – Operation Environment Management Plan.
4.3.5	Describe the impact of any incidental concentrate spillage and dust emissions (point source and fugitive) during ship loading operations on the marine environment, especially water quality.	Chapter 10, Chapter 14 Appendix Q – Marine Environment Technical Report
4.3.6	Describe how ship loading operations will minimise incidental concentrate spillage and dust emissions (point source and fugitive) during loading operations to avoid causing harm to marine or coastal flora or fauna species, and any mitigation measures that may be used.	Chapter 4, Chapter 10, Chapter 14 Appendix Q – Marine Environment Technical Report
4.3.7	Describe the potential impacts of increased shipping traffic and activities in the Spencer Gulf from offshore anchoring, transshipment or pilotage (especially on marine fauna, water quality, recreational activities and amenity), including effects on commercial and recreational fishing and aquaculture.	Chapter 14 Appendix Q – Marine Environment Technical Report
4.3.8	Describe how marine pests on the jetty will be monitored and managed. Detail the response procedure that will be followed in the event of a new pest record.	Chapter 14, Chapter 24 Appendix Q – Marine Environment Technical Report Appendix AA – Construction Environmental Management Plan Appendix BB – Operation Environment Management Plan
4.3.9	Investigate the sedimentary profiles in the area of construction and associated ship docking/manoeuvring areas, to determine if there are risks from the exposure of fine sediments or clays that would impact adversely on water quality (turbidity) and contribute to the production of sediment plumes in the region.	Chapter 14, Chapter 24 Appendix Q – Marine Environment Technical Report Appendix AA – Construction Environmental Management Plan
4.3.10	Detail measures to protect nearby beach and/or rocky foreshore areas during and after construction, including potential marine and terrestrial protection areas or associated buffers.	Chapter 14 Appendix Q – Marine Environment Technical Report Appendix AA – Construction Environmental Management Plan
4.3.11	Describe existing sand movement and water flow characteristics through and around the jetty structure area, to identify any possible changes to beach profiles or sedimentation on sensitive flora and fauna, and to determine sand management requirements.	Chapter 14 Appendix Q – Marine Environment Technical Report Appendix R – Cape Hardy Coastal Modelling

Item	Requirements	EIS Chapters / Appendices
4.3.12	Quantify and detail the extent, condition and significance of native vegetation (individual species and communities) that currently exist at the Cape Hardy site, the infrastructure corridors and the long term employee village.	Chapter 13 Appendices O – Infrastructure Corridor Ecological Assessment Appendix P – Port Terrestrial Ecology Baseline Survey Appendix Q – Marine Environment Technical Report
4.3.13	Quantify and detail the extent, condition and significance of native vegetation (individual species and communities) that may need to be cleared or disturbed during construction and the ability of communities or individual species to recover, regenerate or be rehabilitated.	Chapter 13, Chapter 14 Appendix O – Infrastructure Corridor Ecological Assessment Appendix P – Port Terrestrial Ecology Baseline Survey Appendix Q – Marine Environment Technical Report
4.3.14	Describe measures to deliver any significant environmental benefit that is required by the Native Vegetation Act 1991. Identify measures to minimise and mitigate vegetation clearance, including incorporating any remnant stands in the layout design, and to compensate for any loss of native vegetation and habitat.	Chapter 13, Chapter 14, Chapter 24 Appendix O – Infrastructure Corridor Ecological Assessment Appendix P – Port Terrestrial Ecology Baseline Survey Appendix Q – Marine Environment Technical Report Appendix AA – Construction Environmental Management Plan Appendix BB – Operational Environmental Management Plan
4.3.15	Describe strategies to manage and monitor invasive weed species to protect terrestrial (particularly the Hambidge Wilderness Protection Area), coastal and marine species.	Chapter 13, Chapter 14, Chapter 24 Appendix Q – Marine Environment Technical Report Appendix AA – Construction Environmental Management Plan Appendix BB – Operational Environmental Management Plan
4.3.16	Identify impact avoidance, minimisation and mitigation measures and their effectiveness.	Chapter 3, Chapter 4, Chapter 13, Chapter 14, Chapter 24 Appendix Q – Marine Environment Technical Report Appendix AA – Construction Environmental Management Plan Appendix BB – Operational Environmental Management Plan
4.3.17	Describe how the proposal is not inconsistent with any relevant EPBC Act guidelines, conservation advice and/or recovery plans. For instance, the conservation advice for the Eyre Peninsula Blue Gum ( <i>Eucalyptus petiolaris</i> ) Woodland Threatened Ecological Communities	Chapter 5, Chapter 13

Item	Requirements	EIS Chapters / Appendices
<b>Native Fauna (Terrestrial and Marine)</b>		
4.3.18	Quantify and detail the extent, condition and significance of native fauna (individual species and communities) that currently exist at the Cape Hardy site, the infrastructure corridors and the long term employee village. Identify sensitive receptors (i.e. species or life-history stages with particular sensitivity to construction or operational processes).	Chapter 13, Chapter 14 Appendix O – Infrastructure Corridor Ecological Assessment Appendix P – Port Terrestrial Ecology Baseline Survey Appendix Q – Marine Environment Technical Report
4.3.19	Quantify and detail the extent, condition and significance of potential native fauna habitat loss or disturbance during construction and operation and the ability of communities and individual species to recover, especially for resident or migratory shore birds, and Threatened, Endangered and Protected Species (TEPS) under the EPBC Act and the South Australian National Parks & Wildlife Act 1972 (NP&W).	Chapter 13, Chapter 14 Appendix O – Infrastructure Corridor Ecological Assessment Appendix P – Port Terrestrial Ecology Baseline Survey Appendix Q – Marine Environment Technical Report
4.3.20	Describe the measures taken to address displaced native fauna (if any).	Chapter 13, Chapter 24 Appendix AA – Construction Environmental Management Plan
4.3.21	Detail appropriate buffer distances that will be required between the proposed development and TEPS, including feeding areas, nesting sites and roosting sites.	Chapter 13
4.3.22	Outline the effect of light pollution, noise emissions and vibrations on TEPS (including those listed under the EPBC and NPW Act's) and how these will be managed.	Chapter 13, Chapter 14, Chapter 24 Appendix Q – Marine Environment technical Report Appendix S – Marine Environmental Noise Assessment Report Appendix AA – Construction Environmental Management Plan Appendix BB – Operational Environmental Management Plan
4.3.23	Describe the impacts of introduced species, especially vermin and nuisance species that can be attracted to port facilities.	Chapter 13, Chapter 14 Appendix P – Port Terrestrial Ecology Baseline Survey Appendix Q – Marine Environment Technical Report
4.3.24	Consider the potential cumulative impacts on marine fauna as a result of the proposed development and other planned or existing port facilities in the Spencer Gulf region.	Chapter 14 Appendix Q – Marine Environment Technical Report
4.3.25	Identify impact avoidance, minimisation, mitigation and offset (where appropriate) measures and their effectiveness.	Chapter 13, Chapter 14, Chapter 24 Appendix Q – Marine Environment Technical Report Appendix AA – Construction Environmental Management Plan Appendix BB – Operational Environmental Management Plan

Item	Requirements	EIS Chapters / Appendices
4.3.26	Describe how the proposal is not inconsistent with any relevant EPBC Act guidelines, conservation advice and/or recovery plans. For instance, the recovery plan for the endangered Southern Right Whale	Chapter 13, Chapter 14
<b>Geology and Soils</b>		
4.3.27	Describe the underlying geology and the nature of the soils with special reference to coastal landforms.	Chapter 7
4.3.28	Outline the interaction between surface erosion processes and the proposed development.	Chapter 15
4.3.29	Investigate, describe and illustrate the impact of the proposal on the landscape quality of the coastal environment and on any significant geological features.	Chapter 8, Chapter 14, Chapter 23
<b>Water Supply</b>		
4.3.30	Describe the known groundwater and surface water related environmental conditions, including consideration of any existing site contamination.	Chapter 15, Chapter 16, Chapter 17
4.3.31	Describe the operational and management framework for the extraction of water from the borefield, delivery to the mine site, reuse and end use.	Chapter 4, Chapter 16
4.3.32	Describe any potential water quality/soil erosion impacts and changes to hydrology (with reference to drainage patterns and groundwater characteristics) associated with construction and ongoing operational activities.	Chapter 15, Chapter 16
4.3.33	Detail the measures to be taken to manage and monitor any groundwater or surface water resources.	Chapter 15, Chapter 16
<b>Climate Change and Sustainability</b>		
4.3.34	Outline the potential effects of climate change on the Project from a risk management perspective, including adaptive management strategies.	Chapter 11, Chapter 14
4.3.35	Describe measures to minimise, reduce and ameliorate greenhouse gas emissions, particularly the use of alternative or renewable energy sources and off-sets, energy efficiency measures and energy conservation, and identify barriers to implementation.	Chapter 11
4.3.36	Detail the stormwater management plan to be implemented including Water Sensitive Urban Design (WSUD) measures, including a description of how recycled water will be treated as part of any water sustainability measures.	Chapter 15

Item	Requirements	EIS Chapters / Appendices
4.3.37	Describe how the State Waste Strategy ( <a href="http://www.zerowaste.sa.gov.au">www.zerowaste.sa.gov.au</a> ) will be implemented at all stages of the development, (with particular focus on the avoiding, reducing and reusing resources sections of the waste management hierarchy and the ability of existing infrastructure to deal with waste and recycling streams).	Chapter 4, Chapter 5, Chapter 24 Appendix AA – Construction Environmental Management Plan Appendix BB – Operational Environmental Management Plan
<b>Air Quality and Noise</b>		
4.3.38	Detail the predicted levels of environmental noise associated with the operation of the development, identifying all potential noise sources, and describe the impact upon the immediate and wider locality (include sensitive receivers). Identify if the predicted noise from ongoing operational sources associated with the project will meet the noise goals in the Environment Protection (Noise) Policy 2007 (Noise Policy) at the nearest noise sensitive receivers.	Chapter 12
4.3.39	Detail how noise emissions will be reduced and contained (such as via building design/materials, noise barriers and buffers, and/or implementing operational procedures) to meet the requirements of the Noise Policy and minimise impacts upon the immediate and wider locality, including the effects from increased transport and the rail line.	Chapter 12
4.3.40	Describe if predicted rail noise is consistent with the guidance contained in the Environment Protection Authority's 'Guidelines for the assessment of noise from rail infrastructure' (April 2013) at noise sensitive receivers. If the predicted rail noise is not consistent with the Guidelines, describe what measures will be implemented to mitigate rail noise such that it will be consistent with the Guidelines.	Chapter 12
4.3.41	Provide an air quality impact assessment for all potential sources of dust/particles (Dust deposition, TSP, PM10 and PM2.5) and gaseous pollutants associated with ongoing operation of the proposed port and infrastructure corridor which includes modelling undertaken in accordance with the EPA Guideline for 'Air quality impact assessment using design ground level pollutant concentrations (DGLCs)' and assesses consistency with the requirements of the DGLC Guidelines, the Environment Protection (Air Quality) Policy 1994 and the National Environmental (Ambient Air Quality) Protection Measure (2003). Describe how all potential sources of air pollution from the operation of the proposed development (especially dust and particulates from transport, unloading, storage and ship loading) will be controlled / minimised to comply with the general environmental duty as described in section 25 of the Environment Protection Act 1993 and relevant environment protection policies.	Chapter 10

Item	Requirements	EIS Chapters / Appendices
<b>Management and Monitoring</b>		
4.3.42	Describe measures to minimise, manage, monitor and rehabilitate impacts on the terrestrial, coastal and marine environment within and around the development, including managing the spread of pest plants and animals.	Chapter 13, Chapter 14, Chapter 24 Appendix AA – Construction Environmental Management Plan Appendix BB – Operational Environmental Management Plan
4.3.43	Describe the risk across the inventory of ecological assets and identification/management of sensitive receptors of causing or exacerbating any environmental problems in the locality, and describe mitigation measures and their expected effectiveness during all stages of construction and post construction.	Chapter 13, Chapter 14, Chapter 15, Chapter 16, Chapter 24 Appendix AA – Construction Environmental Management Plan Appendix BB – Operational Environmental Management Plan
4.3.44	Describe all of the monitoring measures, reporting regimes and audits for terrestrial, coastal and marine flora, fauna (especially TEPS or significant species), water (surface water and groundwater), energy, waste, soil erosion and introduced species.	Chapter 10 to 16, Chapter 24 Appendix AA – Construction Environmental Management Plan Appendix BB – Operational Environmental Management Plan
4.3.45	Outline how potential air pollution from the proposed development (especially dust and particulates from transport, unloading, storage and ship loading) would be monitored during ongoing operations.	Chapter 10, Chapter 24 Appendix BB – Operational Environmental Management Plan
<b>4.4 BUILT FORM AND DESIGN</b>		
4.4.1	Describe the rationale and design intent for the major elements of the proposed development (including reference to the Principles of Good Design (2014), prepared by the Office for Design and Architecture SA) and measures to mitigate their visual impact.	Chapter 4, Chapter 23
4.4.2	Provide details of construction materials, colours and landscaping for all buildings and structures.	Chapter 4 & Chapter 23
4.4.3	Describe how the design and construction of all buildings and structures will be controlled to ensure environmental sustainability and cohesive visual amenity.	Chapter 4, Chapter 23, Chapter 24 Appendix AA – Construction Environmental Management Plan
<b>4.5 TRANSPORT AND ACCESS</b>		
4.5.1	Identify the traffic impacts on the local and arterial road network, including the Port Neill Access/Lincoln Highway intersection and locations for rail crossings of the Lincoln and Birdseye Highways, during both construction and operation. A Traffic Impact Assessment should be undertaken, taking into consideration existing traffic data, accident statistics and predicted traffic volumes (including vehicle types, numbers/frequencies and traffic peaks).	Chapter 18

Item	Requirements	EIS Chapters / Appendices
4.5.2	Detail any infrastructure improvements that will be required to provide safe and efficient car parking and road access to the Port and/or Construction Village, along with the Long Term Employee Village adjacent to Wudinna, including any potential junction / intersection treatments on the arterial road network.	Chapter 4, Chapter 18
4.5.3	Describe access and parking arrangements for all vehicles during construction, including any approvals and specific access requirements for over-dimensional vehicles.	Chapter 4
4.5.4	Describe the requirements and management aspects for the future rail operations including, impact on the existing rail network, fuelling locations, maintenance facilities, noise management, access to / across the corridor (particularly where land in contiguous ownership is bisected by the corridor), fencing of the corridor and speed of trains.	Chapter 4, Chapter 12, Chapter 18
4.5.5	Assess all proposed level crossings along the route against Australian Standard AS1742 Manual of uniform traffic control devices, Part 7 – Railway crossings (AS1742.7) and DPTI's Operational Instruction OI 7.9 Railway Level Crossing Treatments for Restricted Access Vehicles, (paying particular attention to the safety implications and possible changes in transport routes with regards to school buses) of proposed treatments and identifying any design issues that need to be addressed.	Chapter 4, Chapter 18
<b>4.6 ECONOMIC DEVELOPMENT</b>		
4.6.1	Provide a full economic analysis of the proposal including the long term economic viability of the development.	Chapter 21
4.6.2	Outline the financial strategies to be employed to ensure the relevant infrastructure is in place for each stage of the development.	Chapter 1
4.6.3	Identify the economic effect the construction and on-going workforce will have locally and regionally, including preparing a South Australian Industry Participation Plan (see <a href="http://www.icn.org.au">www.icn.org.au</a> ).	Chapter 21
4.6.4	Describe the land tenure arrangements during and after construction.	Chapter 8
<b>4.7 RISK/HAZARD MANAGEMENT</b>		
4.7.1	Describe the use of 'veneering' on the iron concentrate storage stockpiles at Cape Hardy and any dust management issues and/or any potential contamination of storm water runoff from stockpiles.	Chapter 4, Chapter 10, Chapter 15

Item	Requirements	EIS Chapters / Appendices
4.7.2	Detail procedures to be adopted to confirm whether site contamination exists (such as site history, site audit and site contamination reporting) and any remedial measures proposed, including potential acid sulphate soils.	Chapter 17
4.7.3	Detail management measures that will be required during construction and operation to prevent site contamination.	Chapter 15, Chapter 16, Chapter 17 Appendix AA – Construction Environmental Management Plan Appendix BB – Operational Environmental Management Plan
4.7.4	Describe procedures and strategies to prevent, manage and mitigate ship oil spills, pollution spills or sewage leaks at the port.	Chapter 14, Chapter 24 Appendix Q – Marine Environment Technical Report Appendix AA – Construction Environmental Management Plan Appendix BB – Operational Environmental Management Plan
4.7.5	For any areas where liquids (other than rainwater) are proposed to be stored, describe measures (including bunding) to minimise the risk of environmental harm from spills and leaks.	Chapter 17, Chapter 24 Appendix AA – Construction Environmental Management Plan Appendix BB – Operational Environmental Management Plan
4.7.6	Detail measures and strategies for the management of hazardous, flammable or explosive materials, including risk contours.	Chapter 24 Appendix AA – Construction Environmental Management Plan Appendix BB – Operational Environmental Management Plan Risk contours not provided at this stage given level of risk
4.7.7	Identify the flooding risk to the site from seawater inundation (including inundation exacerbated by sea level rise) and extreme rainfall events.	Chapter 7, Chapter 14, Chapter 15
4.7.8	Detail fire management processes and measures to reduce bushfire risk, particularly the risk from electricity and rail infrastructure to the Hambidge Wilderness Protection Area.	Chapter 13, Chapter 24 Appendix AA – Construction Environmental Management Plan Appendix BB – Operational Environmental Management Plan
4.7.9	Describe strategies for ensuring public safety during construction and operation.	Chapter 4, Chapter 24 Appendix AA – Construction Environmental Management Plan Appendix BB – Operational Environmental Management Plan
<b>4.8 EFFECTS ON COMMUNITIES</b>		
4.8.1	Outline the likely size and composition of the construction and operational workforce and other employees, how accommodation requirements will be met and detail employment opportunities for the local community, including the multiplier effect.	Chapter 4, Chapter 21, Chapter 22

Item	Requirements	EIS Chapters / Appendices
4.8.2	Describe the expected effects of the additional workforce on community infrastructure and services (including recreation, health, education, child care and other local human services) and how these are proposed to be managed.	Chapter 21, Chapter 22
4.8.3	Describe the potential positive and negative social impacts that could result from an increased population and how this is proposed to be managed.	Chapter 22
4.8.4	Outline the impact of the project on existing land uses (including grazing/ cropping/ conservation or National Park land). Include potential impacts on fences, water supply and stock watering points, movement of agricultural machinery and grain trucks.	Chapter 8, Chapter 18, Chapter 22
4.8.5	Detail opportunities for local Aboriginal vocational training and employment.	Chapter 21, Chapter 22
4.8.6	Describe the impacts on the tourism and recreation values of the respective area due to increased human activity and disturbance.	Chapter 22
4.8.7	Describe the impact on neighbouring land and water users, such as primary production, commercial fishing and aquaculture, including the need for adequate separation distances from adjoining uses, and the effects of access loss due to increased shipping traffic and anchorages.	Chapter 10, Chapter 14, Chapter 22
4.8.8	Describe and illustrate the visual effect of the proposed development on the locality when viewed from important viewing points, including from the land and sea.	Chapter 23
4.8.9	Describe the use of amenity/landscape plantings and potential broad scale revegetation, including the opportunities for the use of locally endemic species.	Chapter 13, Chapter 23
4.8.10	Describe the consultation strategy adopted in the preparation of the EIS.	Chapter 6
<b>4.9 ABORIGINAL HERITAGE</b>		
4.9.1	<p>Describe the measures taken in consultation with the Department of State Development Aboriginal Affairs and Reconciliation (DSD-AAR) to identify the Aboriginal heritage in the project area, including the outcomes of:</p> <ul style="list-style-type: none"> <li>• A request for a search of the Register of Aboriginal Sites and</li> <li>• Objects maintained by DSD-AAR</li> <li>• Discussion with the relevant Traditional Owners</li> <li>• Engagement of an expert archaeologist/anthropologist to assist with the assessment of any heritage sites</li> </ul>	Chapter 6, Chapter 19

Item	Requirements	EIS Chapters / Appendices
4.9.2	Describe the measures put in place to manage the risk of damaging, disturbing or interfering with any heritage that has been identified by the consultation undertaken above and any plans to deal with the discovery of Aboriginal heritage during work activities. If avoidance has not been possible in the project design, please detail the steps taken in consultation with DSD-AAR to ensure that any unavoidable damage, disturbance and interference is done in compliance with the Aboriginal Heritage Act 1988.	Chapter 19, Chapter 24 Appendix AA – Construction Environmental Management Plan Appendix BB – Operational Environmental Management Plan
<b>4.10 NATIVE TITLE</b>		
4.10.1	Identify any Native Title issues in respect of the requirements of the Native Title Act 1993.	Chapter 5, Chapter 8, Chapter 19
4.10.2	Describe the impact on the appropriate Native Title Claimants and the consequent impact on the potential ongoing enjoyment of native title rights (if any) by native title holders.	Chapter 19
4.10.3	Describe how Aboriginal heritage protection is being dealt with in the context of any measures taken to comply with the Native Title Act 1993.	Chapter 19
<b>4.11 EUROPEAN OR OTHER HERITAGE</b>		
4.11.1	Identify the impact on the heritage significance of any known non-aboriginal heritage places on or adjacent the site, including state or local heritage places entered on the South Australian Heritage Register ( <a href="http://www.sa.gov.au">www.sa.gov.au</a> ), or identified after consultation with the Department of Environment, Water and Natural Resources, the District Councils of Tumby Bay, Cleve, Kimba and Wudinna or community groups.	Chapter 20
4.11.2	Identify measures to protect any historic shipwrecks with the port/coastal area during construction, in accordance with the Historic Shipwrecks Act 1981.	There are no shipwrecks in the area and thus no measures to protect have been included.
<b>4.12 EFFECTS ON INFRASTRUCTURE REQUIREMENTS</b>		
4.12.1	Outline the requirements for an adequate supply and the location of distribution networks for gas, electricity, water, sewerage, stormwater management, waste management, wastewater treatment and disposal, communications systems and roads infrastructure, including any potential costs and/or savings to state and Local Government of infrastructure expansion beyond the site boundaries.	Chapter 4, Chapter 15, Chapter 16, Chapter 18
4.12.2	Outline opportunities to incorporate best practice infrastructure design.	Chapter 4

Item	Requirements	EIS Chapters / Appendices
<b>4.13 CONSTRUCTION AND OPERATIONAL EFFECTS</b>		
4.13.1	Provide a draft environmental management plan, for both construction and operational activities, for all components of the development.	Chapter 24 Appendix AA – Construction Environmental Management Plan Appendix BB – Operational Environmental Management Plan
4.13.2	Outline the timing of construction and the time of year it is likely to occur.	Chapter 1, Chapter 4
4.13.3	Assess the requirement for any hazardous exclusion zones around the proposed jetty during ship loading activities, including the tug harbour.	Port operating limit shown in Chapter 4.
4.13.4	Describe the level of cut and fill required and the effect on the natural topography of the site, including the access corridors and the storage of concentrate area.	Chapter 4
4.13.5	Where possible, identify the source and origin of construction materials for buildings and infrastructure (such as road making) and the opportunity for the use of recycled materials.	Chapter 4
4.13.6	Provide information about the transport and storage of construction materials to minimise effects on the local environment.	Chapter 4, Chapter 18
4.13.7	Identify measures to stabilise disturbed areas and areas susceptible to soil erosion.	Chapter 15, Chapter 17, Chapter 24 Appendix AA – Construction Environmental Management Plan Appendix BB – Operational Environmental Management Plan
4.13.8	Describe the implementation of environmentally acceptable work practices and monitoring programs.	Chapter 24 Appendix AA – Construction Environmental Management Plan Appendix BB – Operational Environmental Management Plan
4.13.9	Describe the management agreements between the District Councils of Tumby Bay, Cleve, Kimba and Wudinna and the proponent during and after construction.	Individual agreements with each Council will be developed following approvals.
4.13.10	Detail long-term management/maintenance arrangements for the operation and decommissioning of the facility, including the ownership of land and infrastructure, sand management and any coastal protection measures	Long term decommissioning arrangements are not covered as the main assets are assumed to exist in perpetuity. Coastal protection measures outlined in: Chapter 24 Appendix BB – Operational Environmental Management Plan
4.13.11	Describe the rehabilitation strategy to be adopted if the development ceases prior to completion or during any stage of the development.	Broader rehabilitation strategies included in: Chapter 24 Appendix AA – Construction Environmental Management Plan Appendix BB – Operational Environmental Management Plan