Skardon River Bauxite Project

Appendix 3 - Terms of Reference

Cross Reference Table
APPENDIX 3 – TERMS OF REFERENCE CROSS REFERENCE TABLE

GULF ALUMINA LTD – SKARDON RIVER BAUXITE PROJECT
## Terms of Reference Cross Reference Table

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<tr>
<th>ToR Section</th>
<th>ToR Requirement</th>
<th>EIS Reference</th>
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</thead>
<tbody>
<tr>
<td><strong>1</strong> General Approach</td>
<td></td>
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<tr>
<td><strong>1.1</strong></td>
<td>For the purposes of the EIS process, ‘environment’ is defined in section 8 of the EP Act.</td>
<td>noted</td>
</tr>
<tr>
<td><strong>1.2</strong></td>
<td>The EIS should give priority to the critical matters associated with the project (specified in section 7 of the TOR).</td>
<td>Refer below</td>
</tr>
<tr>
<td><strong>1.3</strong></td>
<td>The detail in which the EIS deals with matters relevant to the project should be proportional to the scale of the impacts on environmental values. When determining the scale of an impact, consider its intensity, duration, cumulative effect, irreversibility, the risk of environmental harm, management strategies and offsets provisions.</td>
<td>Chapter 1, section 1.13, section 1.14</td>
</tr>
<tr>
<td><strong>1.5</strong></td>
<td>Each chapter of the EIS must include a summary of impacts and proposed mitigation measures.</td>
<td>Executive summary, all chapters</td>
</tr>
<tr>
<td><strong>1.5</strong></td>
<td>Notwithstanding the requirements of this TOR, should a substantive issue be identified in the preparation of the EIS, this matter should be fully addressed in the EIS.</td>
<td>All chapters</td>
</tr>
<tr>
<td><strong>2</strong> Mandatory Requirements of an EIS</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>2.1</strong></td>
<td>Describe the project including all aspects subject to this assessment. The project description should include all on and off lease activities relevant to the project including construction, operation and decommissioning activities. If the delivery of the project is to be staged, the nature and timing of the stages should be fully described.</td>
<td>Chapter 4, Chapter 5, Chapter 6, Chapter 7</td>
</tr>
<tr>
<td><strong>2.2</strong></td>
<td>For all the relevant matters, the EIS must identify and describe the environmental values(^1) that must be protected. Environmental values are specified in the EP Act, the EP Regulation, environmental protection policies (EPPs) and relevant guidelines(^2).</td>
<td>Chapter 8 to Chapter 26</td>
</tr>
<tr>
<td><strong>2.3</strong></td>
<td>The assessment should cover both the short and long-term scenarios and state whether any relevant impacts are likely to be irreversible.</td>
<td>Chapter 8 to Chapter 26</td>
</tr>
<tr>
<td><strong>2.4</strong></td>
<td>Provide all available baseline information relevant to the environmental risks of the project. Provide details about the quality of the information provided, in particular: the source of the information; how recent the information is; how the reliability of the information was tested; and any uncertainties in the information.</td>
<td>Chapter 8 to Chapter 26</td>
</tr>
</tbody>
</table>

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\(^1\) Defined in section 9 of the EP Act. See also 125(l)(i)(A) of the EP Act.

\(^2\) For example, the Queensland Water Quality Guidelines and the Australian and New Zealand Guidelines for Fresh and Marine Water Quality (refer to Appendix 1 for details).
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<tr>
<th>ToR Section</th>
<th>ToR Requirement</th>
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</thead>
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<tr>
<td>2.5</td>
<td>Demonstrate how the construction, operation and decommissioning (to the extent known) of the project would be consistent with best practice environmental management and would meet all statutory and regulatory requirements of the Commonwealth, state and local government. In general, the hierarchy for managing likely impacts is: (a) to avoid; (b) to minimise or mitigate; and (c) if necessary, and possible, to offset. Where relevant, avoidance and mitigation strategies and actions should be described in the context of EHP model conditions.</td>
<td>Chapter 1 to Chapter 26</td>
</tr>
<tr>
<td>2.6</td>
<td>Provide detailed strategies in regard to all critical matters for the protection, or enhancement as desirable, of all relevant environmental values in terms of outcomes and possible conditions that can be measured and audited.</td>
<td>Chapter 5, Chapter 6, Chapter 7, Chapter 10, Chapter 11, Chapter 12, Chapter 13, Chapter 15, Chapter 16, Chapter 17, Chapter 18</td>
</tr>
<tr>
<td>2.7</td>
<td>Impact minimisation measures should include ongoing monitoring and implementation of an adaptive management approach, as relevant, based on monitoring. The proposed measures should provide confidence that, based on current technologies, the impacts can be effectively managed over the long-term.</td>
<td>Chapter 5 to Chapter 26</td>
</tr>
<tr>
<td>2.8</td>
<td>Present feasible alternatives of the project’s configuration (including individual elements) that may improve environmental outcomes. Discuss the consequences of not proceeding with the project.</td>
<td>Chapter 1, section 1.10 Chapter 5</td>
</tr>
<tr>
<td>2.9</td>
<td>For unproven elements of a resource extraction or processing process, technology or activity, identify and describe any global leading practice environmental management that would apply.</td>
<td>Chapter 5</td>
</tr>
<tr>
<td>3</td>
<td>Further requirements of an EIS</td>
<td>All chapters</td>
</tr>
<tr>
<td>3.1</td>
<td>The assessment and supporting information should be sufficient for the administering authority to decide whether an approval should be granted. Sufficient information should be included to enable approval conditions, such as the existing model EA conditions, to be utilised.</td>
<td>All chapters</td>
</tr>
<tr>
<td>ToR Section</td>
<td>ToR Requirement</td>
<td>EIS Reference</td>
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</table>
| 3.2         | To the extent of the information available, the assessment should endeavour to predict the cumulative impact of the project on environmental values over time and in combination with impacts created by the activities of other adjacent and upstream and downstream developments and landholders—as detected by baseline monitoring. This will inform the decision on the EIS and the setting of conditions. The absence of a comprehensive cumulative impacts analysis need not be fatal to the project. The EIS should also outline ways in which the cumulative impact assessment and management could subsequently be progressed further on a collective basis. | Chapter 11, section 11.11  
Chapter 12, section 12.12  
Chapter 13, section 13.11  
Chapter 14, section 14.7  
Chapter 15, section 15.13  
Chapter 16, section 16.12  
Chapter 17, section 17.8  
Chapter 18, section 18.15  
Chapter 19, section 19.7  
Chapter 20, section 20.8  
Chapter 22, section 22.5  
Chapter 23, section 23.12  
Chapter 25, section 25.10  
Chapter 26, section 26.14 |
| 3.3         | Include a consolidated description of all the proponent’s commitments to implement management measures (including monitoring programs). Should the project proceed, these should be able to be carried over into the approval conditions as relevant.                                                                                                                                                                                                                           | Appendix 1                                                                 |
| 3.4         | Provide all geographical coordinates throughout the EIS in latitude and longitude against the Geocentric Datum of Australia 1994 (GDA94).                                                                                                                                                                                                                                                                          | All EIS chapters and appendices                                             |
| 3.5         | An appropriate public consultation program is essential to the impact assessment process. The proponent should consult with local, Queensland and Australian government authorities, and potentially affected local communities.                                                                                                                                                                                                        | Chapter 3, Chapter 25                                                                                           |
| 3.6         | The EIS should describe the consultation that has taken place and how the responses from the community and agencies have been incorporated into the design and outcomes of the project. Any proposed future consultation activities should be described as well as how the results of this consultation will be used in the ongoing management of the project.                                                                                                                                 | Chapter 3  
Chapter 25, section 25.6, section 25.8, section 25.9 |
| 4           | Executive Summary                                                                                                                                                                                                                                                                                                                                                                                                   | Executive Summary                                                                                           |
| 4.1         | The executive summary should describe the project and convey the most important and preferred aspects and environmental management commitments relating to the project in a concise and readable form. It should use plain English, avoid jargon, be written as a stand-alone document and be structured to follow the EIS. It should be easy to reproduce and distribute on request to those who may not wish to read or purchase the whole EIS.                                                                 | Executive Summary                                                                                           |
| 5           | Introduction                                                                                                                                                                                                                                                                                                                                                                                                        | Chapter 1, section 1.1                                                                                           |
| 5.1         | Clearly explain: the function of the EIS,                                                                                                                                                                                                                                                                                                                                                                           | Chapter 1, section 1.1                                                                                           |

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3 Cumulative impact is defined as ‘combined impacts from all relevant sources (developments and other activities in the area)’
<table>
<thead>
<tr>
<th>ToR Section</th>
<th>ToR Requirement</th>
<th>EIS Reference</th>
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<tbody>
<tr>
<td>5.1</td>
<td>why it has been prepared and</td>
<td>Chapter 1, section 1.1</td>
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<tr>
<td></td>
<td></td>
<td>Chapter 2, section 2.1 to section 2.8</td>
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<tr>
<td>5.1</td>
<td>what it sets out to achieve.</td>
<td>Chapter 1, sections 1.1, 1.4</td>
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<td></td>
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<td>Chapter 2, section 2.1 to section 2.8</td>
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<td>Chapter 6, section 6.1</td>
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<td>Chapter 9, section 9.1</td>
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<td>Chapter 10, section 10.2</td>
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<td>Chapter 11, section 11.2</td>
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<td>Chapter 12, section 12.2, section 12.5</td>
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<td>Chapter 13, section 13.2</td>
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<td>Chapter 25, section 25.2</td>
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<td>Chapter 26, section 26.1 Appendix 1 - Commitments Register</td>
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<tr>
<td>5.1</td>
<td>Include an overview of the structure of the document.</td>
<td>Chapter 1, section 1.16</td>
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<tr>
<td>Project proponent</td>
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<td>5.2</td>
<td>Describe the proponent’s experience, including:</td>
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<td>• the designated proponent’s full name, postal address and Australian Business</td>
<td>Chapter 1, section 1.2</td>
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<td>Number, if relevant (including details of any joint venture partners)</td>
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<td></td>
<td>• the nature and extent of business activities</td>
<td>Chapter 1, section 1.2 to Section 1.7</td>
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<td></td>
<td>• environmental record, including a list of any breach of relevant environmental</td>
<td>Chapter 1, section 1.3</td>
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<td>laws during the previous 10 years</td>
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<tr>
<td>ToR Section</td>
<td>ToR Requirement</td>
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<td></td>
<td>▪ the proponent’s environmental, health, safety and community policies.</td>
<td>Appendix 11</td>
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<td></td>
<td><strong>The environmental impact assessment process</strong></td>
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</tbody>
</table>
| 5.3         | The EIS should describe the environmental impact assessment process to ensure readers are informed of the process to be followed and are aware of any opportunities for input and participation. | Chapter 1, section 1.11 to 1.14  
Chapter 2, section 2.7 to 2.9  
Chapter 3, section 3.3, section 3.4, section 3.5 |
| 5.4         | Inform the reader how and when properly made public submissions on the EIS will be addressed and taken into account in the decision-making process. | Chapter 1, section 1.2  
Chapter 3, section 3.4.2 |
|             | **Project approvals process**                                                   |                                                                              |
| 5.5         | Describe the approvals required to enable the project to be constructed and operated. | Chapter 2, section 2.1 to section 2.15  
Chapter 1, section 1.1, section 1.5, section 1.11, section 1.12,  
Chapter 2, section 2.1 to section 2.15 |
|             | Explain how the environmental impact assessment process (and the EIS itself) informs the issue of the leases/licences/permits/consents required by the proponent before construction can commence and that would allow for the operation of the project. | Chapter 2, section 2.1 to section 2.15 |
|             | Provide a flow chart indicating the key approvals and opportunities for public comment. Guidance on typical associated approvals can be accessed from https://www.business.qld.gov.au/industry | Chapter 2, section 2.1 to section 2.15 |
| 6           | **Project description**                                                         |                                                                              |
| 6.1         | The EIS must describe and illustrate at least the following specific information about the proposed project: |                                                                              |
|             | ▪ the project’s title                                                          | Chapter 1, section 1.1                                                      |
|             | ▪ the project, its objectives, and expected capital expenditure                 | Chapter 1, section 1.1, section 1.7, section 1.9  
Chapter 25, section 25.9 |
|             | ▪ rationale for the project                                                    | Chapter 1, section 1.4, section 1.5, section 1.10 |
|             | ▪ the nature and scale of activities to be undertaken and whether it is a greenfield or brownfield site | Chapter 5, section 5.1, to section 5.7  
Chapter 6 |
<p>|             | ▪ the regional and local context of the project’s footprint (with maps at suitable scales) | Chapter 4, section 4.1, section 4.2, section 4.3, section 4.4, section 4.5 |</p>
<table>
<thead>
<tr>
<th>ToR Section</th>
<th>ToR Requirement</th>
<th>EIS Reference</th>
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<td></td>
<td>▪ relationship to other major projects (of which the proponent should reasonably be aware)</td>
<td>Chapter 3, section 3.3</td>
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<td>Chapter 4, section 4.2.4, section 4.3.2.</td>
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<td></td>
<td>▪ the workforce numbers to be employed by the project during its various phases, where personnel would be accommodated and, where relevant, the likely recruitment and rostering arrangements to be adopted</td>
<td>Chapter 5, section 5.4.4, section 5.5.10, section 5.5.11, section 5.5.12 Chapter 25, section 25.8.1</td>
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<td></td>
<td>▪ the proposed construction staging and likely schedule of works.</td>
<td>Chapter 5, section 5.4, section 5.5.5</td>
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<td>6.2</td>
<td>Describe and show on plans, at an appropriate scale, the proposed methods and facilities to be used for product storage and for transferring product from the processing facility to the storage facilities and/or from the storage facilities to the transport facilities. Descriptions should include all infrastructure elements appropriate to the project proposal, including haul and access roads, causeways, stockpile areas, barge loading facilities and any areas of bed levelling. Include discussion of any environmental design features of these facilities including bunding of storage facilities.</td>
<td>Chapter 5, section 5.5 Chapter 6, section 6.4, section 6.5</td>
</tr>
<tr>
<td>Site description</td>
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<tr>
<td>6.3</td>
<td>Provide real property descriptions of</td>
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<td>the project land and adjacent properties; any easements; any underlying resource tenures; and</td>
<td>Chapter 1, section 1.6</td>
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<td>Chapter 4, section 4.3</td>
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<td>Chapter 11, section 11.4</td>
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<td>identification number of any resource activity lease for the project land that is subject to application.</td>
<td>Chapter 1, section 1.6</td>
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<td>Chapter 4, section 4.3.1</td>
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<td></td>
<td>Key transport, state-controlled roads, air, haul roads, floating off-shore transhipment facility, port/sea and other infrastructure in the region relevant to the project and to the site should be described and mapped.</td>
<td>Chapter 4, section 4.3, section 4.4 Chapter 5, section 5.3, section 5.4, section 5.5 Chapter 22, section 22.4 to 22.8</td>
</tr>
<tr>
<td>ToR Section</td>
<td>ToR Requirement</td>
<td>EIS Reference</td>
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</table>
| **6.4**     | Describe and illustrate the topography of the project site and surrounding area, and highlight any significant features shown on the maps.  
Maps should have contours at suitable increments relevant to the scale, location, potential impacts and type of project, shown with respect to Australian Height Datum (AHD) and drafted to Geocentric Datum of Australia 1994 (GDA94). | Chapter 4, section 4.3, section 4.5  
Chapter 10, section 10.4  
Chapter 12, section 12.4  
Chapter 17, section 17.4  
Chapter 21, section 21.4 |
| **6.5**     | Where appropriate, describe and map in plan and cross-sections the geology and terrestrial and coastal landforms, including catchments, of the project area. | Chapter 10, section 10.4  
Chapter 12, section 12.4  
Chapter 13, section 13.5  
Chapter 17, section 17.4 |
|             | Show geological structures, such as aquifers, faults, coastal and marine resources and economic resources that could have an influence on, or be influenced by, the project’s activities. | Chapter 10, section 10.4  
Chapter 12, section 12.4  
Chapter 13, section 13.5  
Chapter 17, section 17.4 |
| **6.6**     | Where appropriate, describe, map and illustrate soil types and profiles of the project area at a scale relevant to the proposed project. | Chapter 7, section 7.4  
Chapter 10, section 10.4.5, section 10.4.6 |
|             | Identify soils that would require particular management due to wetness, erosivity, depth, acidity, salinity or other feature, including acid sulphate soils | Chapter 10, section 10.4.5, section 10.4.6, section 10.5.3, 10.6  
Chapter 17, section 17.4.13, section 17.4.14, section 17.5.10, section 17.5.11 |
| **Climate** | **6.7** | Describe the site’s climate patterns that are relevant to the environmental assessment, with particular regard to discharges to water and air and the propagation of noise.  
Climate information should be presented in a statistical form including long-term averages and extreme values, as necessary. | Chapter 9, section 9.2, section 9.3 |
|             | **6.8** | Identify the vulnerability of the area to natural and induced hazards, including floods, bushfires and cyclones. | Chapter 9, section 9.3  
Chapter 14, section 14.3, section 14.4, section 14.5  
Chapter 23, section 23.10 |
|             | Consider the relative frequency and magnitude of these events together with the risk they pose to the construction, operation and rehabilitation of the project. | Chapter 9, section 9.3.8  
Chapter 14, section 14.6  
Chapter 23, section 23.12 |
<table>
<thead>
<tr>
<th>ToR Section</th>
<th>ToR Requirement</th>
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</table>
|            | Measures that would be taken to minimise the risks of these events should be described | Chapter 6, section 6.4, section 6.5  
Chapter 7, section 7.4, section 7.6  
Chapter 8, section 8.6, section 8.7  
Chapter 9, section 9.3  
Chapter 23, section 23.13, section 23.14 |
| Proposed construction and operations | 6.9 Describe the following information about the proposal: |                                                                                     |
|            | existing infrastructure (including existing marine / port infrastructure) and easements on the potentially affected land | Chapter 5, section 5.2, section 5.3                                                                                                         |
|            | the proposed extractive and processing methods, associated equipment and techniques | Chapter 5, section 5.3, section 5.4, section 5.5                                                                                                           |
|            | the sequencing and staging of activities                                           | Chapter 5, section 5.4, section 5.5.1, section 5.5.5                                                                                                          |
|            | the chemicals or hazardous materials to be used                                   | Chapter 5, section 5.5.15, section 5.5.16  
Chapter 8, section 8.3, section 8.5  
Chapter 11, section 11.5, section 11.8, section 11.9  
Chapter 23, section 23.9 |
|            | the locations of new or altered infrastructure necessary for the project at all stages of its development, including on and off lease areas | Chapter 4, section 4.4  
Chapter 5, section 5.2, to section 5.5,  
Chapter 6, section 6.4, section 6.5  
Chapter 22, section 22.4 to 22.8 |
<p>|            | any on or off lease project activity that is a prescribed environmentally relevant activity | Chapter 2, section 2.10, section 2.13                                                                                                           |</p>
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</table>
|             | ▪ supply of goods and services including likely procurement models for both the construction and operation phases | Chapter 5, section 5.4, section 5.5  
Chapter 8, section 8.6  
Chapter 11, section 11.9  
Chapter 22, section 22.4 to 22.8 |
|             | ▪ product markets, including shipping details, destinations, transhipment operations, export routes. | Chapter 1, section 1.4  
Chapter 5, 5.5.23  
Chapter 22, section 22.7 |

7 Assessment of critical matters

7.1 This section sets out the scope of critical matters that should be given detailed treatment in the EIS. A critical matter is an aspect of the proposal that has one or more of the following characteristics:

▪ a high or medium probability of causing serious or material environmental harm or a high probability of causing an environmental nuisance

5 'Material environmental harm', ‘serious environmental harm’ and ‘environmental nuisance’ are defined in Part 3, sections 15, 16 and 17 of the Environmental Protection Act 1994.

▪ considered important by the administering authority and/or there is a public perception that an activity has the potential to cause serious or material environmental harm or an environmental nuisance, or, the activity has been the subject of extensive media coverage

▪ land, flora and fauna (see section 8.2)

▪ identified matters of state environmental significance (MSES) under the State Planning Policy (July 2014) (see section 8.2)

▪ water quality (see section 8.4)

▪ coastal environment (see section 8.14).
<table>
<thead>
<tr>
<th>ToR Section</th>
<th>ToR Requirement</th>
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</tr>
</thead>
<tbody>
<tr>
<td>7.2</td>
<td>The final scope of critical matters will be determined by the administering authority when finalising the TOR. In the course of preparing the EIS, information may become available that warrants a change of scope.</td>
<td>TOR finalised January 2015</td>
</tr>
</tbody>
</table>

**Matters of national environmental significance**

| 7.3         | The Australian Government Environment Minister has determined that the project has impacts on MNES (EPBC 2014/7305). The assessment of the potential impacts, mitigation measures and any offsets for residual impacts must be dealt with in a stand-alone section of the EIS that fully addresses the matters relevant to the controlling provisions. Refer to Appendix 2 for detailed MNES TOR requirements and EPBC Act controlling provisions. The information provided on these matters must be consistent with the relevant aspects of other sections in the EIS, for example Section 8.2 Flora and fauna. | Chapter 26 |

8 Assessment of routine matters

8.1 Routine matters

8.1.1 The following subsections list the routine matters for resource projects, with (where applicable) a reference to the objectives defined in the EP Regulation. In some cases, not all the matters may be relevant, while in others the list may not be exhaustive. Where applicable, refer to the objective of the EP Regulation (section 3) to ensure ecologically sustainable development is achieved. Refer below
<table>
<thead>
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<th>ToR Section</th>
<th>ToR Requirement</th>
<th>EIS Reference</th>
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<tr>
<td>8.1.2</td>
<td>For each routine matter identified below, the level of detail should be proportional to the scale of potential impacts. As a minimum, the proponent should supply sufficient information that confirms the risks/impacts to the environment are not significant.</td>
<td>Refer below</td>
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<tr>
<td>8.2</td>
<td><strong>Land, flora and fauna (this is also a critical matter under section 7)</strong></td>
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<tr>
<td>8.2</td>
<td><strong>Objectives and performance outcomes</strong></td>
<td>Chapter 1, sections 1.1, 1.4</td>
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<td>The environmental objectives to be met under the EP Act are that the:</td>
<td>Chapter 2, section 2.1 to</td>
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<td>▪ activity is operated in a way that protects the environmental values of land including soils, subsoils, landforms and associated terrestrial, aquatic, coastal and marine flora and fauna</td>
<td>section 2.8</td>
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<td>▪ choice of the site, at which the activity is to be carried out, minimises serious environmental harm on areas of high conservation value and special significance and sensitive land uses at adjacent places</td>
<td>Chapter 6, section 6.1</td>
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<td>▪ location for the activity on a site protects all environmental values relevant to adjacent sensitive use</td>
<td>Chapter 7, section 7.3</td>
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<td>▪ design of the facility permits the operation of the site, at which the activity is to be carried out, in accordance with best practice environmental management.</td>
<td>Chapter 8, section 8.2</td>
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<td></td>
<td>The performance outcomes corresponding to these objectives are in Schedule 5, Tables 1 and 2 of the EP Regulation. The proponent should supply sufficient evidence (including through studies and proposed management measures) that show these outcomes can be achieved.</td>
<td>Chapter 10, section 10.2</td>
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<td>Chapter 26, section 26.1</td>
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<td><strong>Information requirements—land use</strong></td>
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| **8.2.1**   | Describe potential impacts of the proposed land uses taking into consideration the proposed measures that would be used to avoid or minimise impacts. The impact prediction must address: | Chapter 11, section 11.4, section 11.6, section 11.7  
Chapter 21, section 21.4, section 21.5, section 21.6 |
|             | - landscape (including visual amenity) and land uses in and around the project area, referring to regional plans and local government planning schemes | Chapter 4, section 4.3.2  
Chapter 11, section 11.6.8 |
|             | - any existing mining, petroleum, geothermal and greenhouse gas storage tenures overlying or adjacent to the project site, and any to be applied for as part of this project | Chapter 11, section 11.4.7 |
|             | - any infrastructure proposed to be located within, or which may have impacts on, the Stock Route Network. | Chapter 2, section 2.15.8  
Chapter 4, section 4.2.3  
Chapter 11, section 11.3.1  
section 11.4, section 11.6.5  
Chapter 25, section 25.4.1, section 25.5. |
| **8.2.2**   | Address the requirements of the Cape York Regional Plan, Queensland Government, August 2014. | Chapter 6, section 6.4, section 6.5  
Chapter 5, section 5.2, section 5.3  
Chapter 7, section 7.5, section 7.6  
Chapter 8, section 8.5, section 8.6.3, section 8.6.4, section 8.8  
Chapter 10, section 10.5  
Chapter 11, section 11.5, section 11.6, section 11.7, section 11.8, section 11.9  
Chapter 17, section 17.5  
Chapter 23, section 23.9, section 23.11, section 23.12 |
| **8.2.4**   | Detail any known or potential sources of contaminated land that could be impacted by the project. Describe how any proposed land use may result in land becoming contaminated. | Chapter 6, section 6.4, section 6.5  
Chapter 5, section 5.2, section 5.3  
Chapter 7, section 7.5, section 7.6  
Chapter 8, section 8.5, section 8.6.3, section 8.6.4, section 8.8  
Chapter 10, section 10.5  
Chapter 11, section 11.5, section 11.6, section 11.7, section 11.8, section 11.9  
Chapter 17, section 17.5  
Chapter 23, section 23.9, section 23.11, section 23.12 |
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<tr>
<td>8.2.5</td>
<td>Identify existing or potential native title rights and interests possibly impacted by the project and the potential for managing those impacts by an Indigenous Land Use Agreement or other measure.</td>
<td>Chapter 2, section 2.14, Chapter 3, section 3.2.2, section 3.3, section 3.5, Chapter 4, section 4.2.2, section 4.3.4, section 4.3.5, Chapter 24, section 24.4</td>
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<td><strong>Information requirements—rehabilitation</strong></td>
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<td>8.2.6</td>
<td>The EIS should provide information based on relevant guidelines, current best practice approaches and legislative requirements about the strategies and methods for progressive and final rehabilitation of the environment disturbed by the project and decommissioning.</td>
<td>Chapter 7, section 7.2, section 7.3, section 7.4, section 7.5, section 7.6, section 7.7, Chapter 8, section 8.5.5, Chapter 10, section 10.5, (section 10.6), Chapter 11, section 11.3.2, Chapter 15, section 15.8</td>
</tr>
<tr>
<td>8.2.7</td>
<td>Develop a preferred rehabilitation strategy that would minimise the amount of land disturbed at any one time, and minimise the residual loss of land and water bodies with ecological or productive value. Show the expected final topography of the site with any excavations, waste areas and dam sites on suitably scaled maps. Illustrate the proposed final land uses.</td>
<td>Chapter 5, section 5.5, Chapter 7, section 7.2, section 7.3, section 7.4, section 7.5, section 7.6, Chapter 10, section 10.6</td>
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<tr>
<td>8.2.8</td>
<td>Describe and illustrate where final voids, mined areas and uncompacted overburden and workings at the end of operations would lie in relation to flood levels in the Skardon River and its local tributaries adjacent to the mine, and Namaleta Creek.</td>
<td>Chapter 14, section 14.3, section 14.4</td>
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<td>8.2.9</td>
<td>Describe rehabilitation success criteria that would be used to measure progress and completion.</td>
<td>Chapter 7, section 7.4, section 7.6</td>
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<td>8.2.10</td>
<td>Notwithstanding that management techniques may improve over the life of the project, and legislative requirements may change, the EIS needs to give confidence that all potential high-impact elements of the project (e.g. spoil dumps, voids, tailings and water management dams, creek diversions, etc.) are capable of being managed and rehabilitated to achieve acceptable land use capabilities/suitability, to be stable and self-sustaining and to prevent upstream and downstream surface and groundwater contamination.</td>
<td>Chapter 6, section 6.4 section 6.5, Chapter 7, section 7.4, section 7.5, section 7.6, Chapter 12, section 12.8 to section 12.10, Chapter 13, section 13.6, section 13.7, section 13.8, section 13.9</td>
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<td><strong>Information requirements—flora and fauna</strong></td>
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| 8.2.11      | Describe the likely impacts on the biodiversity and natural environmental values of affected areas arising from the construction, operation and eventual decommissioning of the project (where known).  
Take into account any proposed avoidance and/or mitigation measures.  
The assessment should include, but not be limited to, the following key elements: | Chapter 15  
Chapter 16  
Chapter 18  
Chapter 15, section 15.6  
Chapter 15, section 15.7, section 15.8  
Chapter 15, section 15.9, section 15.10, section 15.11  
Chapter 16, section 16.6, section 16.7, section 16.8  
Chapter 16, section 16.9, section 16.10  
Chapter 17, section 17.5, section 17.6, section 17.7, section 17.8  
Chapter 18, section 18.6, section 18.7, section 18.8  
Chapter 18, section 18.9, section 18.10, section 18.11, section 18.12, section 18.13, section 18.15  
Chapter 21, section 21.4, section 21.5  
Chapter 26, section 26.4 to section to 26.13 |
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<td>• chronic, low-level exposure to contaminants or the bio-accumulation of contaminants</td>
<td>Chapter 6, section 6.4 and section 6.5</td>
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<td>• impacts on marine, terrestrial and aquatic ecosystems and associated native flora and fauna due to wastes and pollutants at the site, particularly those related to any form of toxicants in:</td>
<td>Chapter 8, section 8.5, section 8.6</td>
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<td>▪ surface and groundwater</td>
<td>Chapter 11, section 11.8, section 11.9</td>
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<td>▪ natural water courses</td>
<td>Chapter 12, section 12.8 to 12.10</td>
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<td>▪ stormwater run-off</td>
<td>Chapter 15, section 15.6, section 15.7, section 15.8, section 15.9, section 15.10, section 15.11</td>
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<td>▪ surface run-off</td>
<td>Chapter 16, section 16.6, section 16.7, section 16.8, section 16.9, section 16.10</td>
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<td>▪ run-off from any bunded areas holding chemicals and/or the sewage treatment plant</td>
<td>Chapter 17, section 17.5, section 17.6, section 17.7, section 17.8</td>
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<td>▪ run-off from surface spoil</td>
<td>Chapter 18, section 18.6, section 18.7, section 18.8, section 18.9, section 18.10, section 18.11, section 18.12, section 18.13, section 18.15</td>
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<td>• impact of waterway barriers on fish passage in all waterways mapped on the Queensland Waterways for Waterway Barrier Works spatial data layer</td>
<td>Chapter 2, section 2.13.18, Chapter 14, section 14.3.6, section 14.4.2, section 14.5, Chapter 16, section 16.7.3, 16.9.7</td>
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<td>• likely impacts of shipping and barge movements on estuarine and marine fauna.</td>
<td>Chapter 17, section 17.5, section 17.6, section 17.7, section 17.8</td>
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<td>Chapter 18, section 18.9, section 18.10, section 18.11, section 18.12, section 18.15</td>
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<td>Chapter 22, section 22.6, section 22.7, section 22.8</td>
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<td>8.2.12</td>
<td>Describe any actions of the project that require an authority under</td>
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|             | the *Nature Conservation Act 1992*, and/or are assessable development for the purposes of the *Vegetation Management Act 1999*,

\[\text{Section 2.15.6, Section 15.3, Section 15.6, Section 15.8, Section 15.8.5, Section 15.10, Section 16.3, Section 16.9, Section 18.3, Section 18.5, Section 18.8, Section 18.12}\]

\[\text{This}\] is notwithstanding that the *Vegetation Management Act 1999* does not apply to mining projects.                                                                                      | Chapter 2, section 2.15.6                                                                                               | Chapter 15, section 15.3, Section 15.6, Section 15.8, Section 15.8.5, Section 15.10 Chapter 16, section 16.3, Section 16.7, Section 16.9 Chapter 18, section 18.3, Section 18.5, Section 18.8, Section 18.12 |
<p>| | | |
|             |                                                                                                                                                                                                                |                                                                                                                                                                                                             |
|             | the <em>Fisheries Act 1994</em> and                                                                                                                                                                                  | Chapter 2, section 2.13.18                                                                                               | Chapter 16, section 16.9.7 Chapter 18, section 18.12 |
|             | the <em>Sustainable Planning Act 2009</em>                                                                                                                                                                           | Chapter 2, section 2.15                                                                                               |                                                                                                                                                                                                             |
| 8.2.13      | Propose practical measures for protecting or enhancing natural values, and assess how the nominated quantitative indicators and standards may be achieved for nature conservation management. In particular, address measures to protect or preserve any threatened or near-threatened species. | Chapter 2, section 2.13, Section 15.8, Section 15.10 Section 15.11 Chapter 16, section 16.7 Section 16.8, Section 16.9, Section 16.10 Chapter 17, section 17.6 Chapter 18, section 18.10, Section 18.11, Section 18.12, Section 18.13, Section 18.15 Chapter 26, section 26.10, Section 26.11, Section 26.12, Section 26.13 |
| 8.2.14      | Specifically address any obligations imposed by State or Commonwealth legislation or policy or international treaty obligations, such as the China–Australia Migratory Bird Agreement, Japan–Australia Migratory Bird Agreement, or Republic of Korea–Australia Migratory Bird Agreement. | Chapter 26, section 26.11                                                                                               |                                                                                                                                                                                                             |</p>
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<td>8.2.15</td>
<td>Assess the need for buffer zones and the retention, rehabilitation or planting of movement corridors, and propose measures that would avoid the need for waterway barriers, or propose measures to mitigate the impacts of their construction and operation.</td>
<td>Chapter 7, section 7.6 Chapter 15, section 15.7, section 15.7.2, section 15.8, section 15.10 Chapter 16, section 16.7, section 16.7.2, section 16.9 Chapter 18, section 18.10, section 18.11, section 18.15 Chapter 26, section 26.10 Chapter 5, section 5.4.2 Chapter 14, section 14.3.6 Chapter 14, section 14.4.2, section 14.5 Chapter 16, section 16.7.3, section 16.9 Chapter 7, section 7.4, section 7.6, section 7.6.2</td>
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<td>The measures proposed for the progressive rehabilitation of disturbed areas should include rehabilitation success criteria in relation to natural values that would be used to measure the progress.</td>
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<td>8.2.16</td>
<td>Describe how the achievement of the objectives would be monitored and audited, and how corrective actions would be managed.</td>
<td>Chapter 1, section 1.15 Chapter 6, section 6.4 Chapter 7, section 7.3, section 7.6.2, section 7.6.5 Chapter 8, section 8.6, section 8.7 Chapter 10, section 10.6 Chapter 11, section 11.9 Chapter 12, section 12.10 Chapter 13, section 13.9 Chapter 15, section 15.8 Chapter 16, section 16.7, section 16.7.11 Chapter 17, section 17.6 Chapter 18, section 18.10 Chapter 22, section 22.9 Chapter 26, section 26.10</td>
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<td>Proposals for the rehabilitation of disturbed areas should incorporate, where appropriate, provision of nest hollows and ground litter.</td>
<td>Chapter 15, section 15.8, section 15.8.4, section 15.8.5</td>
</tr>
<tr>
<td>8.2.17</td>
<td>Assess the role of buffer zones in sustaining fisheries resources through maintaining connectivity between coastal and riparian vegetation and estuarine and freshwater reaches of catchments.</td>
<td>Chapter 15, section 15.6.11, section 15.7, section 15.7.2 section 15.7.5, section 15.8.1, section 15.8.6 Chapter 16, section 16.7.2 Chapter 17, section 17.6.6 Chapter 18, section 18.10, section 18.11, section 18.12 Chapter 22, section 22.6.2, section 22.8, section 22.9</td>
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<td><strong>Offsets</strong></td>
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<td>8.2.18</td>
<td>Where Queensland legislation or a specific-issue offset policy requires an offset for a significant residual impact on a particular natural environmental value, the offset proposal(s) shall be presented in a form consistent with relevant legislation and policy.</td>
<td>Chapter 15, section 15.11 Chapter 16, section 16.10 Chapter 18, section 18.13 Chapter 26, section 26.13</td>
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<td>8.2.19</td>
<td>The proposed offsets should be consistent with the requirements set out in any applicable legislation or specific-issue offset policies. Where Commonwealth offset policy requires an offset for residual significant impacts on a MNES, the offset proposal(s) must be consistent with the requirements of the EPBC Act Environmental Offsets Policy (October 2012) and Offsets Assessment Guide.</td>
<td>Chapter 15, section 15.11 Chapter 16, section 16.10 Chapter 18, section 18.13 Chapter 26, section 26.13</td>
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<td>8.3</td>
<td><strong>Biosecurity</strong></td>
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<td>The construction and operation of the project should aim to ensure:                                                                                           - the introduction and spread of weeds, pests (including marine pests) and disease is minimised                                                                                           - existing weeds and pests, including marine pests, are controlled.</td>
<td>Chapter 15, section 15.7.7, section 15.8.7 Chapter 16, section 16.7.9 Chapter 18, section 18.9.11, section 18.10.7 Chapter 22, section 22.9.4</td>
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<td><strong>Information requirements</strong></td>
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| 8.3.1      | Propose detailed measures to control and limit the spread of pests and weeds on the project site and adjacent areas, particularly declared plants and animals under the Land Protection (Pest and Stock Route Management) Act 2002 and the Plant Protection Act 1989. Weed and pest animal management measures should be aligned with local government pest management priorities. | Chapter 15, section 15.7.7, section 15.8.7  
Chapter 16, section 16.7.9  
Chapter 18, section 18.9.11, section 18.10.8  
Chapter 22, section 22.8.4                                                                                                                                                                                                                           |
| 8.3.2      | Propose measures to control the introduction and limit the spread of marine pests.                                                                                                                                                                                                                                                                                                                                                               | Chapter 18, section 18.9.11, section 18.10.8  
Chapter 22, section 22.9.4                                                                                                                                                                                                                       |
| 8.4        | **Water quality (this is also a critical matter under section 7)**                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                   |
|            | **Objective and performance outcomes**                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                   |
|            | The environmental objectives to be met under the EP Act are that the activity (project) be operated in a way that:  
- minimises harm to the environmental values of waters, including freshwater, estuarine and marine  
- protects the environmental values of wetlands  
- protects the environmental values of groundwater and any associated surface ecological systems.  

The performance outcomes corresponding to this objective are in Schedule 5, Table 1 of the EP Regulation.  
The proponent should supply sufficient evidence (including through studies and proposed management measures) that show these outcomes can be achieved. | Chapter 12, section 12.2  
Chapter 13, section 13.2  
Chapter 14, section 14.2  
Chapter 17, section 17.2, section 17.4.11, section 17.4.12, section 17.4.13, section 17.4.14, section 17.6                                                                                                                                                                                                 |
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| **8.4.3**   | Detail the chemical and physical characteristics of surface waters, groundwater, estuarine and marine water within the area that may be affected by the project and at suitable reference locations. | Chapter 12, section 12.6, section 12.7  
Chapter 17, section 17.4.11 to 17.4.13 |
| **8.4.4**   | Identify how the development will buffer and manage potential impacts on significant wetlands, waterways and ecosystems. | Chapter 6, section 6.4, section 6.5  
Chapter 7, section 7.6  
Chapter 8, section 8.6  
Chapter 10, section 10.6  
Chapter 11, section 11.7.2, section 11.9  
Chapter 12, section 12.9, section 12.10  
Chapter 13, section 13.8, section 13.9  
Chapter 15, section 15.7, section 15.8  
Chapter 16, section 16.7, section 16.7.2 section 16.8, section 16.9  
Chapter 17, section 17.6  
Chapter 18, section 18.10, section 18.11, section 18.12  
Chapter 26, section 26.10, section 26.11, section 26.12 |
| **8.4.5**   | Identify the quantity, quality and location of all potential releases of contaminants | Chapter 5, section 5.4, section 5.5  
Chapter 6, section 6.4, section 6.5  
Chapter 8, section 8.5  
Chapter 11, Section 11.8, Section 11.9  
Chapter 12, Section 12.8  
Chapter 17, section 17.5  
Chapter 22, section 22.8, section 22.9 |
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<td>(such as spilled products during ship loading or disturbance of acid sulphate soil),</td>
<td>Chapter 5, section 5.4, section 5.5, Chapter 17, section 17.5, Chapter 22, section 22.8, section 22.9</td>
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<td>water and waste water from the project whether as point sources or diffuse sources (such as stormwater run-off and irrigation to land of treated sewage effluent).</td>
<td>Chapter 10, section 10.4.6, section 10.5.3, section 10.6.3, Chapter 17, section 17.5, section 17.4.14, section 17.5</td>
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<td>Assess the likely impacts of any releases on the quality and quantity of receiving waters taking into consideration the assimilative capacity of the receiving environment and the practices and procedures that would be used to avoid or minimise impacts, including erosion and sediment control strategies and compliance with the management hierarchy and management intent under the Environmental Protection (Water) Policy 2009.</td>
<td>Chapter 6, section 6.4, section 6.5, Chapter 8, section 8.5, section 8.6, Chapter 10, section 10.5, section 10.6, Chapter 11, section 11.8, Chapter 12, section 12.8</td>
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<tr>
<td>8.4.6</td>
<td>Identify the impacts of bed levelling and the offshore transhipment operation on marine water quality, including potential impacts on seagrass, coral and water quality due to increased water turbidity and other contaminants due to the disturbance of substrate, the disposal and/or relocation of material. Provide strategies to avoid and address potential impacts. Refer to section 8.14 (Coastal environment) for further information requirements on bed levelling.</td>
<td>Chapter 17, section 17.5, Chapter 18, section 18.9, section 18.10, section 18.11, section 18.13, section 18.15, Chapter 22, section 22.8, section 22.9</td>
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| **8.4.7**   | Describe how the achievement of the objectives would be monitored and audited, and how corrective actions would be managed. | Chapter 12, section 12.10  
Chapter 17, section 17.6  
Chapter 18, section 18.10, section 18.10.10  
Chapter 22, section 22.8, section 22.9 |

Identify standards and indicators which will be used to describe the ecological values and health of surface water environments.

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<th><strong>8.5</strong></th>
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| **Objectives** |  | Chapter 6  
Chapter 12  
Chapter 13  
Chapter 17 |

The construction and operation of the project should aim to meet the following objectives:

- equitable, sustainable and efficient use of water resources
- maintenance of environmental flows and water quality (freshwater, marine, estuarine, groundwater) to support the long term viability of aquatic, estuarine, coastal and marine ecosystems (including groundwater dependent ecosystems)
- the condition and natural functions of water bodies (e.g. lakes, springs, watercourses, wetlands, estuarine and marine) are maintained—including the stability of beds and banks of watercourses, coastal resources and values.

| **Information requirements** |  | Chapter 6, section 6.4 to section 6.5  
Chapter 14, section 14.3.6, section 14.5 |
|-----------------------------|-------------------|-----------------------------|
| **8.5.1** Provide details of any proposed impoundment, extraction, discharge, injection, use or loss of surface water or groundwater, including Great Artesian Basin groundwater. |  | Chapter 6, section 6.4 to section 6.5  
Chapter 13, section 13.5, section 13.5.5 |
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|             | Identify any approval or allocation that would be needed under the *Water Act 2000*. | Chapter 2, section 2.15.12  
Chapter 6, section 6.2 |
| **8.5.2**   | Detail any significant diversion or interception of overland flow (for example from lowering ground level due to mining). Include maps of suitable scale showing the location of diversions and other water-related mining infrastructure. | Chapter 5, section 5.5  
Chapter 6, section 6.4, section 6.5  
Chapter 13, section 13.7 |
| **8.5.3**   | Describe the options for supplying water to the project, and assess any potential consequential impacts in relation to the objectives of any water resource plan, resource operations plan and wild river declaration that may apply. | Chapter 2, section 2.15.12  
Chapter 6, section 6.2  
n/a |
| **8.5.4**   | Develop hydrological models as necessary to describe the inputs, movements, exchanges and outputs of all significant quantities of surface water and groundwater resources that may be affected by the project. The models should address the range of climatic conditions that may be experienced at the site and include a site water balance. This should enable a description of the project’s impacts and proposed mitigation strategy to manage these at the local scale and in a regional context including proposed: | Chapter 6, section 6.5  
Chapter 13, section 13.6, section 13.7  
Chapter 14, section 14.3 |
|             | changes in flow regimes (surface and groundwater) from mining operations, diversions, water take (including dewatering) and discharges | Chapter 6, section 6.5  
Chapter 13, section 13.6, section 13.7, section 13.8, section 13.9 |
|             | monitor and adopt measures to avoid impact on local swamps, notably Lunette and Bigfoot Swamps, Skardon River andNamaleta Creek | Chapter 6, section 6.5  
Chapter 12, section 12.10  
Chapter 13, section 13.6, section 13.7, section 13.8, section 13.9  
Chapter 16, section 16.7, section 16.7.11 |
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| 8.5.5       | Provide information on how clean storm water run-off would be kept separate from dirty surface water run-off. | Chapter 6, section 6.4  
Chapter 12, section 12.9 |
| 8.5.6       | Requirement of potable water needs to be outlined for the project, including the temporary demands during the construction period. Details should be provided of the proposed water supply to meet such requirements. | Chapter 6, section 6.5 |
|             | Describe onsite water storage and treatment requirements for use by the workforce. | Chapter 6, section 6.5 |
| 8.5.7       | Evaluate how security for existing lawful users of water, if any, will be maintained when the development is operational. | Chapter 6, section 6.5  
Chapter 11, section 11.5,  
section 11.6.3, section 11.7.1,  
section 11.8, section 11.9,  
section 11.10, section 11.11  
Chapter 13, section 13.5 |
| 8.6         | Flooding and regulated structures |  |
|             | Objective | Chapter 6  
Chapter 14 |
|             | The construction and operation of the project should aim to ensure the risk of, and the adverse impacts from flooding hazards or dam failure are avoided, minimised or mitigated to protect people, property and the environment |  |
| 8.6.1       | Describe current flood risk for a range of annual exceedence probabilities for potentially affected waterways and low lying areas. Assess how the project may potentially change flooding and run-off characteristics\(^7\). The assessment should consider all infrastructure associated with the project including levees, roads and linear infrastructure and all proposed measures to avoid or minimise impacts. | Chapter 14, section 14.3 to 14.6  
\(^7\) This may require the use of modelling or other appropriate analytical and predictive tools. |
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| 8.6.2       | List and describe all dams or levees proposed on the project site and undertake an assessment to determine the hazard category of each dam or levee (low, significant, or high), according to the criteria in the EHP Manual for Assessing Consequence Categories and Hydraulic Performance of Structures. Refer also to the requirements under section 8.13 Hazards and safety of the TOR. | Chapter 6, section 6.4, section 6.5  
Chapter 23, section 23.10 |
| 8.6.3 REPEATS 8.6.2 above | If applicable, list and describe all dams or levees proposed on the project site and undertake an assessment to determine the hazard category of each dam or levee (low, significant, or high), according to the criteria in the EHP Manual for Assessing Consequence Categories and Hydraulic Performance of Structures. | Chapter 6, section 6.4, section 6.5  
Chapter 23, section 23.10 |
| 8.6.4       | List hazards and safety risks associated with flooding, including safety risks to persons, and impacts of flooding on dams, levees and/or associated infrastructure located within or outside the project area. | Chapter 6, section 6.4  
Chapter 9, section 9.3.3, section 9.3.8  
Chapter 14, section 14.4 to section 14.6  
Chapter 23, section 23.10 |
<p>| 8.7         | Air             | Chapter 19    |
|             | Objectives and performance outcomes | |</p>
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<tr>
<td>8.7.1</td>
<td>Fully describe the characteristics (through an emissions inventory) of the contaminants or materials released when carrying out the activity (point source and fugitive emissions). Emissions (point source and fugitive) during construction, commissioning, upset conditions, operation and closure should be described.</td>
<td>Chapter 19, section 19.6, section 19.7, section 19.8</td>
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<td>8.7.2</td>
<td>Predict the impacts of the releases from the activity on environmental values of the receiving environment using recognised quality assured methods and/or relevant publically available information.</td>
<td>Chapter 19, section 19.7, section 19.8</td>
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<td>The description of impacts should take into consideration the assimilative capacity of the receiving environment and the practices and procedures that would be used to avoid or minimise impacts.</td>
<td>Chapter 19, section 19.5 to section 19.9</td>
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<td>The impact prediction must:</td>
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<td>▪ describe and illustrate the locations of sensitive receptors, e.g. existing residences, places of work, schools, etc., agricultural or ecologically significant species and habitats that could be impacted by emissions from the project</td>
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<td>▪ address residual impacts on the environmental values (including appropriate indicators and air quality objectives) of the air receiving environment, with reference to sensitive receptors(^8), using recognised quality assured methods and/or a review of relevant publically available information. This should include all relevant values potentially impacted by the activity, under the EP Act, EP Regulation and Environmental Protection (Air) Policy 2008 (EPP (Air)).</td>
<td>Chapter 19, section 19.7 to section 19.10</td>
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<td>▪ address the cumulative impact of the release with other estimates of releases of contaminants, materials or wastes associated with existing development and possible future development (as described by approved plans and existing project approvals).</td>
<td>Chapter 19, section 19.6, section 19.7</td>
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\(^8\) For example, the locations of existing residences, places of work, schools, etc., agricultural or ecologically significant areas/species that could be impacted.
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<td>▪ compare air quality guidelines with predicted values at sensitive receptor locations and/or the site boundary</td>
<td>Chapter 19, section 19.7, section 19.8, section 19.9, section 19.10</td>
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<td>▪ quantify the human health risk and amenity impacts associated with emissions from the project for all contaminants whether or not they are covered by the National Environmental Protection (Ambient Air Quality) Measure or the EPP (Air).</td>
<td>Chapter 19, section 19.7, section 19.9, section 19.10</td>
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<tr>
<td>8.7.3</td>
<td>Describe the proposed mitigation measures and how the proposed activity will be consistent with best practice environmental management. Where a government plan is relevant to the activity or site where the activity is proposed, describe the activity’s consistency with that plan.</td>
<td>Chapter 19, section 19.9</td>
</tr>
<tr>
<td>8.7.4</td>
<td>Describe how the achievement of the objectives would be monitored, audited and reported, and how corrective actions would be managed.</td>
<td>Chapter 19, section 19.7, section 19.9</td>
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<td>8.8</td>
<td><strong>Noise and vibration</strong></td>
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<td></td>
<td><strong>Objective and performance outcomes</strong></td>
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<td>The environmental objective to be met under the EP Act is that the activity will be operated in a way that protects the environmental values of the acoustic environment.</td>
<td>Chapter 20</td>
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<td>The performance outcomes corresponding to these objectives are in Schedule 5, Table 1 of the EP Regulation. The proponent should supply sufficient evidence (including through studies and proposed management measures) that show these outcomes can be achieved.</td>
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<td>8.8.1</td>
<td>Fully describe the characteristics of the noise and vibration sources that would be emitted when carrying out the activity (point source and general emissions). Noise and vibration emissions (including fugitive sources) that may occur during construction, commissioning, upset conditions, operation and closure should be described.</td>
<td>Chapter 20, section 20.6</td>
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| 8.8.2       | Predict the impacts of the noise emissions from the activity on the environmental values of the receiving environment, with reference to sensitive receptors, using recognised quality assured methods and/or relevant publically available information.                                                                                                                                                                                                                              | Chapter 20, section 20.4, section 20.6, section 20.7, section 20.8  
Chapter 18, section 18.9                                                                 |
|             | Taking into account the practices and procedures that would be used to avoid or minimise impacts, the impact prediction must address:                                                                                                                                                                                                                                                                                                                                                                                                    | Chapter 18, section 18.7, section 18.8, section 18.9, section 18.10  
Chapter 20, section 20.4, to section 20.7                                                                 |
|             | ▪ describe and illustrate the locations of sensitive receptors, e.g. existing residences, places of work, schools, etc., agricultural or ecologically significant species and habitats that could be impacted by emissions from the project activity’s consistency with the objectives                                                                                                                                                                                                                                                                  | Chapter 20, section 20.4, section 20.6                                                                                           |
|             | ▪ cumulative impact of the noise with other estimated emissions of noise associated with existing development and possible future development (as described by approved plans)                                                                                                                                                                                                                                                                                                   | Chapter 20, section 20.8                                                                                                              |
|             | ▪ potential impacts of any low-frequency (<200 Hz) noise emissions.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Chapter 20, section 20.6                                                                                                              |
| 8.8.3       | Describe how the proposed activity would be managed to be consistent with best practice environmental management for the activity. Where a government plan is relevant to the activity, or the site where the activity is proposed, describe the activity’s consistency with that plan.                                                                                                                                                                                                                                         | Chapter 20, section 20.7, section 20.9  
Chapter 18, section 18.10                                                                 |
| 8.8.4       | Describe how the achievement of the objectives would be monitored and audited, and how corrective actions would be managed.                                                                                                                                                                                                                                                                                                                                                                                                  | Chapter 20, section 20.7  
Chapter 18, section 18.10, section 18.10.10                                                                 |
| 8.9         | Waste management                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                               |
|             | Objective and performance outcomes                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                               |
The environmental objective to be met under the EP Act is that any waste transported, generated, or received as part of carrying out the activity is managed in a way that protects all environmental values.

The performance outcomes corresponding to these objectives are in Schedule 5, Table 1 of the EP Regulation. The proponent should supply sufficient evidence (including through studies and proposed management measures) that show these outcomes can be achieved.

### Information requirements

| 8.9.1 | Describe all the expected significant waste streams from the proposed project activities (such as vegetation, bauxite oversize material, excavated subsoil, reject bauxite, non-bauxite rock and general waste), during the construction, operational, rehabilitation and decommissioning phases of the project. | Chapter 5, section 5.3., section 5.5  
Chapter 6, section 6.4, section 6.5  
Chapter 8, section 8.5  
Chapter 10, section 10.4.3 to section 10.4.6  
Chapter 11, section 11.5  
Chapter 17, section 17.5  
Chapter 22, section 22.9.4  
Chapter 23, section 23.9, section 23.12.5 |
| 8.9.2 | Describe the quantity, form (liquid, solid, gas), hazard, and toxicity of each significant waste, as well as any attributes that may affect its likelihood of dispersal in the environment, | Chapter 5, 5.5  
Chapter 6, section 6.4, section 6.5  
Chapter 8, section 8.5  
Chapter 10, section 10.4.3 to section 10.4.6  
Chapter 11, section 11.5  
Chapter 17, section 17.5  
Chapter 22, section 22.9.4  
Chapter 23, section 23.9, section 23.12.5 |
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<td>as well the associated risk of causing environmental harm.</td>
<td>Chapter 6, section 6.4</td>
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<td>Chapter 8, section 8.6, section 8.7, section 8.8</td>
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<td>Chapter 10, section 10.6, section 10.7</td>
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<td>Chapter 11, section 11.8 to section 11.10</td>
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<td>Chapter 17, section 17.6, section 17.7, section 17.8</td>
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<td>Chapter 22, section 22.9, section 22.10</td>
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<td>Chapter 23, section 23.13, section 23.14</td>
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<td>8.9.3</td>
<td>Define and describe the objectives and practical measures for protecting or</td>
<td>Chapter 6, section 6.4</td>
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<td>enhancing environmental values from impacts by wastes.</td>
<td>Chapter 8, section 8.6, section 8.7, section 8.8</td>
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<td>Chapter 10, section 10.6, section 10.7</td>
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<td>Chapter 11, section 11.8 to section 11.10</td>
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<td>Chapter 17, section 17.2, section 17.6, section 17.7, section 17.8</td>
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<td>Chapter 22, section 22.3, section 22.8, section 22.9</td>
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<td>Chapter 23, section 23.13, section 23.14</td>
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<td>8.9.4</td>
<td>Assess the proposed management measures against the preferred waste management</td>
<td>Chapter 6, section 6.5</td>
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<td>hierarchy, namely: avoid waste generation; cleaner production; recycle; reuse;</td>
<td>Chapter 8, section 8.2, section 8.3, section 8.6</td>
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<td>reprocess and reclaim; waste to energy; treatment; disposal. This includes the</td>
<td>Chapter 11, section 11.8 to section 11.10</td>
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<td>generation and storage of waste.</td>
<td>Chapter 17, section 17.6, section 17.7, section 17.8</td>
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<td>Chapter 22, section 22.8, section 22.9</td>
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<td>Chapter 23, section 23.13, section 23.14</td>
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| 8.9.5       | Describe how nominated quantitative standards and indicators may be achieved for waste management, and how the achievement of the objectives would be monitored, audited and managed. | Chapter 6, section 6.4, section 6.5  
Chapter 8, section 8.6, section 8.7  
Chapter 11, section 11.8 to section 11.10  
Chapter 17, section 17.6, section 17.7, section 17.8  
Chapter 22, section 22.8, section 22.9  
Chapter 23, section 23.13, section 23.14 |
| 8.9.6       | Detail waste management planning for the proposed project especially how these concepts have been applied to prevent or minimise environmental impacts due to waste at each stage of the project. | Chapter 6, section 6.4, section 6.5  
Chapter 8, section 8.6, section 8.7  
Chapter 11, section 11.8 to section 11.10  
Chapter 17, section 17.6, section 17.7, section 17.8  
Chapter 22, section 22.8, section 22.9  
Chapter 23, section 23.13, section 23.14 |
<p>| 8.9.7       | Describe how the code requirements of the State Planning Policy (July 2014), in particular ‘Ship-sourced pollutants reception facilities in marinas’ would be complied with in the design of the project and in any subsequent approvals. | Chapter 22, section 22.7, section 22.8, section 22.8.4 |
| 8.10        | Cultural heritage | Chapter 24 |
|             | Objective | Chapter 24 |
|             | The construction and operation of the project should aim to ensure that the nature and scale of the project does not compromise the cultural heritage significance of a heritage place or heritage area. | Chapter 24 |
|             | Information requirements | |</p>
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<td><strong>8.10.1</strong></td>
<td>Unless section 86 of the <em>Aboriginal Cultural Heritage Act 2003 (ACH Act)</em> applies, the proponent must develop a Cultural Heritage Management Plan in accordance with the requirements of Part 7 of the ACH Act.</td>
<td>Chapter 24, section 24.2, section 24.3, section 24.5</td>
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<tr>
<td><strong>8.10.2</strong></td>
<td>For non-Indigenous historical heritage, undertake a study of, and describe, the known and potential historical cultural and landscape heritage values of the area potentially affected by the project.</td>
<td>Chapter 24, section 24.2, section 24.3, section 24.6</td>
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<td>Provide strategies to mitigate and manage any negative impacts on non-Indigenous cultural heritage values and enhance any positive impacts.</td>
<td>Chapter 24, section 24.5, section 24.6</td>
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<td><strong>8.11</strong></td>
<td><strong>Social and economic</strong></td>
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</table>
|             | **Objectives** | Chapter 3  
Chapter 25 |
|             | The construction and operation of the project should aim to:  
- avoid or mitigate adverse social and economic impacts arising from the project  
- capitalise on opportunities potentially available to affected communities for capable local industries and communities where this does not have a significant negative impact on the project or reduce net economic benefits to the state | |
|             | **Information requirements** | Chapter 25, section 25.8, section 25.9, section 25.10 |
| **8.11.1**  | Describe the likely social impacts (positive and negative) on affected communities taking into account proposed mitigation measures. | |
| **8.11.2**  | Describe the likely impacts (positive and negative) of the project on the economies materially impacted by the project.  
The analysis should describe both the potential and direct economic impacts including estimated costs, if material, on industry and the community. | Chapter 25, section 25.9, section 25.10 |
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<td><strong>8.11.3</strong></td>
<td>The assessment should identify opportunities to capture the economic benefits of the project, including:</td>
<td>Chapter 25, section 25.8, section 25.9</td>
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<td>▪ strategies for ensuring local suppliers of goods and services receive full, fair and reasonable opportunity to tender for work throughout the life of the project through adopting policies such as the Queensland Resources and Energy Sector Code of Practice for Local Content administered by Queensland Resources Council</td>
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<td>▪ employment strategies for local residents, and for members of Indigenous communities and people with a disability across Queensland</td>
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<td>▪ opportunities to support the agricultural and tourism industries</td>
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<td>▪ recruitment and training programs to be offered.</td>
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<td><strong>8.11.4</strong></td>
<td>Identify recreational, commercial or indigenous fisheries potentially impacted and undertake consultation.</td>
<td>Chapter 3, section 3.5</td>
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<td>Chapter 22, section 22.6</td>
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<td>Chapter 25, section 25.3, section 25.5, section 25.7, section 25.8</td>
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<td><strong>8.12</strong></td>
<td>Transport</td>
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<td>Objectives</td>
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<td>The construction and operation of the project should aim to:</td>
<td>Chapter 22</td>
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<td>▪ maintain the safety and efficiency of all affected transport modes for the project workforce and other transport system users</td>
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<td>▪ minimise and mitigate impacts on the condition of transport infrastructure</td>
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<td>▪ ensure any required works are compatible with existing infrastructure and future transport corridors.</td>
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<td><strong>8.12.1</strong></td>
<td>The EIS should include a clear summary of the total transport task for the project (construction, production and decommissioning), including workforce (fly in–fly out arrangements), inputs and outputs, during the construction and operational phases.</td>
<td>Chapter 5, section 5.4, section 5.5</td>
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<td>Chapter 22, section 22.4, section 22.5, section 22.6, section 22.7</td>
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<td>Proponents should make appropriate modal choices to ensure transport efficiency and minimise impacts on the community</td>
<td>Chapter 5, section 5.4, section 5.5</td>
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<td>Chapter 22, section 22.4, section 22.5, section 22.6, section 22.7</td>
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<td>8.12.2</td>
<td>Present the transport assessment in separate sections for each project affected mode (road, air and sea) as appropriate for each phase of the project.</td>
<td>Chapter 22, section 22.4, section 22.5, section 22.6, section 22.7</td>
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<td>8.12.3</td>
<td>Include details of the adopted assessment methodology:</td>
<td>Chapter 22, section 22.2, section 22.4</td>
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<td> for impacts on roads: the road impact assessment report in accordance with the Guidelines for Assessment of Road Impacts of Development</td>
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<td> for impacts on maritime operations: the Maritime Safety Queensland Guidelines for major development proposals.</td>
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<td>Chapter 22, section 22.2, section 22.8, section 22.9</td>
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<tr>
<td>8.12.4</td>
<td>Discuss and recommend how identified impacts will be mitigated so as to meet the above objectives for each transport mode.</td>
<td>Chapter 22, section 22.8, section 22.9</td>
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<td>Mitigation strategies may include works, contributions or management plans and are to be prepared in close consultation with relevant transport authorities (including local government).</td>
<td>Chapter 23, section 23.12.1, section 23.13</td>
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<td>Strategies should consider those transport authorities’ works program and forward planning, and be in accordance with the relevant methodologies, guidelines and design manuals.</td>
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<tr>
<td>8.13</td>
<td>Hazards and safety</td>
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<tr>
<td></td>
<td>Objectives</td>
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</table>
The construction and operation of the project should aim to ensure:
- the risk of, and the adverse impacts from, natural and man-made hazards are avoided, minimised or mitigated to protect people and property
- the community’s resilience to natural hazards is maintained or enhanced
- developments involving the storage and handling of hazardous materials are appropriately located, designed and constructed to minimise health and safety risks to communities and individuals and adverse effects on the environment.

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<thead>
<tr>
<th>ToR Section</th>
<th>ToR Requirement</th>
<th>EIS Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chapter 9</td>
<td>Describe the potential risks to people and property that may be associated with the project in the form of a preliminary risk assessment for all components of the project and in accordance with relevant standards. The assessment should include:</td>
<td>Chapter 9, section 9.3</td>
</tr>
<tr>
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<td>potential hazards, accidents, spillages, fire and abnormal events that may occur during all stages of the project, including estimated probabilities of occurrence</td>
<td>Chapter 11, section 11.10</td>
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<td>identifying all hazardous substances to be used, stored, processed or produced and the rate of usage</td>
<td>Chapter 11, section 11.9</td>
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<td>potential wildlife hazards, natural events (e.g. cyclone, storm tide inundation, flooding, bushfire) and implications related to climate change.</td>
<td>Chapter 9, section 9.3</td>
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<td>Chapter 23, section 23.10, section 23.11, section 23.12, section 23.13</td>
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</table>
|             | ▪ a description of natural hazards that may affect the site and at a minimum the 1% annual exceedance probability (AEP) or 100 year average reoccurrence interval (ARI) level, including mapping of the potential hazard areas at the site                                                                                       | Chapter 9, section 9.3  
Chapter 14, section 14.4, section 14.5  
Chapter 23, section 23.10, section 23.11, section 23.12, section 23.13                                                                                                                                                                                                                                               |
|             | ▪ how development will avoid or mitigate the risks and how the development sitting and layout responds to these hazards to minimise risks to personal safety and assets                                                                                                                                                                                                                                                                       | Chapter 9, section 9.3  
Chapter 11, section 11.9  
Chapter 14, section 14.5  
Chapter 23, section 23.13, section 23.14                                                                                                                                                                                                                                                                               |
|             | ▪ how natural processes and the protective function of landforms and vegetation will be maintained in sea erosion and storm tide inundation areas                                                                                                                                                                                                                                                                                    | Chapter 17, section 17.4.5, section 17.5, section 17.6                                                                                                                                                                                                                                                                     |
|             | ▪ how the development will avoid the release of hazardous materials as a result of a natural hazard events.                                                                                                                                                                                                                                                                                                                                                                                            | Chapter 9, section 9.3  
Chapter 11, section 11.9  
Chapter 23, section 23.13, section 23.14                                                                                                                                                                                                                                                                               |
| 8.13.2      | Provide details on the safeguards that would reduce the likelihood and severity of hazards, consequences and risks to persons, within and adjacent to the project area(s).                                                                                                                                                                                                                                                                       | Chapter 11, section 11.9  
Chapter 23, section 23.13, section 23.14                                                                                                                                                                                                                                                                               |
|             | Identify the residual risk following application of mitigation measures.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Chapter 9, section 9.3  
Chapter 11, section 11.9  
Chapter 23, section 23.12                                                                                                                                                                                                                                                                               |
|             | Present an assessment of the overall acceptability of the impacts of the project in light of the residual uncertainties and risk profile.                                                                                                                                                                                                                                                                                                                                                  | Chapter 9, section 9.3  
Chapter 11, section 11.10  
Chapter 14, section 14.6  
Chapter 17, section 17.7  
Chapter 23, section 23.12                                                                                                                                                                                                                                                                               |
| 8.13.3      | Provide an outline of the proposed integrated emergency management planning procedures (including evacuation plans, if required) for the range of situations identified in the risk assessment developed in this section.                                                                                                                                                                                                                                                   | Chapter 23, section 23.14                                                                                                                                                                                                                                                                                               |
| 8.13.4      | Outline any consultation undertaken with the relevant emergency management authorities, including the Local Disaster Management Group.                                                                                                                                                                                                                                                                                       | Chapter 3, section 3.4, section 3.5  
Chapter 23, section 23.14                                                                                                                                                                                                                                                                                               |
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<th>ToR Section</th>
<th>ToR Requirement</th>
<th>EIS Reference</th>
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<tbody>
<tr>
<td>8.14</td>
<td>Coastal environment (this is also a critical matter under section 7)</td>
<td>Chapter 2, Chapter 17, Chapter 18</td>
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</tbody>
</table>

**Objectives**

- The construction and operation of the project should aim to ensure that all relevant state and Commonwealth legislation and guidelines are considered that relate to the coastal environment.
- The activity is developed and operated in a way that avoids environmental harm including impacts on terrestrial, estuarine, coastal and marine environmental values.
- The activity is developed and operated in a way that avoids and minimises adverse impacts on coastal processes, resources and scenic amenity of important natural coastal landscapes, views and vistas.
- The activity is to be carried out in accordance with best practice environmental management.
- The performance outcomes correspond to the relevant policies, legislation and guidelines and that sufficient evidence is supplied (including through studies and proposed management measures) that show these outcomes can be achieved.

**Information requirements**

<table>
<thead>
<tr>
<th>8.14.1</th>
<th>Describe the existing coastal environment, potential impacts, mitigation measures and possible offsets related to the project in the context of all state and Commonwealth legislation and guidelines.</th>
<th>Chapter 2, section 2.13</th>
<th>Chapter 17, section 17.4, section 17.5, section 17.6</th>
<th>Chapter 18, section 18.3 to section 18.13</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.14.2</td>
<td>Provide a description of the coastal processes relevant to coast affected by the project. This should include a description of the physical processes of the terrestrial, estuarine, coastal and marine environment.</td>
<td>Chapter 17, section 17.4, section 17.5, section 17.6</td>
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<tr>
<td>8.14.3</td>
<td>Provide a description of physical and chemical characteristics of soils and sediments within the terrestrial, estuarine, coastal and marine environment potentially affected by the project</td>
<td>Chapter 10, section 10.4</td>
<td>Chapter 17, section 17.4</td>
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|             | This is to include acid sulphate soils. | Chapter 10, section 10.4  
Chapter 17, section 17.4 |
| 8.14.4      | Provide details of the proposed bed levelling operations,  
including a schedule of ongoing maintenance requirements, at the mouth of the Skardon River including: | Chapter 5, section 5.5.22  
Chapter 17, section 17.4  
Chapter 17, section 17.6 |
|             | ▪ navigation requirements of vessels trans-shipping material from the site including width, depth and location of navigation channels, turning basin or other works | Chapter 17, section 17.6  
Chapter 22, section 22.8,  
section 22.9 |
|             | ▪ location, volume, and the chemical and physical characteristics of the material (sediments) to be removed, reprofiled or relocated to provide navigational access | Chapter 5, section 5.5.22  
Chapter 17, section 17.4,  
section 17.5 |
|             | ▪ a description of the works necessary to maintain navigational access including equipment, timing, duration and tidal requirements | Chapter 17, section 17.5  
Chapter 17, section 17.6  
Chapter 22, section 22.8,  
section 22.9 |
|             | ▪ review of the historical behaviour of the river channel and mouth including channel migration and sand bank movements and how such changes will be addressed in the future where they impact on navigation | Chapter 17, section 17.5  
Chapter 17, section 17.6 |
|             | ▪ expected frequency of future bed levelling campaigns to maintain navigational access | Chapter 5, section 5.5.22  
Chapter 17, section 17.5,  
section 17.6 |
|             | ▪ location for the disposal of levelled material where this material is in excess of bed levelling capacity for required channel depth | Chapter 5, section 5.5.22  
Chapter 17, section 17.5,  
section 17.6 |
|             | ▪ a description of the impact of works on other river users or adjacent communities | Chapter 17, section 17.6  
Chapter 22, section 22.6,  
section 22.7, section 22.8,  
section 22.9 |
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<th>ToR Section</th>
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</table>
|             | prediction of potential impacts on marine environments, including direct and indirect impacts such as from physical disturbance and sediment plumes during construction and ongoing impacts during operations. | Chapter 17, section 17.5  
Chapter 18, section 18.9 to section 18.12 |
|             | management of associated impacts on sensitive environments such as seagrasses and coral reefs. | Chapter 17, section 17.6  
Chapter 18, section 18.10 |
| 8.14.5      | Develop and describe suitable indicators for measuring coastal resources and values, and set objectives to protect them in accordance with relevant State Planning Policy July 2014, guidelines and legislation. | Chapter 17, section 17.4,  
section 17.6  
Chapter 18, section 18-2,  
section 18.10, section 18.11,  
section 18.12, section 18.13 |
| 8.14.6      | Identify development outside the mining leases that is assessable development within the coastal zone, requiring approval under the Sustainable Planning Act 1999. Refer to the Department of State Development Infrastructure and Planning for relevant assessment requirements and guidance material⁹. | Chapter 2, section 2.13 |
| 8.14.7      | Detail a monitoring program that would audit the success of mitigation measures, measure whether objectives have been met, and describe corrective actions to be used if monitoring shows that objectives are not being met. | Chapter 17, section 17.6  
Chapter 18, section 18.10.10 |
| 9           | Appendices to the EIS | |

# Skardon River Bauxite Project
## Appendix 3 – Terms of Reference Cross Reference Table

<table>
<thead>
<tr>
<th>ToR Section</th>
<th>ToR Requirement</th>
<th>EIS Reference</th>
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</thead>
</table>
| 9.1         | Appendices should provide the complete technical evidence used to develop assertions and findings in the main text of the EIS | Appendix 4 – Water Management  
Appendix 5 – Terrestrial Ecology  
Appendix 6 – Aquatic Ecology  
Appendix 7 – Stygofauna  
Appendix 8 – Marine Ecology and Coastal Processes  
Appendix 9 – Air Quality  
Appendix 10 – Noise and Vibration  
Appendix 13 – Environmental Management Plan  
Appendix 14 – Draft Environmental Authority Conditions |
| 9.2         | No significant issue or matter should be mentioned for the first time in an appendix—it must be addressed in the main text of the EIS | All Chapters |
| 9.3         | Include a table listing the section of the EIS where each requirement of the TOR is addressed. | Appendix 3 – TOR Cross Reference Table. |
| 9.4         | Include a glossary of terms and a list of acronyms and abbreviations. | Appendix 2 – Acronyms and Abbreviations |

### Matters of national environmental significance

| 1           | Background and description of the action | Chapter 26, Section 26.1 |

The Assessment Documentation must provide background to the action and describe in detail all components of the action for example (but not limited to), the construction, operational and (if relevant) decommissioning components of the action. This must include the precise location of all works to be undertaken (including associated offsite works and infrastructure), structures to be built or elements of the action that may have impacts on matters of national environmental significance (MNES).
<table>
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<tr>
<th>ToR Section</th>
<th>ToR Requirement</th>
<th>EIS Reference</th>
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<tbody>
<tr>
<td></td>
<td>The description of the action must also include details on how the works are to be undertaken (including stages of development and their timing) and design parameters for those aspects of the structures or elements of the action that may have relevant impacts.</td>
<td>Chapter 26, Section 26.1</td>
</tr>
<tr>
<td></td>
<td>The Assessment Documentation must include how the action relates to any other actions (of which the proponent should reasonably be aware) that have been, or are being, taken or that have been approved in the region affected by the action.</td>
<td>Chapter 26, section 26.14</td>
</tr>
<tr>
<td></td>
<td>The Assessment Documentation must also provide details on the current status of the action as well as the consequences of not proceeding with the action.</td>
<td>Chapter 26, section 26.1</td>
</tr>
<tr>
<td>2</td>
<td><strong>The environment including MNES</strong></td>
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<td>The Assessment Documentation must include a description of the environment and management practices of the proposal site and the surrounding areas and other areas that may be affected by the action. Include the relevant MNES protected by controlling provisions of Part 3 of the EPBC Act.</td>
<td>Chapter 26, section 26.2 to 26.12</td>
</tr>
<tr>
<td>2(a)</td>
<td>Listed threatened species and communities (including suitable habitat) that are or are likely to be present in the vicinity of the site, including the following details:</td>
<td>Chapter 26, section 26.2, section 26.3, section 26.4, section 26.6, section 26.7, section 26.11</td>
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<tr>
<td></td>
<td>- Details of the scope, timing/effort (survey season/s) and methodology for studies or surveys used to provide information on the listed species/community/habitat at the site (and in areas that may be impacted by the project). Include details of:</td>
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<td>- best practice survey guidelines are applied</td>
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<td>- how they are consistent with (or a justification for divergence from) published Australian Government guidelines and policy statements.</td>
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<td>Include any relevant plans/agreements</td>
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</table>
### ToR Section 2(b)

Listed migratory species (including suitable habitat) that are or are likely to be present in the vicinity of the site, including the following details:

- Details of the scope, timing/effort (survey season/s) and methodology for studies or surveys used to provide information on the listed species/habitat at the site (and in areas that may be impacted by the project).
  - Include details of:
    - best practice survey guidelines are applied
    - how these are consistent with (or a justification for divergence from) published Australian Government guidelines and policy statements.


|---------------|-------------------------------------------------------------------------------------------|

### ToR Section 2(c)

A description of the environment relevant for part of the Commonwealth Marine (for actions outside the Commonwealth marine area that may impact the environment in the Commonwealth marine area).

Note: whole of the marine environment must be considered—refer to the EPBC Act Policy Statement 1.1 Significant Impact Guidelines—Matters of National Environmental Significance (2013).

|---------------|------------------------------------------|

### ToR Section 3

Impacts
<table>
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<th>ToR Section</th>
<th>ToR Requirement</th>
<th>EIS Reference</th>
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</table>
| 3(a)        | The Assessment Documentation must include a description of all of the relevant impacts of the action on MNES (identified in Section 2). Impacts during the construction, operational and (if relevant) the decommissioning phases of the project must be addressed, and the following information provided:  
  - a description of the relevant direct, indirect and consequential impacts of the action  
  - a detailed analysis of the nature and extent of the likely direct, indirect and consequential impacts relevant to MNES, including likely short-term and long-term impacts  
  - a statement whether any relevant impacts are likely to be unknown, unpredictable or irreversible any technical data and other information used or needed to make a detailed assessment of the relevant impacts. | Chapter 26, section 26.8, section 26.9, section 26.12 |
| 3(b)        | The Assessment Documentation should identify and address cumulative impacts, where potential project impacts are in addition to existing impacts of other activities (including known potential future expansions or developments by the proponent and other proponents in the region and vicinity). | Chapter 26, Section 26.14                         |
| 3(c)        | The Assessment Documentation should also provide a detailed assessment of any likely impact that this proposed action may facilitate on the relevant MNES at the local, regional, state and national scale. Reference should be made to the EPBC Act Policy Statement 1.1 Significant Impact Guidelines—Matters of National Environmental Significance (2013). | Chapter 26, section 26.7, 26.8, section 26.9, section 26.10, section 26.11, section 26.12 |
| 4           | **Avoidance and mitigation measures/alternatives**                                                                                                                                                           |                                                   |
| 4.1         | The Assessment Documentation must provide information on proposed avoidance and mitigation measures to manage the relevant direct, indirect and consequential impacts of the action on MNES. | Chapter 26, section 26.10                         |
The Assessment Documentation also must take into account relevant agreements and plans that cover impacts on MNES including but not limited to:

a) approved conservation advice for relevant listed threatened species and communities

b) any Marine Bioregional Plans relevant to the proposed action—with reference to the Marine Bioregional Plan for the North Marine Region.

The Assessment Documentation must discuss how the proposed action is not inconsistent with:

a) any relevant threat abatement plan for listed threatened species and communities

b) any relevant recovery plan for listed threatened species and communities

c) relevant conventions and agreements of which a migratory species is listed, including the Bonn Convention, CAMBA, JAMBA and agreements relevant to the conservation of the species.

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<td></td>
<td>The Assessment Documentation also must take into account relevant agreements and plans that cover impacts on MNES including but not limited to:</td>
<td>Chapter 26, section 26.7, section 26.11</td>
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<tr>
<td></td>
<td>a) approved conservation advice for relevant listed threatened species and communities</td>
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<td>b) any Marine Bioregional Plans relevant to the proposed action—with reference to the Marine Bioregional Plan for the North Marine Region.</td>
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<td>The Assessment Documentation must discuss how the proposed action is not inconsistent with:</td>
<td>Chapter 26, Section 26.8, section 26.9, section 26.10, section 26.11</td>
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<tr>
<td></td>
<td>a) any relevant threat abatement plan for listed threatened species and communities</td>
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<tr>
<td></td>
<td>b) any relevant recovery plan for listed threatened species and communities</td>
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<td>c) relevant conventions and agreements of which a migratory species is listed, including the Bonn Convention, CAMBA, JAMBA and agreements relevant to the conservation of the species.</td>
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<td>The Assessment Documentation must include, and substantiate, specific and detailed descriptions of the proposed avoidance and mitigation measures, based on best available practices and must include the following elements:</td>
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<td></td>
<td>a) A consolidated list of avoidance and mitigation measures proposed to be undertaken to prevent or minimise for the relevant impacts of the action on MNES, including:</td>
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<td>- a description of proposed avoidance and mitigation measures to deal with relevant impacts of the action, including mitigation measures proposed to be taken by State/Territory governments, local governments or the proponent</td>
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<td>- assessment of the expected or predicted effectiveness of the mitigation measures, including the scale and intensity of impacts of the proposed action and the on-ground benefits to be gained through each of these measures</td>
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<td>- a description of the outcomes that the avoidance and mitigation measures will achieve</td>
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<td>- any statutory or policy basis for the mitigation measures</td>
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<td>- the cost of the mitigation measures.</td>
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<td>b) A detailed outline of a plan for the continuing management, mitigation and monitoring of relevant MNES impacts of the action, including a description of the outcomes that will be achieved and any provisions for independent environmental auditing.</td>
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<td>c) Where appropriate, each project phase (construction, operation, decommission) must be addressed separately. It must state the environmental outcomes, performance criteria, monitoring, reporting, corrective action, contingencies, responsibility and timing for each environmental issue.</td>
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<td>The name of the agency responsible for endorsing or approving each mitigation measure or monitoring program.</td>
<td>Chapter 26, section 26.10, section 26.12, section 26.13</td>
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<td>ToR Section</td>
<td>ToR Requirement</td>
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</table>
| 4.2         | The Assessment Documentation must include any feasible alternatives to the action to the extent reasonably practicable, including:  
|             | a) if relevant, the alternative of taking no action  
|             | b) a comparative description of the impacts of each alternative on the triggered MNES protected by controlling provisions of Part 3 of the EPBC Act for the action  
|             | c) sufficient detail to make clear why any alternative is preferred to another.  
|             | Short, medium and long-term advantages and disadvantages of the options must be discussed.                                                                                                                   | Chapter 26, section 26.1, section 26.8, section 26.9                                             |
| 5           | Residual impacts/offsets                                                                                                                                                                                       |                                                                                                   |
| 5.1         | Residual Impacts - The Assessment Documentation must provide details of:  
|             | a) the residual significant impacts on MNES that are likely to occur after the proposed activities to avoid and mitigate all impacts are taken into account:  
|             | ▪ include the reasons why avoidance or mitigation of impacts is not reasonably achieved  
|             | ▪ identify the residual significant impacts on MNES.                                                                                               | Chapter 26, section 26.12, section 26.13                                                         |
| 5.2         | Offset package (if relevant) - The Assessment Documentation must include details of an offset package proposed to be implemented to compensate for the residual significant impact of the project, as well as an analysis about how the offset meets the requirements in the Department’s EPBC Act Environmental Offsets Policy October 2012 (EPBC Act Offset Policy).  
|             | The offset package can comprise a combination of direct offsets and other compensatory measures, so long as it meets the requirements of the EPBC Act Offset Policy. Offsets should align with conservation priorities for the impacted protected matter and be tailored specifically to the attribute of the protected matter that is impacted in order to deliver a conservation gain.  
<p>|             | Offsets should compensate for an impact for the full duration of the impact.                                                                        | Chapter 26, section 26.13                                                                          |</p>
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<td>Offsets must directly contribute to the ongoing viability of the MNES impacted by the project and deliver an overall conservation outcome that improves or maintains the viability of the MNES as compared to what is likely to have occurred under the status quo, that is if neither the action nor the offset had taken place.</td>
<td>Chapter 26, section 26.13</td>
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<td>Note offsets do not make an unacceptable impact acceptable and do not reduce the likely impacts of a proposed action. Instead, offsets compensate for any residual significant impact.</td>
<td>Chapter 26, section 26.13</td>
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<td>Offsets required by the State/Territory can be applied if the offsets meet the Department’s EPBC Act Offset Policy.</td>
<td>Chapter 26, section 26.13</td>
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<tr>
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<td>The Assessment Documentation must provide:</td>
<td>Chapter 26, section 26.13</td>
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<tr>
<td></td>
<td>a) details of the offset package to compensate for residual significant impacts on MNES</td>
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<td>b) an analysis of how the offset package meets the requirements of the EPBC Act Offsets Policy, including a discussion on the feasibility and the working outlined in the Offsets Assessment Guide.</td>
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<tr>
<td>6</td>
<td>Environmental record of person(s) proposing to take the action</td>
<td>Chapter 26, section 26.1</td>
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<tr>
<td></td>
<td>The information provided must include details of any proceedings under a Commonwealth, State or Territory law for the protection of the environment or the conservation and sustainable use of natural resources against:</td>
<td>Chapter 26, section 26.1</td>
</tr>
<tr>
<td></td>
<td>a) the person proposing to take the action</td>
<td>Appendix 11</td>
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<td>b) for an action for which a person has applied for a permit, the person making the application.</td>
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<td>If the person proposing to take the action is a corporation, details of the corporation’s environmental policy and planning framework must also be included.</td>
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<td>7</td>
<td>Economic and social matters</td>
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<td>ToR Section</td>
<td>ToR Requirement</td>
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<td>The economic and social impacts of the action, both positive and negative, must be analysed. Matters of interest may include:</td>
<td>Chapter 26, section 26.15, section 26.16</td>
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<tr>
<td></td>
<td>a) details of any public consultation activities undertaken, and their outcomes</td>
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<td>b) details of any consultation with Indigenous stakeholders</td>
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<td>c) projected economic costs and benefits of the project, including the basis for their estimation through cost/benefit analysis or similar studies</td>
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<td>d) employment opportunities expected to be generated by the project (including construction and operational phases).</td>
<td></td>
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<td></td>
<td>Economic and social impacts should be considered at the local and regional levels. Details of the relevant cost and benefits of alternative options to the proposed action, as identified in Section 4 above, should also be included.</td>
<td>Chapter 26, section 26.15, section 26.16</td>
</tr>
<tr>
<td></td>
<td>Identification of affected parties is required, including a statement mentioning any communities that may be affected and describing their views.</td>
<td>Chapter 26, section 26.15, section 26.16</td>
</tr>
<tr>
<td>8</td>
<td><strong>Information sources provided in the assessment documentation</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>For information given in the Assessment Documentation, state:</td>
<td>Chapter 26, all sections</td>
</tr>
<tr>
<td></td>
<td>a) the source of the information</td>
<td></td>
</tr>
<tr>
<td></td>
<td>b) how recent the information is</td>
<td></td>
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<tr>
<td></td>
<td>c) how the reliability of the information was tested</td>
<td></td>
</tr>
<tr>
<td></td>
<td>d) what uncertainties (if any) are in the information what guidelines, plans and/or policies did you consider.</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td><strong>Conclusion</strong></td>
<td></td>
</tr>
</tbody>
</table>
### ToR Section

<table>
<thead>
<tr>
<th>ToR Requirement</th>
<th>EIS Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>An overall conclusion as to the acceptability of impacts of the proposal on each MNES, including:</td>
<td>Chapter 26, Section 26.12, section 26.13, section 26.17</td>
</tr>
<tr>
<td>a) a discussion on the consideration with the requirements of the EPBC Act, including the objects of the EPBC Act, the principles of ecologically sustainable development and the precautionary principle.</td>
<td></td>
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<tr>
<td>b) reasons justifying undertaking the proposal in the manner proposed, including the acceptability of the avoidance and mitigation measures; and</td>
<td></td>
</tr>
<tr>
<td>c) if relevant, a discussion of residual significant impacts and any offsets and compensatory measures proposed or required for residual significant impacts on MNES, and the relative degree of compensation and acceptability.</td>
<td></td>
</tr>
</tbody>
</table>