

Section 19

Tailored EIS Guidelines Compliance Tracking Table





19 Tailored EIS Guidelines Compliance Tracking Table

EIS Guideline Requirement	EIS Section
4.1 Executive Summary	
An executive summary that outlines the key findings of the EIS must be provided in the EIS and made available as a standalone document for public information. The executive summary must briefly:	Executive Summary - Section 1
a) State the background and the need for the proposal;	Executive Summary - Project Background
b) Summarise alternatives and the reasons for selecting the preferred option;	Executive Summary - Alternatives
c) State the proposed schedule for each key component of the proposal, the expected duration of each stage and the proposal as a whole;	Executive Summary - Project Schedule
d) Provide a summary overview of the existing regional and local environments, including the physical, biological, social, cultural and economic environment relating to the proposal and associated activities;	Executive Summary - Overview of Existing Environment
e) Summarise stakeholder consultation undertaken in preparing the EIS;	Executive Summary - Stakeholder Consultation
f) Summarise the relevant impacts of the proposal on matters of NES and the social, cultural and economic environment;	Executive Summary - Relevant Impacts on Matters of NES
g) Summarise the key measures to avoid relevant impacts, mitigate unavoidable relevant impacts, offset significant residual impacts and monitor the effects for the proposals on matters of NES; and	Executive Summary - Relevant Impacts on Matters of NES
h) Provide the environmental record of the proponent.	Executive Summary - Environmental Record
4.2 Objective	
The objectives of the EIS must be clearly stated and include specific reference to EPBC Act legislative requirements.	

EIS Guideline Requirement	EIS Section
4.3 General Information	
a) the title of the action;	General Information and Background - Section 2.1
b) the full name and postal address of the designated proponent;	General Information and Background - Section 2.2
c) a clear outline of the objective of the action;	General Information and Background - Section 2.3
d) the location of the action, including shipping routes;	General Information and Background - Section 2.4 and: <ul style="list-style-type: none"> Figure 2-3 Shipping Routes and MNES Figure 2-4 Infrastructure and Conceptual Mine Plan (up to 40 years) Figure 2-5 Infrastructure and Conceptual Mine Plan (Aerial Photo) Details of the location of the Project and shipping routes are also provided in Description of the Proposed Project - Section 3.2
e) the background to the development of the action;	General Information and Background - Section 2.3
f) 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 or proposed in the region affected by the action;	General Information and Background - Section 2.5
g) the current status of the action;	General Information and Background - Section 2.1
h) the consequences of not proceeding with the action or components of the action and/or the consequences of other projects (that this action relies upon) not proceeding;	General Information and Background - Section 2.6
i) legislative background for the proposal, including the NES matters protected under Part 3 of the EPBC Act, and any other requirements and approvals needed under the EPBC Act, including s.160 of the Act;	General Information and Background - Section 2.7.1
j) legislative background for the proposal under the <i>Environment Protection (Sea Dumping) Act 1981</i> ;	General Information and Background - Section 2.7.1
k) key EPBC Act matters affected by the proposal; and	General Information and Background - Section 2.1

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<p>l) a map(s) at an appropriate scale showing location of the actions, land tenure, the Commonwealth marine area and the Great Barrier Reef Marine Park in relation to the action.</p>	<ul style="list-style-type: none"> • Figure 2-1 Locality Map • Figure 2-3 Shipping Routes and MNES • Figure 2-4 Infrastructure and Conceptual Mine Plan (up to 40 years) • Figure 2-5 Infrastructure and Conceptual Mine Plan (Aerial Photo) • Figure 2-6 Land Tenure and Local Government Boundaries • Figure 3-1 Indigenous Land Use Agreement Area • Figure 3-2 Boyd Infrastructure Area • Figure 3-3 Norman Creek Infrastructure Area • Figure 3-4 Humbug Barge Terminal • Figure 3-5 Hornibrook Ferry Terminal and Tug Berth • Figure 3-6 Hey River Ferry/Barge Terminal • Figure 3-7 Temporary Seaborne Access (Conceptual Plan) • Figure 3-8 Port, Spoil Ground and Mooring Locations • Figure 3-9 Port Layout • Figure 3-10 International and Domestic Shipping Routes • Figure 4-1 Regional Ecosystems • Figure 4-7 Seagrass in Embley and Hey River Estuaries • Figure 4-10 Risks to Great Barrier Reef Ecosystem
<p>4.4 Description of the action</p>	
<p>The Draft EIS must contain enough information about the action and its relevant impacts to allow the Environment Minister to make an informed decision whether or not to approve under Part 9 of the EPBC Act (for the purposes of each controlling provision) the taking of the action.</p>	
<p>a) Provide a description of the action, including:</p>	
<p>i. all the components of the action, including shipping activities;</p>	<p>Description of the Proposed Action - Section 3</p>
<p>ii. the precise location of any works to be undertaken, structures to be built or elements of the action that may have relevant impacts, including illustrations or maps;</p>	<p>Description of the Proposed Action:</p> <ul style="list-style-type: none"> • Sections 3.2, 3.3, 3.4, 3.5, 3.6, 3.7, 3.8 and 3.9 • Figures:

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iii. how the works are to be undertaken and design parameters for those aspects of the structures or elements of the action that may have relevant impacts;	As above
iv. any other requirements for approval or conditions that apply, or that the proponent reasonably believes are likely to apply, to the proposed action; and	General Information and Background - Section 2.7
v. to the extent reasonably practicable, any feasible alternatives to the action, including:	Description of the Proposed Action - Section 3.12
i. if relevant, the alternative of taking no action;	Description of the Proposed Action - Section 3.12
ii. a comparative description of the impacts of each alternative on the matters protected by the controlling provisions for the action, including alternatives to ocean disposal of dredged material;	Description of the Proposed Action - Section 3.12
iii. sufficient detail to make clear why any alternative is preferred to another; and,	Description of the Proposed Action - Section 3.12
iv. decommissioning and environmental rehabilitation of the impact areas including rehabilitation objectives.	Description of the Proposed Action - Sections 3.10 and 3.11

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b) any consultation about the action, including:	Description of the Proposed Action - Section 3.14
i. any consultation that has already taken place;	Description of the Proposed Action - Section 3.14
ii. proposed consultation about relevant impacts of the action;	Description of the Proposed Action - Section 3.14
iii. if there has been consultation about the proposed action including any documented response to, or result of, the consultation or references to publicly available reports which provide additional detail; and,	Description of the Proposed Action - Section 3.14 Appendix 2D Submissions Summary Table
iv. identification of potentially affected parties, including a discussion of any communities that may be affected and a description of their views.	Description of the Proposed Action - Section 3.14
In relation to proposed shipping activities as a result of the action, details of the following must be discussed:	Description of the Proposed Action - Section 3.9
a) describe vessel numbers prior to commencement of the action and type, their size and speed, as well as their routes, ports to be utilised, anchorages, access and navigational arrangements;	Description of the Proposed Action - Sections 3.9.1, 3.9.2 and 3.9.3 Shipping route is shown in: <ul style="list-style-type: none"> Figure 2-3 Shipping Routes and MNES Figure 3-10 International and Domestic Shipping Routes
b) describe projected total vessel movements at each stage of the project, (including barges if applicable) including both construction and operation. Include a comparison with total shipping movements through the Great Barrier Reef World Heritage Area, National Heritage place, and Great Barrier Reef Marine Park;	Description of the Proposed Action: <ul style="list-style-type: none"> Section 3.9 Figures: <ul style="list-style-type: none"> Figure 2-3 Shipping Routes and MNES Figure 3-10 International and Domestic Shipping Routes
c) potential alternative locations for shipping routes;	Description of the Proposed Action - Section 3.12.
d) typical shipping routes to be used by vessels beyond the port in Commonwealth marine waters. These must be indicated on a map in relationship to the Great Barrier Reef World Heritage area and National Heritage place, Great Barrier Reef Marine Park, new port development at South of Embley and to the main shipping channels and any other navigational arrangements; and	Description of the Proposed Action - Sections 3.9.1 and 3.9.3 Shipping route is shown in: <ul style="list-style-type: none"> Figure 2-3 Shipping Routes and MNES Figure 3-10 International and Domestic Shipping Routes

EIS Guideline Requirement	EIS Section
<p>e) the potential use of the Great Barrier Reef World Heritage Area, Commonwealth marine area and Great Barrier Reef Marine Park for the offshore anchorage of ships.</p>	<p>Description of the Proposed Action - Section 3.9.3</p> <p>Commonwealth Marine Area:</p> <ul style="list-style-type: none"> Section 10.4.2 and 10.4.5 <p>Great Barrier Reef Marine Park (and World Heritage Area) - Section 11.4.1.1</p> <p>Shipping route is shown in:</p> <ul style="list-style-type: none"> Figure 2-3 Shipping Routes and MNES Figure 3-10 International and Domestic Shipping Routes
<p>4.5 MNES Impact Assessment and Mitigation Measures</p>	
<p>This section addresses the assessment of relevant impacts on the matters of NES identified as controlling provisions for this project. This assessment is set out in two parts (Part A and Part B) which collectively provide the assessment in respect of the entirety of the project against all matters of NES.</p>	<p>Noted</p>
<p>Part A of the EIS Guidelines identifies the issues that the Environment Minister requires the proponent to address in the EIS for the actions related to the bauxite mine, port development and associated infrastructure, which are generally consistent with the <i>Draft Tailored EIS Guidelines for the Preparation of Draft EIS</i> previously provided for this project in December 2010. Part A of the EIS Guideline includes the assessment requirements specified in Section 102 of the EPBC Act and Schedule 4 of the EPBC Regulations.</p> <p>Part B sets out the assessment requirements the proponent must address in relation to the impacts of the project actions not already assessed in Part A. Specifically, those requirements comprise:</p> <ul style="list-style-type: none"> the impact assessment of the shipping activities on all six controlling provisions; and, the assessment of the impacts of the mine, port development and associated infrastructure on the three additional controlling provisions not addressed in Part A. <p>The assessment of impacts to individual matters of NES (whether from Part A or Part B of this section of the Guidelines) must be addressed in an integrated manner in the EIS. A table</p>	

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cross-referencing information required by the guidelines and the mandatory considerations of the EPBC Act must be provided identifying relevant text in the body of the EIS.	
PART A	
<p>The EPBC Act controlling provisions applicable for Part A are:</p> <ul style="list-style-type: none"> • Listed threatened species and communities (section 18 and 18A); • Listed migratory species (sections 20 and 20A); and, • Commonwealth marine areas (sections 23 and 24A). 	Noted
A1 Matters of National Environmental Significance (NES)	
<p>Identify EPBC Act listed threatened species and ecological communities, listed migratory species and components of the Commonwealth marine environment that are likely to or known to be impacted by the actions associated with the mine, port and associated infrastructure. For each of those species, communities or components of the marine environment the following information must be provided:</p>	<p>No threatened ecological communities are located in the Project area - Section 4.4</p> <p>Outline provided as follows. Detailed section numbers provided under subheadings:</p> <ul style="list-style-type: none"> • Terrestrial Flora - Section 5 • Terrestrial Fauna - Section 6 • Marine Fauna - Section 7 • Avian Migratory - Section 8 • Non-Avian Migratory - Section 9 • Commonwealth Marine Area - Section 10
<p>a) information on the distribution (including maps), ecology, seasonality and habitat preferences of the species or community;</p>	<p>The distribution, ecology, seasonality and habitat preferences of species and communities are described and/or mapped in:</p> <ul style="list-style-type: none"> • Terrestrial Flora <ul style="list-style-type: none"> • Sections 5.2.1, 5.3.1, 5.3.2, 5.4.1, 5.4.2, 5.5.1, 5.5.2, 5.6.1, 5.6.2, 5.7.1, 5.7.2, 5.8.1 and 5.8.2 • Figures <ul style="list-style-type: none"> ▪ Figure 5-1 Regional Records of Threatened Flora

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	<ul style="list-style-type: none"> ▪ Figure 5-3 Threatened Flora ▪ Figure 5-4 Potential Habitat of <i>Calophyllum bicolor</i> ▪ Figure 5-5 Potential Habitat of Cooktown Orchid ▪ Figure 5-6 Potential Habitat of Chocolate Tea Tree Orchid ▪ Figure 5-7 Potential Habitat of Ant Plant ▪ Figure 5-8 Potential Habitat of Beach Nightshade ▪ Figure 5-9 Potential Habitat of <i>Spathoglottis plicata</i> • Terrestrial Fauna <ul style="list-style-type: none"> • Sections 6.1.1, 6.3.1; 6.4.1; 6.5.1 and 6.6.1 • Figures <ul style="list-style-type: none"> ▪ Figure 6-1 Regional Records of Threatened Fauna Species ▪ Figure 6-3 Potential Habitat of Red Goshawk (Weipa Plateau Subregion) ▪ Figure 6-4 Potential Habitat of Red Goshawk (Project Area) ▪ Figure 6-5 Potential Habitat of Masked Owl (Weipa Plateau Subregion) ▪ Figure 6-6 Potential Habitat of Masked Owl (Project Area) ▪ Figure 6-7 Potential Habitat of Northern Quoll (Weipa Plateau Subregion) ▪ Figure 6-8 Potential Habitat of Northern Quoll (Project Area) • Avian Migratory Species <ul style="list-style-type: none"> • Section 8.2 • Figure 8-3 Migratory Seabird Important Habitats • Threatened Estuarine and Marine Fauna: <ul style="list-style-type: none"> • Sections 7.2, 7.3.1, 7.3.2, 7.3.3, 7.3.4, 7.4.1, 7.4.2, and 7.4.3 • Figures: <ul style="list-style-type: none"> ▪ Figure 4-3 Habitat Distribution and Classification

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	<ul style="list-style-type: none"> ▪ Figure 4-4 Seagrass Survey (Hornibrook Ferry Terminal and Tug Berths) ▪ Figure 4-5 Seagrass Survey (Humbug Barge Terminal) ▪ Figure 4-6 Seagrass Survey (Hey River Ferry / Barge Terminal) ▪ Figure 4-7 Seagrass in Embley and Hey River Estuaries ▪ Figure 7-1 Sub-tidal Video Survey Locations ▪ Figure 7-2 Reefal habitat between Pera Head and Boyd Point ▪ Figure 7-3 Seabed at the Proposed New Spoil Ground ▪ Figure 7-4 Nesting Locations for Hawksbill Turtles (top) and Green Turtles (bottom) ▪ Figure 7-5 Nesting Locations for Loggerhead Turtles (top) and Flatback Turtles (bottom) ▪ Figure 7-6 Nesting Locations for Olive Ridley Turtles (top) and Leatherback Turtles (bottom) ▪ Figure 7-7 Green Turtle Records (eastern Gulf of Carpentaria) ▪ Figure 7-8 Hawksbill Turtle Records (eastern Gulf of Carpentaria) ▪ Figure 7-9 Flatback Turtle Records (eastern Gulf of Carpentaria) ▪ Figure 7-10 Loggerhead Turtle Records (Eastern Gulf of Carpentaria) ▪ Figure 7-11 Olive Ridley Turtle Records (eastern Gulf of Carpentaria) ▪ Figure 7-12 Leatherback Turtles Records (eastern Gulf of Carpentaria) ▪ Figure 7-13 Location of Turtle Nesting Activity from May – July 2007 and April 2008 ▪ Figure 7-14 Potential Habitat of Green Turtle (Project Area) ▪ Figure 7-15 Potential Habitat of Hawksbill Turtle (Project Area)

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	<ul style="list-style-type: none"> ▪ Figure 7-16 Potential Habitat of Flatback Turtle (Project Area) ▪ Figure 7-17 Potential Habitat of Loggerhead Turtle (Project Area) ▪ Figure 7-18 Potential Habitat of Olive Ridley Turtle (Project Area) ▪ Figure 7-19 Potential Habitat of Leatherback Turtle (Project Area) ▪ Figure 7-24 Freshwater Sawfish Records (eastern Gulf of Carpentaria) ▪ Figure 7-25 Dwarf Sawfish Records (eastern Gulf of Carpentaria) ▪ Figure 7-26 Green Sawfish Records (eastern Gulf of Carpentaria) ▪ Figure 7-27 Speartooth Shark Records (eastern Gulf of Carpentaria) ▪ Figure 7-29 Potential Habitat of Freshwater Sawfish (Project Area) ▪ Figure 7-30 Potential Habitat of Dwarf Sawfish (Project Area) ▪ Figure 7-31 Potential Habitat of Green Sawfish (Project Area) ▪ Figure 7-32 Potential Habitat of Speartooth Shark (Project Area) • Non-Avian Migratory Species: <ul style="list-style-type: none"> • Sections 9.3.1, 9.3.2, 9.3.3, 9.4.1, 9.4.2, 9.4.3, 9.5.1, 9.5.2 and 9.5.3 • Figures: <ul style="list-style-type: none"> ▪ Figure 9-1 Estuarine Crocodile Records ▪ Figure 9-2 Estuarine Crocodile Habitat and Migratory Pathways ▪ Figure 9-3 Dugong Records (eastern Gulf of Carpentaria)

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	<ul style="list-style-type: none"> ▪ Figure 9-4 Notional Dugong Migration Pathway ▪ Figure 9-5 Potential Habitat of Dugong (Project Area) ▪ Figure 9-6 Cetacean Records (eastern Gulf of Carpentaria) ▪ Figure 9-8 Potential Habitat of Australian Snubfin Dolphin (Project Area) ▪ Figure 9-9 Potential Habitat of Indo-Pacific Humpback Dolphin (Project Area)
b) a detailed discussion of known threats;	<p>Known threats are described in:</p> <ul style="list-style-type: none"> • Terrestrial Flora <ul style="list-style-type: none"> • Sections 5.3.1, 5.4.1, 5.5.1, 5.6.1, 5.7.1, and 5.8.1 • Terrestrial Fauna <ul style="list-style-type: none"> • Sections 6.3.1.4, 6.4.1.4, 6.5.1 and 6.6.1 • Avian Migratory Species - Section 8.2 • Threatened Estuarine and Marine Fauna <ul style="list-style-type: none"> • Sections 7.3.1, 7.3.2 and 7.4.1 • Non-Avian Migratory Species <ul style="list-style-type: none"> • Sections 9.3.1.4, 9.4.1.4 and 9.5.1 • Commonwealth Marine Area - Section 10.2.2
c) information on the conservation value of each habitat type on the site from a local and regional perspective, including the percentage representation of each habitat type on site in relation to its local and regional extent;	<p>The distribution, ecology, seasonality and habitat preferences of species and communities are described and/or mapped in:</p> <ul style="list-style-type: none"> • Terrestrial Flora <ul style="list-style-type: none"> • Sections 5.2.1, 5.3.1, 5.3.2, 5.4.1, 5.4.2, 5.5.1, 5.5.2, 5.6.1, 5.6.2, 5.7.1, 5.7.2, 5.8.1 and 5.8.2 • Figures:

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	<p>Tug Berths)</p> <ul style="list-style-type: none"> ▪ Figure 4-5 Seagrass Survey (Humbag Barge Terminal) ▪ Figure 4-6 Seagrass Survey (Hey River Ferry / Barge Terminal) ▪ Figure 4-7 Seagrass in Embley and Hey River Estuaries ▪ Figure 7-1 Sub-tidal Video Survey Locations ▪ Figure 7-2 Reefal habitat between Pera Head and Boyd Point ▪ Figure 7-3 Seabed at the Proposed New Spoil Ground ▪ Figure 7-4 Nesting Locations for Hawksbill Turtles (top) and Green Turtles (bottom) ▪ Figure 7-5 Nesting Locations for Loggerhead Turtles (top) and Flatback Turtles (bottom) ▪ Figure 7-6 Nesting Locations for Olive Ridley Turtles (top) and Leatherback Turtles (bottom) ▪ Figure 7-7 Green Turtle Records (eastern Gulf of Carpentaria) ▪ Figure 7-8 Hawksbill Turtle Records (eastern Gulf of Carpentaria) ▪ Figure 7-9 Flatback Turtle Records (eastern Gulf of Carpentaria) ▪ Figure 7-10 Loggerhead Turtle Records (eastern Gulf of Carpentaria) ▪ Figure 7-11 Olive Ridley Turtle Records (eastern Gulf of Carpentaria) ▪ Figure 7-12 Leatherback Turtles Records (eastern Gulf of Carpentaria) ▪ Figure 7-13 Location of Turtle Nesting Activity from May – July 2007 and April 2008 ▪ Figure 7-14 Potential Habitat of Green Turtle (Project Area) ▪ Figure 7-15 Potential Habitat of Hawksbill Turtle (Project Area) ▪ Figure 7-16 Potential Habitat of Flatback Turtle (Project Area)

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<p>d) if a population is present in the areas likely to be impacted, its size and the importance of that population from a local and regional perspective;</p>	<p>The distribution, ecology, seasonality and habitat preferences of species and communities are described and/or mapped in:</p> <ul style="list-style-type: none"> • Terrestrial Flora <ul style="list-style-type: none"> • Sections 5.2.1, 5.3.1, 5.3.2, 5.4.1, 5.4.2, 5.5.1, 5.5.2, 5.6.1, 5.6.2, 5.7.1, 5.7.2, 5.8.1 and 5.8.2 • Figures: <ul style="list-style-type: none"> ▪ Figure 5-1 Regional Records of Threatened Flora ▪ Figure 5-2 Flora Survey Sites ▪ Figure 5-4 Potential Habitat of <i>Calophyllum bicolor</i> ▪ Figure 5-5 Potential Habitat of Cooktown Orchid ▪ Figure 5-6 Potential Habitat of Chocolate Tea Tree Orchid ▪ Figure 5-7 Potential Habitat of Ant Plant ▪ Figure 5-8 Potential Habitat of Beach Nightshade ▪ Figure 5-9 Potential Habitat of <i>Spathoglottis plicata</i> • Terrestrial Fauna <ul style="list-style-type: none"> • Sections 6.1.1, 6.3.1; 6.4.1; 6.5.1 and 6.6.1 • Figures: <ul style="list-style-type: none"> ▪ Figure 6-1 Regional Records of Threatened Fauna Species ▪ Figure 6-3 Potential Habitat of Red Goshawk (Weipa Plateau Subregion) ▪ Figure 6-4 Potential Habitat of Red Goshawk (Project Area)

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	<ul style="list-style-type: none"> ▪ Figure 7-9 Flatback Turtle Records (eastern Gulf of Carpentaria) ▪ Figure 7-10 Loggerhead Turtle Records (Eastern Gulf of Carpentaria) ▪ Figure 7-11 Olive Ridley Turtle Records (eastern Gulf of Carpentaria) ▪ Figure 7-12 Leatherback Turtles Records (eastern Gulf of Carpentaria) ▪ Figure 7-13 Location of Turtle Nesting Activity from May – July 2007 and April 2008 ▪ Figure 7-14 Potential Habitat of Green Turtle (Project Area) ▪ Figure 7-15 Potential Habitat of Hawksbill Turtle (Project Area) ▪ Figure 7-16 Potential Habitat of Flatback Turtle (Project Area) ▪ Figure 7-17 Potential Habitat of Loggerhead Turtle (Project Area) ▪ Figure 7-18 Potential Habitat of Olive Ridley Turtle (Project Area) ▪ Figure 7-19 Potential Habitat of Leatherback Turtle (Project Area) ▪ Figure 7-24 Freshwater Sawfish Records (eastern Gulf of Carpentaria) ▪ Figure 7-25 Dwarf Sawfish Records (eastern Gulf of Carpentaria) ▪ Figure 7-26 Green Sawfish Records (eastern Gulf of Carpentaria) ▪ Figure 7-27 Speartooth Shark Records (eastern Gulf of Carpentaria) ▪ Figure 7-29 Potential Habitat of Freshwater Sawfish (Project Area) ▪ Figure 7-30 Potential Habitat of Dwarf Sawfish (Project Area)

EIS Guideline Requirement	EIS Section
	<ul style="list-style-type: none"> ▪ Figure 7-31 Potential Habitat of Green Sawfish (Project Area) ▪ Figure 7-32 Potential Habitat of Speartooth Shark (Project Area) • Non-Avian Migratory Species: <ul style="list-style-type: none"> • Sections 9.3.1, 9.3.2, 9.3.3, 9.4.1, 9.4.2, 9.4.3, 9.5.1, 9.5.2 and 9.5.3 • Figures: <ul style="list-style-type: none"> ▪ Figure 9-1 Estuarine Crocodile Records ▪ Figure 9-2 Estuarine Crocodile Habitat and Migratory Pathways ▪ Figure 9-3 Dugong Records (eastern Gulf of Carpentaria) ▪ Figure 9-4 Notional Dugong Migration Pathway ▪ Figure 9-5 Potential Habitat of Dugong (Project Area) ▪ Figure 9-6 Cetacean Records (eastern Gulf of Carpentaria) ▪ Figure 9-8 Potential Habitat of Australian Snubfin Dolphin (Project Area) ▪ Figure 9-9 Potential Habitat of Indo-Pacific Humpback Dolphin (Project Area)
<p>e) maps showing the location of known records from the areas likely to be impacted (including those from databases and all surveys previously conducted for the proposal);</p>	<p>The distribution, ecology, seasonality and habitat preferences of species and communities are described and/or mapped in:</p> <ul style="list-style-type: none"> • Terrestrial Flora: <ul style="list-style-type: none"> • Figure 5-1 Regional Records of Threatened Flora • Figure 5-3 Threatened Flora • Terrestrial Fauna: <ul style="list-style-type: none"> • Figure 6-1 Regional Records of Threatened Fauna Species • Threatened Estuarine and Marine Fauna: <ul style="list-style-type: none"> • Figure 7-4 Nesting Locations for Hawksbill Turtles (top) and

EIS Guideline Requirement	EIS Section
	<p>Green Turtles (bottom)</p> <ul style="list-style-type: none"> • Figure 7-5 Nesting Locations for Loggerhead Turtles (top) and Flatback Turtles (bottom) • Figure 7-6 Nesting Locations for Olive Ridley Turtles (top) and Leatherback Turtles (bottom) • Figure 7-7 Green Turtle Records (eastern Gulf of Carpentaria) • Figure 7-8 Hawksbill Turtle Records (eastern Gulf of Carpentaria) • Figure 7-9 Flatback Turtle Records (eastern Gulf of Carpentaria) • Figure 7-10 Loggerhead Turtle Records (eastern Gulf of Carpentaria) • Figure 7-11 Olive Ridley Turtle Records (eastern Gulf of Carpentaria) • Figure 7-12 Leatherback Turtles Records (eastern Gulf of Carpentaria) • Figure 7-13 Location of Turtle Nesting Activity from May – July 2007 and April 2008 • Figure 7-24 Freshwater Sawfish Records (eastern Gulf of Carpentaria) • Figure 7-25 Dwarf Sawfish Records (eastern Gulf of Carpentaria) • Figure 7-26 Green Sawfish Records (eastern Gulf of Carpentaria) • Figure 7-27 Speartooth Shark Records (eastern Gulf of Carpentaria) • Non-Avian Migratory Species: <ul style="list-style-type: none"> • Figure 9-1 Estuarine Crocodile Records • Figure 9-3 Dugong Records (eastern Gulf of Carpentaria) • Figure 9-6 Cetacean Records (eastern Gulf of Carpentaria)
f) maps showing the potential habitat (including critical habitat, where relevant) within the areas likely to be impacted for each of those species identified. Maps must be provided that highlight habitat components important for each of those species, such as breeding	The distribution, ecology, seasonality and habitat preferences of species and communities are described and/or mapped in:

EIS Guideline Requirement	EIS Section
<p>habitat, wetlands, vine forests, rock outcrops, etc;</p>	<ul style="list-style-type: none"> • Terrestrial Flora <ul style="list-style-type: none"> • Figure 5-1 Regional Records of Threatened Flora • Figure 5-4 Potential Habitat of <i>Calophyllum bicolor</i> • Figure 5-5 Potential Habitat of Cooktown Orchid • Figure 5-6 Potential Habitat of Chocolate Tea Tree Orchid • Figure 5-7 Potential Habitat of Ant Plant • Figure 5-8 Potential Habitat of Beach Nightshade • Figure 5-9 Potential Habitat of <i>Spathoglottis plicata</i> • Terrestrial Fauna <ul style="list-style-type: none"> • Figure 6-1 Regional Records of Threatened Fauna Species • Figure 6-4 Potential Habitat of Red Goshawk (Project Area) • Figure 6-6 Potential Habitat of Masked Owl (Project Area) • Figure 6-8 Potential Habitat of Northern Quoll (Project Area) • Threatened Estuarine and Marine Fauna: <ul style="list-style-type: none"> • Figure 4-4 Seagrass Survey (Hornibrook Ferry Terminal and Tug Berths) • Figure 4-5 Seagrass Survey (Humbug Barge Terminal) • Figure 4-6 Seagrass Survey (Hey River Ferry / Barge Terminal) • Figure 4-7 Seagrass in Embley and Hey River Estuaries • Figure 7-2 Reefal habitat between Pera Head and Boyd Point • Figure 7-3 Seabed at the Proposed New Spoil Ground • Figure 7-4 Nesting Locations for Hawksbill Turtles (top) and Green Turtles (bottom) • Figure 7-5 Nesting Locations for Loggerhead Turtles (top) and Flatback Turtles (bottom) • Figure 7-6 Nesting Locations for Olive Ridley Turtles (top) and Leatherback Turtles (bottom)

EIS Guideline Requirement	EIS Section
	<ul style="list-style-type: none"> • Figure 7-7 Green Turtle Records (eastern Gulf of Carpentaria) • Figure 7-8 Hawksbill Turtle Records (eastern Gulf of Carpentaria) • Figure 7-9 Flatback Turtle Records (eastern Gulf of Carpentaria) • Figure 7-10 Loggerhead Turtle Records (eastern Gulf of Carpentaria) • Figure 7-11 Olive Ridley Turtle Records (eastern Gulf of Carpentaria) • Figure 7-12 Leatherback Turtles Records (eastern Gulf of Carpentaria) • Figure 7-13 Location of Turtle Nesting Activity from May – July 2007 and April 2008 • Figure 7-14 Potential Habitat of Green Turtle (Project Area) • Figure 7-15 Potential Habitat of Hawksbill Turtle (Project Area) • Figure 7-16 Potential Habitat of Flatback Turtle (Project Area) • Figure 7-17 Potential Habitat of Loggerhead Turtle (Project Area) • Figure 7-18 Potential Habitat of Olive Ridley Turtle (Project Area) • Figure 7-19 Potential Habitat of Leatherback Turtle (Project Area) • Figure 7-24 Freshwater Sawfish Records (eastern Gulf of Carpentaria) • Figure 7-25 Dwarf Sawfish Records (eastern Gulf of Carpentaria) • Figure 7-26 Green Sawfish Records (eastern Gulf of Carpentaria) • Figure 7-27 Speartooth Shark Records (eastern Gulf of Carpentaria) • Figure 7-29 Potential Habitat of Freshwater Sawfish (Project Area) • Figure 7-30 Potential Habitat of Dwarf Sawfish (Project Area) • Figure 7-31 Potential Habitat of Green Sawfish (Project Area) • Figure 7-32 Potential Habitat of Speartooth Shark (Project Area) • Non-Avian Migratory Species: <ul style="list-style-type: none"> • Figure 9-1 Estuarine Crocodile Records

EIS Guideline Requirement	EIS Section
	<ul style="list-style-type: none"> • Figure 9-2 Estuarine Crocodile Habitat and Migratory Pathways • Figure 9-3 Dugong Records (eastern Gulf of Carpentaria) • Figure 9-4 Notional Dugong Migration Pathway • Figure 9-5 Potential Habitat of Dugong (Project Area) • Figure 9-6 Cetacean Records (eastern Gulf of Carpentaria) • Figure 9-8 Potential Habitat of Australian Snubfin Dolphin (Project Area) • Figure 9-9 Potential Habitat of Indo-Pacific Humpback Dolphin (Project Area)
g) maps showing the potential habitat within the region;	<p>The distribution, ecology, seasonality and habitat preferences of species and communities are described and/or mapped in:</p> <ul style="list-style-type: none"> • Terrestrial Flora: <ul style="list-style-type: none"> • Figure 4.1 Regional Ecosystems • Figure 5-1 Regional Records of Threatened Flora • Terrestrial Fauna: <ul style="list-style-type: none"> • Figure 6-1 Regional Records of Threatened Fauna Species • Figure 6-3 Potential Habitat of Red Goshawk (Weipa Plateau Subregion) • Figure 6-5 Potential Habitat of Masked Owl (Weipa Plateau Subregion) • Figure 6-7 Potential Habitat of Northern Quoll (Weipa Plateau Subregion) • Threatened Estuarine and Marine Fauna: <ul style="list-style-type: none"> • Figure 4-3 Habitat Distribution and Classification • Figure 7-4 Nesting Locations for Hawksbill Turtles (top) and Green Turtles (bottom) • Figure 7-5 Nesting Locations for Loggerhead Turtles (top) and

EIS Guideline Requirement	EIS Section
	<p>Flatback Turtles (bottom)</p> <ul style="list-style-type: none"> • Figure 7-6 Nesting Locations for Olive Ridley Turtles (top) and Leatherback Turtles (bottom) • Figure 7-7 Green Turtle Records (eastern Gulf of Carpentaria) • Figure 7-8 Hawksbill Turtle Records (eastern Gulf of Carpentaria) • Figure 7-9 Flatback Turtle Records (eastern Gulf of Carpentaria) • Figure 7-10 Loggerhead Turtle Records (eastern Gulf of Carpentaria) • Figure 7-11 Olive Ridley Turtle Records (eastern Gulf of Carpentaria) • Figure 7-12 Records of Leatherback Turtles (eastern Gulf of Carpentaria) • Figure 7-24 Freshwater Sawfish Records (eastern Gulf of Carpentaria) • Figure 7-25 Dwarf Sawfish Records (eastern Gulf of Carpentaria) • Figure 7-26 Green Sawfish Records (eastern Gulf of Carpentaria) • Figure 7-26 Speartooth Shark Records (eastern Gulf of Carpentaria) • Non-Avian Migratory Species: <ul style="list-style-type: none"> • Figure 9-1 Estuarine Crocodile Records • Figure 9-2 Estuarine Crocodile Habitat and Migratory Pathways • Figure 9-3 Dugong Records (eastern Gulf of Carpentaria) • Figure 9-4 Notional Dugong Migration Pathway • Figure 9-6 Cetacean Records (eastern Gulf of Carpentaria)
h) maps detailing regional migration pathways;	<p>Regional migration pathways are mapped in:</p> <ul style="list-style-type: none"> • Avian Migratory Species <ul style="list-style-type: none"> • Figure 8-1 Notional Migratory Pathways for Shorebirds • Figure 8-2 Notional Migratory Pathways for Seabirds

EIS Guideline Requirement	EIS Section
	<ul style="list-style-type: none"> • Figure 8-4 Notional Migratory Pathways for the Rainbow Bee-eater • Figure 8-5 Notional Migratory Pathways for the Oriental Cuckoo • Figure 8-6 Notional Migratory Pathways for Rufous Fantail and Satin Flycatcher • Figure 8-7 Notional Migratory Pathways for the Black-faced Monarch • Figure 8-8 Notional Migratory Pathways for Barn Swallow • Figure 8-9 Notional Migratory Pathways for Aerial Species • Non-Avian Migratory Species <ul style="list-style-type: none"> • Figure 9-2 Estuarine Crocodile Habitat and Migratory Pathways • Figure 9-4 Notional Dugong Migration Pathway <p>Details on other species provided in text if that information was available through secondary sources.</p>
<p>i) information on the survey methodology used, including any limitations of the methodology and data collected for each of those species, communities or components of the marine environment, as well as a justification for the survey methodology and survey sites employed;</p>	<p>Survey methodology is discussed in:</p> <ul style="list-style-type: none"> • Terrestrial Flora <ul style="list-style-type: none"> • Sections 5.2, 5.3.2, 5.4.2, 5.5.2, 5.6.2, 5.7.2 and 5.8.2 • Terrestrial Fauna <ul style="list-style-type: none"> • Sections 6.2, 6.3.2, 6.4.2, 6.5.2 and 6.6.2 • Avian Migratory Species - Section 8.1.3 • Threatened Estuarine and Marine Fauna (and Commonwealth Marine Area) <ul style="list-style-type: none"> • Sections 7.3.3 and 7.4.3 • Non-Avian Migratory Species

EIS Guideline Requirement	EIS Section
	<ul style="list-style-type: none"> Sections 9.3.2, 9.4.2 and 9.5.2
j) survey methodology must follow all relevant state and Commonwealth survey guidelines current at the time of survey (e.g. the Survey Guidelines for Australia's Threatened Birds (DSEWPaC)) and demonstrate how this has been achieved;	As above
k) information on the scientific reliability of survey investigations and conclusions, including any and all unknown variables (if any) of available information that may influence the conclusions of the environmental assessment. This must include any assumptions or limitations of any models used to make predictions; and,	As above
l) for all listed threatened species, marine species or listed migratory species that are believed not likely to be impacted by the action, but for which suitable habitat is present and could be impacted by the action, sufficiently detailed information must be included to demonstrate that a likely impact on the species will not occur.	<p>Likely impacts are discussed in:</p> <ul style="list-style-type: none"> Terrestrial Flora <ul style="list-style-type: none"> Sections 5.3.3, 5.3.4, 5.4.3, 5.4.4, 5.5.3, 5.5.4, 5.6.3, 5.6.4, 5.7.3, 5.7.4, 5.8.3 and 5.8.4 Terrestrial Fauna <ul style="list-style-type: none"> Sections 6.3.3, 6.3.4, 6.4.3, 6.4.4, 6.5.3, 6.5.4, 6.6.3 and 6.6.4 Avian Migratory Species <ul style="list-style-type: none"> Section 8.4 and 8.5 Threatened Estuarine and Marine Fauna <ul style="list-style-type: none"> Sections 7.3.5, 7.3.6, 7.4.5 and 7.4.6 Non-Avian Migratory Species <ul style="list-style-type: none"> Sections 9.3.4, 9.3.5, 9.4.4, 9.4.5 and 9.6.4, 9.5.5 Commonwealth Marine Area - Section 10.4.3
A2 Relevant Impacts	
In relation to the each of those species, communities, or components of the marine	Outline provided as follows. Detailed section numbers provided under

EIS Guideline Requirement	EIS Section
<p>environment described in A1, provide a description of the relevant impacts (as defined by section 82 of the EPBC Act) of the mine, port development and associated infrastructure, including:</p>	<p>subheadings.</p> <ul style="list-style-type: none"> • Terrestrial Flora - Section 5 • Terrestrial Fauna – Section 6 • Marine Fauna – Section 7 • Avian Migratory – Section 8 • Non-Avian Migratory – Section 9 • Commonwealth Marine Area – Section 10 <p>There are no relevant impacts on GBRMP, WHP or NHP from the mine, port development or associated infrastructure.</p>
<p>a) a detailed assessment of the nature and extent of the likely long-term and short-term relevant impacts (direct, indirect, cumulative and consequential impacts), must include;</p>	<p>The nature and extent of the likely long-term and short-term relevant impacts are discussed in:</p> <ul style="list-style-type: none"> • Terrestrial Flora <ul style="list-style-type: none"> • Sections 5.3.3, 5.3.4, 5.4.3, 5.4.4, 5.5.3, 5.5.4, 5.6.3, 5.6.4, 5.7.3, 5.7.4, 5.8.3 and 5.8.4 • Terrestrial Fauna <ul style="list-style-type: none"> • Sections 6.3.3, 6.3.4, 6.4.3, 6.4.4, 6.5.3, 6.5.4, 6.6.3 and 6.6.4 • Avian Migratory Species <ul style="list-style-type: none"> • Sections 8.4 and 8.5 • Threatened Estuarine and Marine Fauna <ul style="list-style-type: none"> • Sections 7.3.5, 7.3.6, 7.4.5 and 7.4.6 • Non-Avian Migratory Species <ul style="list-style-type: none"> • Sections 9.3.4, 9.3.5, 9.4.4, 9.4.5, 9.5.4 and 9.5.5 • Commonwealth Marine Area

EIS Guideline Requirement	EIS Section
	<ul style="list-style-type: none"> • Section 10.4.1, 10.4.2, 10.4.3, 10.4.4, 10.4.5, 10.4.6, and 10.4.7 • Cumulative Impacts • Sections 18.3 and 18.4
i. a summary detailing the amount of habitat to be disturbed for each of those species, communities or components of the marine environment;	As above
ii. description of the risks and relevant impacts (acute and chronic) of bauxite release. This discussion must include but not be limited to air quality impacts from bauxite dust;	<p>Risks and relevant impacts associated with bauxite release are discussed in:</p> <ul style="list-style-type: none"> • Relevant Matters of National Environmental Significance - Section 4.5.3.6 • Air Quality - Section 14.3 • Water Resources - Sections 16.1 and 16.2
iii. description of the risks and relevant impacts of pile driving and the impacts of increased marine underwater noise on marine species including the impacts from noise at varying distances from each project component (considering the environmental variables e.g. depth, wave height, bottom profile);	<p>Risks and relevant impacts associated with pile driving and increased marine underwater noise is discussed in:</p> <ul style="list-style-type: none"> • Threatened Estuarine and Marine Fauna <ul style="list-style-type: none"> • Sections 7.3.5, 7.3.6, 7.4.5 and 7.4.6 • Non-Avian Migratory Species <ul style="list-style-type: none"> • Sections 9.3.4, 9.3.5, 9.4.4, 9.4.5, 9.5.4 and 9.5.5 • Noise - Section 15.3
iv. relevant air quality impacts of the proposed action which are likely to impact on each of those species, communities or components of the marine environment;	<ul style="list-style-type: none"> • Terrestrial Flora <ul style="list-style-type: none"> • Sections 5.3.3, 5.3.4, 5.4.3, 5.4.4, 5.5.3, 5.5.4, 5.6.3, 5.6.4, 5.7.3, 5.7.4, 5.8.3 and 5.8.4 • Terrestrial Fauna <ul style="list-style-type: none"> • Sections 6.3.3, 6.3.4, 6.4.3, 6.4.4, 6.5.3, 6.5.4, 6.6.3 and 6.6.4 • Avian Migratory Species

EIS Guideline Requirement	EIS Section
	<ul style="list-style-type: none"> Sections 8.4 and 8.5 Commonwealth Marine Area - Section 10.4.4 Air Quality - Section 14.3
v. describe the potential for any interaction of extreme environmental events (e.g. cyclones, flood events) that may cause the proposed action to have a relevant impact on each of those species, communities or components of the marine environment;	<p>Project Description - Sections 3.3.1 and 3.3.2</p> <p>Threatened Estuarine and Marine Fauna -Section 7.3.5.1</p>
vi. relevant water quality impacts of the proposed action which are likely to impact on each of those species, communities or components of the marine environment;	<p>This is discussed in:</p> <ul style="list-style-type: none"> Water Resources <ul style="list-style-type: none"> Sections 16.2 and 16.4 Threatened Estuarine and Marine Fauna <ul style="list-style-type: none"> Sections 7.3.5, 7.3.6, 7.4.5, 7.4.6 and Appendix 7-A, 7-C and 7-D Non-Avian Migratory Species <ul style="list-style-type: none"> Sections 9.3.4, 9.3.5, 9.4.4, 9.4.5, 9.5.4 and 9.5.5 Commonwealth Marine Area - Section 10.4.5
vii. description of the potential impacts of dredging and dredged material disposal (with the inclusion of relevant technical appendices supporting the impact assessment including but not limited to hydrodynamic, sediment transport and sedimentation models reports, SAPs and sediment characterisation reports), where relevant;	<ul style="list-style-type: none"> Threatened Estuarine and Marine Fauna <ul style="list-style-type: none"> Sections 7.3.5.1, 7.3.6.1, 7.4.4.1, 7.4.5.1 and Appendix 7-A, 7-C, and 7-D Non-Avian Migratory Species <ul style="list-style-type: none"> Sections 9.3.4.1, 9.3.5.1, 9.4.4.1, 9.4.5.1, 9.5.4.1 and 9.5.5.1 Commonwealth Marine Area <ul style="list-style-type: none"> Sections 10.4.1, 10.4.2, 10.4.3, 10.4.5 and 10.4.6

EIS Guideline Requirement	EIS Section
<p>viii. relevant impacts of anticipated illumination on matters of NES, particularly seabirds, marine turtles and other migratory species, including impacts on nesting and disorientation; and,</p>	<p>Impacts of anticipated illumination is discussed in:</p> <ul style="list-style-type: none"> • Terrestrial Flora <ul style="list-style-type: none"> • Sections 5.3.3, 5.3.4, 5.4.3, 5.4.4, 5.5.3, 5.5.4, 5.6.3, 5.6.4, 5.7.3, 5.7.4, 5.8.3 and 5.8.4 • Terrestrial Fauna <ul style="list-style-type: none"> • Sections 6.3.3, 6.3.4, 6.4.3, 6.4.4, 6.5.3, 6.5.4, 6.6.3 and 6.6.4 • Avian Migratory Species <ul style="list-style-type: none"> • Section 8.4 and 8.5 • Threatened Estuarine and Marine Fauna <ul style="list-style-type: none"> • Sections 7.3.5 and 7.3.6 • Commonwealth Marine Area <ul style="list-style-type: none"> • Section 10.4.3 • Relevant Matters of NES <ul style="list-style-type: none"> • Section 4.4.2.14
<p>ix. relevant impacts to the sea floor through anchoring, dredging and/or the placement of material/infrastructure, and sediment disturbance.</p>	<p>This is provided in:</p> <ul style="list-style-type: none"> • Description of the Proposed Action - Section 3.8 • Threatened Estuarine and Marine Fauna <ul style="list-style-type: none"> • Sections 7.3.5, 7.3.6, 7.4.5, 7.4.6 and Appendix 7-A, 7-C, and 7-D • Non-avian Migratory <ul style="list-style-type: none"> • Sections 9.3.4, 9.3.5, 9.4.4, 9.4.5, 9.5.4 and 9.5.5 • Commonwealth Marine Area

EIS Guideline Requirement	EIS Section
	<ul style="list-style-type: none"> Sections 10.3.1, 10.4.2, 10.4.2, 10.4.3, 10.4.5 and 10.4.6
<p>b) a statement whether any relevant impacts are likely to be unknown, unpredictable or irreversible;</p>	<p>The EIS discusses data associated with all matters of NES that may be unknown or unpredictable. No relevant impacts are likely to be unknown, unpredictable or irreversible.</p> <p>The nature and extent of the likely long-term and short-term relevant impacts are discussed in:</p> <ul style="list-style-type: none"> Terrestrial Flora <ul style="list-style-type: none"> Sections 5.3.3, 5.3.4, 5.4.3, 5.4.4, 5.5.3, 5.5.4, 5.6.3, 5.6.4, 5.7.3, 5.7.4, 5.8.3 and 5.8.4 Terrestrial Fauna <ul style="list-style-type: none"> Sections 6.3.3, 6.3.4, 6.4.3, 6.4.4, 6.5.3, 6.5.4, 6.6.3 and 6.6.4 Avian Migratory Species <ul style="list-style-type: none"> Sections 8.4 and 8.5 Threatened Estuarine and Marine Fauna <ul style="list-style-type: none"> Sections 7.3.5, 7.3.6, 7.4.5 and 7.4.6 Non-Avian Migratory Species <ul style="list-style-type: none"> Sections 9.3.4, 9.3.5, 9.4.4, 9.4.5 and 9.5.4, 9.5.5 Commonwealth Marine Area <ul style="list-style-type: none"> Section 10.4.1, 10.4.2, 10.4.3, 10.4.4, 10.4.5, 10.4.6 and 10.4.7 Cumulative Impacts <ul style="list-style-type: none"> Sections 18.3 and 18.4

EIS Guideline Requirement	EIS Section
c) analysis of the significance of the relevant impacts;	<p>Significance of relevant impacts (before and after mitigation) are discussed in:</p> <ul style="list-style-type: none"> • Terrestrial Flora <ul style="list-style-type: none"> • Sections 5.3.3, 5.3.4, 5.4.3, 5.4.4, 5.5.3, 5.5.4, 5.6.3, 5.6.4, 5.7.3, 5.7.4, 5.8.3 and 5.8.4 • Terrestrial Fauna <ul style="list-style-type: none"> • Sections 6.3.3, 6.3.4, 6.4.3, 6.4.4, 6.5.3, 6.5.4, 6.6.3 and 6.6.4 • Avian Migratory Species <ul style="list-style-type: none"> • Sections 8.4 and 8.5 • Threatened Estuarine and Marine Fauna <ul style="list-style-type: none"> • Sections 7.3.5, 7.3.6, 7.4.5 and 7.4.6 • Non-Avian Migratory Species <ul style="list-style-type: none"> • Sections 9.3.4, 9.3.5, 9.4.4, 9.4.5, 9.5.4 and 9.5.5 • Commonwealth Marine Area <ul style="list-style-type: none"> • Section 10.4.1, 10.4.2, 10.4.3, 10.4.4, 10.4.5, 10.4.6 and 10.4.7 • Cumulative Impacts <ul style="list-style-type: none"> • Sections 18.3 and 18.4
d) any technical data and other information used or needed to make a detailed assessment of the relevant impacts, including references to publicly available information; and,	All the technical data and information and/or the references are included in the report and/or appendices where relevant.
e) information on the scientific reliability of survey investigations and conclusions, including any and all unknown variables or assumptions, if any, of available information that may influence the conclusions of the environmental assessment must be discussed.	<p>Survey methodology is discussed in:</p> <ul style="list-style-type: none"> • Terrestrial Flora <ul style="list-style-type: none"> • Sections 5.2, 5.3.2, 5.4.2, 5.5.2, 5.6.2, 5.7.2 and 5.8.2

EIS Guideline Requirement	EIS Section
	<ul style="list-style-type: none"> • Terrestrial Fauna <ul style="list-style-type: none"> • Sections 6.2, 6.3.2, 6.4.2, 6.5.2 and 6.6.2 • Avian Migratory Species - Section 8.3 • Threatened Estuarine and Marine Fauna (and Commonwealth Marine Area <ul style="list-style-type: none"> • Sections 7.3.3 and 7.4.3 • Non-Avian Migratory Species <ul style="list-style-type: none"> • Sections 9.3.2, 9.4.2 and 9.5.2
A3 Proposed avoidance and mitigation measures	
<p>In relation to the relevant impacts described in A2, provide a description of the proposed safeguards and mitigation measures to deal with relevant impacts of the mine, port development and associated infrastructure, including:</p>	<p>Outline provided as follows. Detailed section numbers provided under subheading:</p> <ul style="list-style-type: none"> • Terrestrial Flora – Section 5 • Terrestrial Fauna - Section 6 • Marine Fauna – Section 7 • Avian Migratory – Section 8 • Non-Avian Migratory – Section 9 • Commonwealth Marine Area – Section 10
<p>a) a description, and an assessment of the expected or predicted effectiveness of, the mitigation measures;</p>	<p>Mitigation measures are discussed in:</p> <ul style="list-style-type: none"> • Terrestrial Flora <ul style="list-style-type: none"> • Sections 5.3.4, 5.3.5, 5.4.4, 5.4.5, 5.5.4, 5.5.5, 5.6.4, 5.6.5, 5.7.4, 5.7.5, 5.8.4 and 5.8.5 • Terrestrial Fauna <ul style="list-style-type: none"> • Sections 6.3.4, 6.3.5, 6.4.4, 6.4.5, 6.5.4, 6.5.5, 6.6.4 and 6.6.5

EIS Guideline Requirement	EIS Section
	<ul style="list-style-type: none"> • Avian Migratory Species <ul style="list-style-type: none"> • Sections 8.5 and 8.6 • Threatened Estuarine and Marine Fauna <ul style="list-style-type: none"> • Sections 7.3.5, 7.3.6, 7.4.5 and 7.4.6 • Non-Avian Migratory Species <ul style="list-style-type: none"> • Sections 9.3.4, 9.3.5, 9.4.4, 9.4.5, 9.5.4 and 9.5.5 • Commonwealth Marine Area <ul style="list-style-type: none"> • Sections 10.4.1, 10.4.2, 10.4.3, 10.4.4 10.4.5, 10.4.6 and 10.4.7
b) particular focus must be given to discussing the mitigation measures for relevant impacts of the proposed actions on each matter of national environmental significance:	As above
i. determining factors in the planning of the proposal so as to avoid damage to the environment;	As above
ii. measures to avoid or minimise disturbance to fauna and flora found around and within the proposed disturbance areas for matters of national environmental significance;	As above
iii. management of the dredged material during the loading of the dredged material;	<p>Management of dredged material is primarily described in:</p> <ul style="list-style-type: none"> • Draft Dredge Management Plan – Port – Appendix 7-C • Draft Dredge Management Plan – River Facilities – Appendix 7-D <p>Specific mitigation measures as they relate to individual matters of NES are described in the relevant sections:</p> <ul style="list-style-type: none"> • Threatened Estuarine and Marine Fauna <ul style="list-style-type: none"> • Sections 7.3.5, 7.3.6, 7.4.5 and 7.4.6 • Non-avian Migratory

EIS Guideline Requirement	EIS Section
	<ul style="list-style-type: none"> Sections 9.3.4, 9.3.5, 9.4.4, 9.4.5, 9.5.4 and 9.5.5 Commonwealth Marine Area Sections 10.4.1, 10.4.2, 10.4.3, 10.4.5 and 10.4.6
iv. management of the dredged material disposal area(s) during disposal operations;	As above
v. description of adaptive management strategies for dredging, loading and disposal, this may include any proposed monitoring (including monitoring for water quality parameters that are likely to be impacted based on baseline water quality data, coral health, seagrass health and Benthic Primary Producer Habitat (BPPH) where relevant);	<p>Adaptive management strategies for dredging are primarily discussed in:</p> <ul style="list-style-type: none"> Draft Dredge Management Plan – Port – Appendix 7C Draft Dredge Management Plan – River Facilities – Appendix 7D <p>These adaptive management strategies are reflected in the following relevant sections on matters of NES:</p> <ul style="list-style-type: none"> Threatened Estuarine and Marine Fauna - Sections 7.3.6 Non-avian Migratory - Sections 9.4.5 Commonwealth Marine Area - Sections 10.4.
vi. the adaptive management strategies for dredging, loading and disposal should also include the proposed methodology to verify the impact prediction, where relevant;	<p>Appendix 7-C: Dredge Management Plan – Port Section 6.1</p> <p>Appendix 7-D: Dredge Management Plan – River Facilities Section 6.1</p>
vii. monitoring of water quality and operational performance monitoring; and	<p>Water quality monitoring provided in:</p> <ul style="list-style-type: none"> Water Resources <ul style="list-style-type: none"> Sections 16.2, 16.4 and 16.5 <p>This monitoring is reflected in the following relevant sections on matters of NES:</p> <ul style="list-style-type: none"> Threatened Estuarine and Marine Fauna <ul style="list-style-type: none"> Sections 7.3.6, and 7.4.6 Non-avian migratory Species

EIS Guideline Requirement	EIS Section
	<ul style="list-style-type: none"> Sections 9.3.5, 9.4.5 and 9.5.5 Appendix 7-C: Dredge Management Plan – Port Section 6.1 Appendix 7-D: Dredge Management Plan – River Facilities Section 6.1
viii. staff training, including training in relation to environmental issues.	General Information and Background - Section 2.2
c) any statutory or policy basis for the mitigation measures;	Introduction and Background - Section 2.7
d) the cost of the key mitigation measures;	Cost of Mitigation - Appendix 5-B
e) an outline of an environmental management plan (or plans) that set out the framework for continuing management, mitigation and monitoring programs for the relevant impacts of the action (both on and off-site), including any provisions for independent environmental auditing;	<p>Environmental Management Plan Outlines are provided in Appendices 5-A, 6-C, 7-E, 8-A, 9-A, 10-A and 11-A.</p> <p>Note that separate Dredge Management Plans have been prepared to specifically addressed environmental management during dredging operations and these are provided in Appendices 7-C and 7-D</p>
f) the plan(s) must allow for the collection of baseline environmental data, and ongoing monitoring, management and mitigation for the duration of the action and subsequent mine rehabilitation, so impacts on matters of NES can be adequately measured;	As above
g) the plan(s) must also detail how any management strategy or monitoring program would influence environmental practices on site, including trigger values and response measures where appropriate;	As above
h) the name of the agency responsible for endorsing or approving each mitigation measure or monitoring program; and,	Introduction and Background - Section 2.7
i) a consolidated summary list of mitigation measures proposed to be undertaken to prevent, minimise or compensate for the relevant impacts of the action, including mitigation measures proposed to be taken by State governments, local governments or the proponent.	Conclusions - Section 20.5
PART B	
Part B sets out the assessment requirements that the proponent must address in relation to	Noted

EIS Guideline Requirement	EIS Section
<p>the impacts of the entirety of the project action. Specifically, those requirements incorporate the assessment of the impacts of the mine, port development, associated infrastructure, and shipping activities, for all six of the controlling provisions for the project, to the extent those impacts are not addressed in Part A. The applicable controlling provisions are as follows:</p> <ul style="list-style-type: none"> • World Heritage properties (sections 12 and 15A); • National Heritage places (sections 15B and 15C); • Listed threatened species and ecological communities (sections 18 and 18A); • Listed migratory species (sections 20 and 20A); • Commonwealth marine areas (sections 23 and 24A); and, • Great Barrier Reef Marine Park (sections 24B and 24C). 	
B1 Matters of National Environmental Significance (NES)	
<p>For each matter of NES for Part B that is likely or known to occur in areas that will be or are likely to be impacted by the proposed actions the following must be provided:</p>	
<p>a) A description of the Commonwealth marine environment and identification of those aspects of the Commonwealth marine area likely to be impacted by the proposal, including but not limited to information (and with regard to secondary source information) on listed threatened species and migratory species and any other component of the commonwealth marine environment that is likely to be impacted by the action;</p>	<ul style="list-style-type: none"> • Relevant Matters of National Environmental Significance <ul style="list-style-type: none"> • Sections 4.4.1, 4.4.3, 4.5.1, and 4.5.2 • Threatened Estuarine and Marine Fauna <ul style="list-style-type: none"> • Sections 7.2, 7.3 and 7.4 • Non-Avian Migratory Species <ul style="list-style-type: none"> • Sections 9.2, 9.3, 9.4 and 9.5 • Commonwealth Marine Area <ul style="list-style-type: none"> • Sections 10.2 and 10.4 • Great Barrier Reef Marine Park

EIS Guideline Requirement	EIS Section
	<ul style="list-style-type: none"> Sections 11.2 and 11.4 World Heritage Property <ul style="list-style-type: none"> Sections 12.2 and 12.4 National Heritage Place <ul style="list-style-type: none"> Sections 13.2 and 13.4
b) Description of biota/biotic habitats, including a map of marine/intertidal habitats(including information on seasonal fluctuations of seagrass prevalence) likely to be impacted by the action;	As above
c) Identify, describe and map reef communities in areas likely to be impacted by the action, including information on diversity (genus level or lowest taxonomic level identifiable) and abundance, and on those species supported by the reef communities;	<ul style="list-style-type: none"> Relevant Matters of National Environmental Significance - Section 4.2.1.5 Threatened Estuarine and Marine Fauna <ul style="list-style-type: none"> Sections 7.2.3 and 7.2.4 Figure 4-3 Habitat Distribution and Classification Figure 7-2 Reefal habitat between Pera Head and Boyd Point
d) Identify, describe and map, where relevant, soft sediment fauna communities (e.g. infauna, benthic invertebrates) in areas likely to be significantly impacted by the proposed increase in shipping activities, including information on diversity (family level) and abundance; and,	<p>Note that there are no soft sediment fauna communities likely to be significantly impacted by the proposed increase in shipping activities. However, soft sediment fauna communities are described and discussed in:</p> <ul style="list-style-type: none"> Relevant Matters of National Environmental Significance - Section 4.2.1.5 Threatened Estuarine and Marine Fauna <ul style="list-style-type: none"> Section 7.2.9 Figure 4-3 Habitat Distribution and Classification
e) A description of the Great Barrier Reef Marine Park, National Heritage Place and World Heritage Property values, and their location compared to action.	<ul style="list-style-type: none"> Relevant Matters of National Environmental Significance <ul style="list-style-type: none"> Sections 4.4.1.2, 4.5.2.3, 4.5.2.4 and 4.5.2.5 Great Barrier Reef Marine Park - Section 11.2 World Heritage Property - Section 12.2

EIS Guideline Requirement	EIS Section
	<ul style="list-style-type: none"> National Heritage Place - Section 13.2
B2 Relevant Impacts	
In relation to the matters described in B1, provide a description of the relevant impacts (as defined by section 82 of the EPBC Act), including:	
a) a description of the relevant impacts of the action including impacts of shipping activities on listed threatened species and listed migratory species from shipping transit to and from the proposed new port development (and associated infrastructure);	This is discussed in: <ul style="list-style-type: none"> Relevant Matters of NES - Section 4.5.2 Threatened Estuarine and Marine Fauna <ul style="list-style-type: none"> Sections 7.3.5.3, and 7.3.6.3 Non-Avian Migratory Species <ul style="list-style-type: none"> Sections 9.3.4, 9.4.4.3, 9.4.5.3, 9.5.4.3 and 9.5.5.3 Commonwealth Marine Area - Section 10.4 Great Barrier Reef Marine Park - Section 11.4 World Heritage Property - Section 12.4 National Heritage Place - Section 13.4
b) a detailed assessment of the nature and extent of the likely short term and long term relevant impacts;	As above
i. a statement whether any relevant impacts are likely to be unknown, unpredictable or irreversible;	The EIS discusses data associated with all matters of NES that may be unknown or unpredictable. No relevant impacts are likely to be unknown, unpredictable or irreversible. This is discussed in: <ul style="list-style-type: none"> Relevant Matters of NES - Section 4.5.2 Threatened Estuarine and Marine Fauna <ul style="list-style-type: none"> Sections 7.3.5.3, and 7.3.6.3

EIS Guideline Requirement	EIS Section
	<ul style="list-style-type: none"> • Non-Avian Migratory Species <ul style="list-style-type: none"> • Sections 9.3.4, 9.4.4.3, 9.4.5.3, 9.5.4.3 and 9.5.5.3 • Commonwealth Marine Area - Section 10.4 • Great Barrier Reef Marine Park - Section 11.4 • World Heritage Property - Section 12.4 • National Heritage Place - Section 13.4
ii. analysis of the significance of the relevant impacts; and	As above
iii. of shipping activities on matters of NES from shipping transit from the proposed new port development.	<p>This is discussed in:</p> <ul style="list-style-type: none"> • Relevant Matters of NES - Section 4.5.2 • Threatened Estuarine and Marine Fauna <ul style="list-style-type: none"> • Sections 7.3.5.3, and 7.3.6.3 • Non-Avian Migratory Species <ul style="list-style-type: none"> • Sections 9.3.4, 9.4.4.3, 9.4.5.3, 9.5.4.3 and 9.5.5.3 • Commonwealth Marine Area - Section 10.4 • Great Barrier Reef Marine Park - Section 11.4 • World Heritage Property - Section 12.4 • National Heritage Place - Section 13.4
c) any technical data and other information used or needed to make a detailed assessment of the relevant impacts, including references to publicly available information. In regard to increased shipping volumes (including barges and queuing vessels), relevant impacts of the following must be specifically addressed:	As above
i. potential for introduction of marine invasive species from increased shipping rates;	<p>This is discussed in:</p> <ul style="list-style-type: none"> • Matters of NES - Section 4.5.2.16 • Threatened Estuarine and Marine Fauna

EIS Guideline Requirement	EIS Section
	<ul style="list-style-type: none"> Sections 7.3.5 and 7.4.5 Non-Avian Migratory Species <ul style="list-style-type: none"> Sections 9.3.4, 9.4.4 and 9.5.4 Commonwealth Marine Area - Section 10.4.1 Great Barrier Reef Marine Park - Section 11.4.5 World Heritage Property - Section 12.4.4 National Heritage Place - Section 13.4.1
<p>ii. potential increase in ship groundings and related relevant impacts;</p>	<p>This is discussed in:</p> <ul style="list-style-type: none"> Matters of NES - Section 4.5.2.5 Threatened Estuarine and Marine Fauna <ul style="list-style-type: none"> Sections 7.3.5.3, and 7.3.6.3 Non-Avian Migratory Species <ul style="list-style-type: none"> Sections 9.4.4.3, 9.4.5.3, 9.5.4.3 and 9.5.5.3 Commonwealth Marine Area <ul style="list-style-type: none"> Section 10.4.2 and 10.4.5 Great Barrier Reef Marine Park <ul style="list-style-type: none"> Sections 11.4.1 and 11.4.4 World Heritage Property - Section 12.4 National Heritage Place - Section 13.4
<p>iii. potential increased risk of vessel collisions and related relevant impacts;</p>	<p>This is discussed in:</p> <ul style="list-style-type: none"> Matters of NES - Section 4.5.2.5 Threatened Estuarine and Marine Fauna <ul style="list-style-type: none"> Sections 7.3.5.3 and 7.3.5.3

EIS Guideline Requirement	EIS Section
	<ul style="list-style-type: none"> • Non-Avian Migratory Species <ul style="list-style-type: none"> • Sections 9.4.4.3, 9.4.4.4, 9.5.4.3 and 9.5.4.4 • Commonwealth Marine Area <ul style="list-style-type: none"> • Sections 10.4.2 and 10.4.5 • Great Barrier Reef Marine Park <ul style="list-style-type: none"> • Sections 11.4.1, 11.4.2, and 11.4.4 • World Heritage Property - Section 12.4 • National Heritage Place - Section 13.4
iv. potential for increased vessel strike to marine species;	<p>This is discussed in:</p> <ul style="list-style-type: none"> • Matters of NES - Section 4.5.2.15 • Threatened Estuarine and Marine Fauna <ul style="list-style-type: none"> • Sections 7.3.5.3 and 7.3.6.3 • Non-Avian Migratory Species <ul style="list-style-type: none"> • Sections 9.4.4.3, 9.4.4.4, 9.5.4.3 and 9.5.4.4 • Commonwealth Marine Area <ul style="list-style-type: none"> • Section 10.4.2 and 10.4.3 • Great Barrier Reef Marine Park - Section 11.4.2 • World Heritage Property - Table 12-3
v. ballast water management arrangements - including Australian Quarantine and Inspection Service (AQIS) mandatory arrangements and agency contingency planning;	<p>This is discussed in:</p> <ul style="list-style-type: none"> • Matters of NES - Section 4.5.2.16 • Threatened Estuarine and Marine Fauna <ul style="list-style-type: none"> • Sections 7.3.5.3 and 7.3.6.3.

EIS Guideline Requirement	EIS Section
	<ul style="list-style-type: none"> • Non-Avian Migratory Species <ul style="list-style-type: none"> • Sections 9.4.4.3, 9.4.4.4, 9.5.4.3 and 9.5.4.4 • Commonwealth Marine Area - Section 10.4.1 • Great Barrier Reef Marine Park - Section 11.4.5 • World Heritage Property - Section 12.4.3 • National Heritage Place - Section 13.4.1
<p>vi. management of ship waste, in particular quarantine waste, domestic garbage, oil and sewage;</p>	<p>This is discussed in:</p> <ul style="list-style-type: none"> • Matters of NES <ul style="list-style-type: none"> • Section 4.5.2.9, 4.5.2.10, 4.5.2.11 and 4.5.2.12 • Threatened Estuarine and Marine Fauna <ul style="list-style-type: none"> • Sections 7.3.5.3 and 7.3.6.3 • Non-Avian Migratory Species <ul style="list-style-type: none"> • Sections 9.4.4.3, 9.4.5.3, 9.5.4.3 and 9.5.5.3 • Great Barrier Reef Marine Park - Section 11.4.1
<p>vii. potential risk of marine pollutant spills and their management, and based on a risk assessment which identifies any considerable risk, the most likely scenarios (eg geographic areas, pollutant types and relative amounts) for a shipping incident and includes stochastic modelling for those areas including likely worst case scenario for each high risk geographic area;</p>	<p>This is discussed in:</p> <ul style="list-style-type: none"> • Matters of NES <ul style="list-style-type: none"> • Section 4.5.2.6, 4.5.2.7 and 4.5.2.8 • Threatened Estuarine and Marine Fauna <ul style="list-style-type: none"> • Sections 7.3.5.3, 7.3.5.4, 7.3.6.3 and 7.3.6.4 • Non-Avian Migratory Species <ul style="list-style-type: none"> • Sections 9.3.4.3, 9.3.4.5, 9.4.4.3, 9.4.4.4, 9.5.4.3 and 9.5.4.4 • Commonwealth Marine Area - Section 10.4.6

EIS Guideline Requirement	EIS Section
	<ul style="list-style-type: none"> Great Barrier Reef Marine Park <ul style="list-style-type: none"> Sections 11.4.1 and 11.4.4 World Heritage Property - Section 12.4 National Heritage Place - Section 13.4
viii. potential impacts on existing shipping activity;	<p>Discussed in:</p> <ul style="list-style-type: none"> Commonwealth Marine Area - Section 10.3 Great Barrier Marine Park - Section 11.3 World Heritage Property - Section 12.3 National Heritage Place - Section 13.3
ix. impacts of increased marine underwater noise on marine species from shipping activities, including trans-shipping;	<p>This is discussed in:</p> <ul style="list-style-type: none"> Matters of NES - Section 4.5.2.13 Threatened Estuarine and Marine Fauna <ul style="list-style-type: none"> Sections 7.3.5 and 7.3.6 Non-Avian Migratory Species <ul style="list-style-type: none"> Sections 9.5.5, 9.5.6, 9.6.6 and 9.6.7 Great Barrier Reef Marine Park - Section 11.4.2 World Heritage Property - Table 12-4 Noise - Section 15.3
x. description of the risks and relevant impacts (acute and chronic) from the release of cargo material (bauxite) from the proposed actions to the environment;	<p>This is discussed in:</p> <ul style="list-style-type: none"> Relevant Matters of National Environmental Significance - Section 4.5.4.6 Great Barrier Reef Marine Park - Section 11.4.4 Air Quality - Section 14.3
xi. relevant impacts to the sea floor through anchoring and/or direct placement of	Existing anchoring locations are proposed to be used and therefore no

EIS Guideline Requirement	EIS Section
<p>material/infrastructure, sediment disturbance. If relevant, the GBRMP zone of likely seabed disturbance must be identified including impacts on other users of the Great Barrier Reef Marine Park; and</p>	<p>additional impacts would result (Section 11.4.1.1 and 11.4.2.1). However discussed briefly in:</p> <ul style="list-style-type: none"> • Commonwealth Marine Area - Section 10.4 • Great Barrier Marine Park - Section 11.4 • World Heritage Property - Section 12.4 • National Heritage Place - Section 13.4
<p>xii. additional marine transport issues that must be considered include the potential of the proposal to impact on domestic commercial and recreational vessels.</p>	<p>Discussed in:</p> <ul style="list-style-type: none"> • Commonwealth Marine Area - Section 10.3 • Great Barrier Marine Park - Section 11.3 • World Heritage Property - Section 12.3 • National Heritage Place - Section 13.3
<p><i>Cumulative impacts:</i></p> <p>In relation to cumulative impacts, the EIS must identify and address cumulative impacts (refer to section 527E of the EPBC Act for the meaning of impact), where relevant project impacts are in addition to existing impacts of other activities (including known current and proposed future shipping activities by the proponent and other proponents in the region and vicinity).</p> <p><u>Shipping activities</u></p> <p>The contribution of the proposed shipping activities by the proponent to the cumulative impact of shipping on matters of NES should be assessed in accordance with a risk based approach, based on a documented risk assessment. The risk assessment should include:</p>	
<p>a) known and proposed future shipping activities by the proponent, referencing the level of shipping activities by the proponent prior to and following commencement of the Project; and,</p>	<p>This is included in:</p> <ul style="list-style-type: none"> • Description of the Proposed Action <ul style="list-style-type: none"> • Sections 3.9.1, 3.9.2 and 3.9.3 • Shipping Route is shown in: <ul style="list-style-type: none"> ▪ Figure 2-3 Shipping Routes and MNES

EIS Guideline Requirement	EIS Section
	<ul style="list-style-type: none"> ▪ Figure 3-10 International and Domestic Shipping Routes • Cumulative and Consequential Impacts <ul style="list-style-type: none"> • Sections 18.2.9, 18.2.10 and 18.4
b) other proponents shipping activities and known impacts on ecosystem resilience and matters of NES.	Cumulative and Consequential Impacts <ul style="list-style-type: none"> • Sections 18.4.2, 18.4.3 and 18.4.4
Where the risk assessment demonstrates that the Project's contribution to the cumulative impacts of shipping is significant, the EIS may also identify and address the cumulative effects the increase in shipping activities arising from the Project may have in the context of:	
a) existing or planned shipping activities, that will have or are likely to effect the same matters of NES; and,	Cumulative and Consequential Impacts: <ul style="list-style-type: none"> • Sections 18.4.1, 18.4.2, 18.4.3 and 18.4.4
b) other projects (including tourism and industrial related) both directly and indirectly related to the shipping activities in a regional context.	Cumulative and Consequential Impacts <ul style="list-style-type: none"> • Sections 18.2.9 and 18.2.10
<p><i>Consequential Impacts</i></p> <p>Consideration of impacts must address consequential impacts where relevant, including local, regional, state, and national (refer to section 527E of the EPBC Act for the meaning of impact). Where relevant, the EIS must address consequential impacts on:</p>	
a) the World Heritage values of the Great Barrier Reef World Heritage property;	Cumulative and Consequential Impacts - Section 18.4.3
b) the National Heritage values of the Great Barrier Reef National Heritage place;	Cumulative and Consequential Impacts - Section 18.4.3
c) the environment and values of the Great Barrier Reef Marine Park;	Cumulative and Consequential Impacts - Sections 18.4.2 and 18.4.3
d) listed threatened species and ecological communities;	Cumulative and Consequential Impacts - Section 18.3.4
e) listed migratory species; and,	Cumulative and Consequential Impacts - Sections 18.3.4 and 18.3.5
f) the Commonwealth marine environment.	Cumulative and Consequential Impacts - Section 18.4.3

EIS Guideline Requirement	EIS Section
<p>B3 Proposed avoidance and mitigation measures</p> <p>In relation to the relevant impacts described in B2, provide a description of the proposed safeguards and mitigation measures to deal with relevant impacts of the action on matters of NES, including:</p>	
<p>a) a description, and an assessment of the expected or predicted effectiveness of, the mitigation measures;</p>	<p>This is discussed in Relevant Matters of NES - Section 4.5.2 and Appendix 4-C</p> <p>Refer to sections identified in EIS Guideline Requirement Part 4.5, A3 (a) for the terrestrial species.</p> <p>Additional information is provided in :</p> <ul style="list-style-type: none"> • Threatened Estuarine and Marine Fauna <ul style="list-style-type: none"> • Sections 7.3.6, 7.3.7, 7.4.6 and 7.4.7 • Non-Avian Migratory Species <ul style="list-style-type: none"> • Sections 9.3.5, 9.4.5, 9.5.5 and 9.5.6 • Commonwealth Marine Area <ul style="list-style-type: none"> • Sections 10.4.1.2, 10.4.2.2, 10.4.3.2, 10.4.4.2, 10.4.5.2, 10.4.6.2, 10.4.7.2 and 10.5 • Great Barrier Reef Marine Park <ul style="list-style-type: none"> • Sections 11.4.1.2, 11.4.2.2, 11.4.3.2, 11.4.4.2, 11.4.5.2, 11.4.6.2, 11.4.7.2, 11.5 and 11.6 • World Heritage Property <ul style="list-style-type: none"> • Sections 12.4, 12.5 and 12.6 • National Heritage Places <ul style="list-style-type: none"> • Sections 13.4, 13.5 and 13.6

EIS Guideline Requirement	EIS Section
b) any statutory or policy basis for the mitigation measures;	Introduction and Background - Section 2.7
c) the cost of the key mitigation measures;	Cost of Mitigation - Appendix 5-B
d) an outline of an environmental management plan that sets out the framework for continuing management, mitigation and monitoring programs for the relevant impacts of the action, including any provisions for independent environmental auditing;	Environmental Management Plan Outlines are provided in Appendices 5-A, 6-C, 7-E, 8-A, 9-A, 10-A and 11-A
e) the name of the agency responsible for endorsing or approving each mitigation measure or monitoring program;	Environmental Management Plan Outlines are provided in Appendices 5-A, 6-C, 7-E, 8-A, 9-A, 10-A and 11-A
f) a consolidated list of mitigation measures proposed to be undertaken to prevent, minimise or compensate for the relevant impacts of the action, including mitigation measures proposed to be taken by State governments, local governments or the proponent; and,	Conclusions - Section 20.4
g) measures to avoid or minimise damage to the Great Barrier Reef World Heritage Area and (where applicable) the estuary environment, National Heritage Values of the Great Barrier Reef, the environment of the Great Barrier Reef Marine, and the Commonwealth marine area as a result of the proposed shipping activities.	<p>This information is provided in:</p> <ul style="list-style-type: none"> Commonwealth Marine Environment <ul style="list-style-type: none"> Sections 10.4.1.2, 10.4.2.2, 10.4.3.2, 10.4.4.2, 10.4.5.2 and 10.4.6.2 Great Barrier Reef Marine Park <ul style="list-style-type: none"> Sections 11. 4.1.2, 11.4.2.2, 11.4.3.2, 11.4.4.2, 11.4.5.2, 11.4.6.2 and 11.4.7.2 World Heritage Properties - Section 12.4 National Heritage Places - Section 13.4
4.5 Other approvals and conditions	
Provide information on any other requirements for approval or conditions that apply, or that the proponent reasonably believes are likely to apply, to the proposed action. This must include:	
a) details of any local or State government planning scheme, or plan or policy under any local	General Information and Background - Section 2.7

EIS Guideline Requirement	EIS Section
or State government planning system that deals with the proposed action, including:	
i. what environmental assessment of the proposed action has been, or is being, carried out under the scheme, plan or policy; and,	General Information and Background - Section 2.7
ii. how the scheme provides for the prevention, minimisation and management of any relevant impacts;	General Information and Background - Section 2.7
b) a description of any approval that has been obtained from a State, Territory or Commonwealth agency or authority (other than an approval under the EPBC Act), including any conditions that apply to the action;	General Information and Background - Section 2.7
c) a statement identifying any additional approval that is required; and,	General Information and Background - Section 2.7
d) a description of the monitoring, enforcement and review procedures that apply, or are proposed to apply, to the action.	General Information and Background - Section 2.7
4.7 Proposed offset measures	
<p>Environmental offsets broadly means measures to compensate for the adverse residual impacts of an action on the environment. More specifically, offsets are measures to compensate for significant environmental impacts that cannot be adequately reduced through avoidance or mitigation.</p> <p>Offsets do not reduce the impacts of an action. Instead they provide an environmental counterbalance to the significant impacts that may remain after avoidance and mitigation measures has been undertaken. These remaining impacts are termed 'residual impacts'. Further information on offsets can be found in the Australian Government's framework on the use of environmental offsets ('offsets') under the EPBC Act, Titled <i>Consultation Draft, Environmental Offsets Policy August 2011</i>.</p> <p>The EIS must discuss in detail plans to offset any significant residual impacts of the proposal. The proposed offset strategy must address any significant residual impacts on each matter of</p>	<p>The need for offset measures and residual impacts are discussed in:</p> <ul style="list-style-type: none"> Terrestrial Flora <ul style="list-style-type: none"> Sections 5.3.4, 5.3.5, 5.4.4, 5.4.5, 5.5.4, 5.5.5, 5.6.4, 5.6.5, 5.7.4, 5.7.5, 5.8.4 and 5.8.5 Terrestrial Fauna <ul style="list-style-type: none"> Sections 6.3.4, 6.3.5, 6.4.4, 6.4.5, 6.5.4, 6.5.5, 6.6.4 and 6.6.5 Avian Migratory Species <ul style="list-style-type: none"> Sections 8.5 and 8.6 Threatened Estuarine and Marine Fauna <ul style="list-style-type: none"> Sections 7.3.7 and 7.4.7

EIS Guideline Requirement	EIS Section
national environmental significance individually, and:	<ul style="list-style-type: none"> • Non-Avian Migratory Species <ul style="list-style-type: none"> • Sections 9.3.6, 9.4.6 and 9.5.6 • Commonwealth Marine Area - Section 10.5 • Great Barrier Reef Marine Park - Section 11.5 • World Heritage Property - Section 12.5 • National Heritage Place - Section 13.5
a) have regard to the scale and intensity of impact from the development on the site;	As above
b) demonstrate how the offset will achieve long-term conservation outcomes for matters of NES;	As above
c) contain long-term and certain conservation outcomes for matters of NES; and,	As above
d) consider the approach of the relevant state or territory.	As above
4.8 Social and Economic Matters	
Section 136(1)(b) of the EPBC Act requires the Minister to consider economic and social matters when deciding whether to grant approval to the proposed action under Part 9 of the EPBC Act. The requirements under s136(1)(b) encompass a broader range of matters that may be considered than those addressed during the assessment of the potential impacts of a controlled action.	
<p>Accordingly, information must be provided in the EIS on the broad social and economic impacts (positive or negative) of the proposal for the purposes of the Part 9 decision on approval.</p> <p>As the matters protected by the controlling provisions for this action include "the environment", there is the potential for an overlap between the information provided in response to this, and the information requested in the main body of the Guidelines in relation to social, economic and cultural aspects within the definition of the environment. The latter set of information need not be repeated if it will be contained in the body of the EIS.</p>	

EIS Guideline Requirement	EIS Section
The EIS must identify and describe the following uses that exist in areas likely to be impacted by the action and, assess any impacts on those users where the impacts are likely to be high, including:	
a) social, cultural and heritage uses during each stage of the proposal;	Social and Economic Matters - Section 17.4
b) current and projected commercial, recreational and scientific use, including any changes in visitation patterns;	Social and Economic Matters - Sections 17.4.3, 17.4.6, and 17.4.7
c) commercial and recreational fishing; and,	Social and Economic Matters - Section 17.4.3
d) traditional use activities. In relation to shipping activities describe local and regional economic, social and built context, including historical and future trends, (e.g. Australian Bureau of Statistics and Great Barrier Reef Outlook Report 2009) in which this project is proposed.	Social and Economic Matters - Section 17.4.8
4.9 Environmental record	
Provide 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:	
a) the person proposing to take the action; and,	General Information and Background - Section 2.2
b) for an action for which a person has applied for a permit, the person making the application.	General Information and Background - Section 2.2
If the person proposing to take the action is a corporation, provide details of the corporation's environmental policy and planning framework. Information relating to the persons environmental record may also include any accreditations (for example ISO 14001), environmental awards, and other recognition for environmental	General Information and Background - Section 2.2

EIS Guideline Requirement	EIS Section
performance.	
4.10 Guidelines that must be utilised in the EIS	
The following guidelines must be utilised in the EIS:	
a) National Assessment Guidelines for Dredging 2009;	General Information and Background - Section 2.7.1
b) Annex 2 1996 Protocol to the Convention on the prevention of marine pollution by dumping of wastes and other matter 1972 (the London Protocol); and,	General Information and Background - Section 2.7.1
c) Waste Specific Guidelines for Assessment of Dredged Material. International Maritime Organisation.	General Information and Background - Section 2.7.1
4.11 Conclusion	
An overall conclusion as to the environmental acceptability of the proposal must be provided, including discussion on compliance with the objectives and requirements of the EPBC Act including the principles of ecological sustainable development (refer Attachment 2). A summary of reasons justifying undertaking the proposal in the manner proposed must also be outlined. The conclusion must highlight measures proposed or required to avoid, mitigate or offset any unavoidable significant impacts on matters of NES.	Conclusions - Section 20
4.12 Information sources	
For information given in the EIS, the EIS must state:	
a) the source of the information;	The source of all information is provided in the References Section.
b) how recent the information is;	The source of all information is provided in the References Section.
c) how the reliability of the information was tested;	Survey methodology is discussed in: <ul style="list-style-type: none"> • Terrestrial Flora <ul style="list-style-type: none"> • Sections 5.2, 5.3.2, 5.4.2, 5.5.2, 5.6.2, 5.7.2 and 5.8.2 • Terrestrial Fauna

EIS Guideline Requirement	EIS Section
	<ul style="list-style-type: none"> Sections 6.2, 6.3.2, 6.4.2, 6.5.2 and 6.6.2 Avian Migratory Species - Section 8.1.3 Threatened Estuarine and Marine Fauna <ul style="list-style-type: none"> Sections 7.3.3 and 7.4.3 Non-Avian Migratory Species <ul style="list-style-type: none"> Sections 9.3.2, 9.4.2 and 9.5.2
d) what uncertainties (if any) are in the information;	As above
e) the qualifications and experience of the study team and any specialist consultants; and	The qualifications and experience of the study team is provided in Appendix 2-B
f) the parts of the EIS each individual was responsible for, or had input into.	The responsibilities of the study team is provided in Appendix 2-B
A copy of all data and the sampling methodologies must be made available to the DSEWPac for the purpose of peer review on receipt of a written request from DSEWPac. In making this statement, the sampling methodology (including time samples were collected, replication, size of samples, etc) should be specified in the relevant sections where data has been collected.	
4.13 Appendices and Glossary	
<p>Detailed technical information studies or investigations necessary to support the main text of the EIS in respect to relevant impacts, but not suitable for inclusion in the main text must be included as appendices; for example, detailed technical or statistical information, maps, risk assessment, baseline data, supplementary reports etc or other publicly available information referenced. Where appropriate, technical reports can be attached in an electronic format (such as CD).</p> <p>A copy of the Guidelines must also be included.</p> <p>A glossary defining technical terms and abbreviations used in the text must be included to assist the general reader.</p>	<p>Appendices providing supporting technical information have been provided.</p> <p>The Guidelines have been provided in Appendix 2-A.</p> <p>A glossary and acronym section has been provided.</p>