

APPENDIX D – CROSS REFERENCE TABLE – FEDERAL GOVERNMENT EIS GUIDELINES

Guidelines Section		Relevant EIS Section
5.1	Executive Summary	
	An executive summary that outlines the key findings of the EIS must be provided. The executive summary must briefly:	Executive Summary
	a) State the background and the need for the proposal;	Executive Summary
	b) Discuss alternatives and the reasons for selecting the preferred option and rejecting the alternatives;	Executive Summary
	c) Summarise the decommissioning of existing infrastructure, pre-operational (construction), operational and post-operational activities associated with putting the proposal into practice;	Executive Summary
	d) State the proposed schedule for each key component of the proposal, the relationships and interdependencies between each stage, the expected duration of each stage and the proposal as a whole;	Executive Summary
	e) Provide an overview of the existing regional and local environments, summarising the features of the physical, biological, social, cultural and economic environment relating to the proposal and associated activities;	Executive Summary
	f) Summarise stakeholder consultation undertaken in preparing the EIS;	Executive Summary
	g) Describe the expected, likely and potential impacts of the proposal on the physical, biological, social, cultural and economic environment during decommissioning of existing infrastructure, pre-operational (construction), operational and post-operational phases;	Executive Summary
	h) Summarise the environmental protection measures and safeguards, mitigation measures, offsets and monitoring to be implemented for the proposal; and	Executive Summary
	i) Provide an outline of the environmental record of the proponent.	Executive Summary
5.2	Objective	
	The objectives of the EIS must be clearly stated and include specific reference to EPBC Act and GBRMP Act legislative requirements.	1
5.3	General Information	
	The EIS is to provide the background of the proposed development. This is to include:	
	1. The title of the proposal;	1.2
	2. The full name and postal address of the designated proponent;	1.1
	3. A clear outline of the proposal;	1.2

Guidelines Section		Relevant EIS Section
	4. The location of the proposal;	2.1
	5. The background to the development of the proposal;	1.2, 1.4
	6. How the proposal relates to any other developments (of which the proponent should reasonably be aware) that have been, or are being, taken or that have been approved in the region (including the Keppel Group, islands in the southern GBR and the Capricorn Coast);	1.5
	7. The current status of the proposal;	1
	8. The consequences of not proceeding with the proposal or components of the proposal;	1.4
	9. A brief explanation of the scope, structure and legislative basis of the EIS;	1.7, 1.9
	10. The specific EPBC Act and GBRMP Act matters affected by the proposal; and	1.9
	11. A description of government planning policies, statutory controls and agreements which will influence the proposal. All applicable jurisdictions and areas of responsible authorities within the area (both terrestrial and marine) must be listed and shown on maps at appropriate scales.	1.9
5.4	The Proposal description	
	This section must describe the proposal in sufficient detail to allow an understanding of all stages (including interdependencies between stages) and components of the proposal, and determine potential environmental impacts associated with the proposal. Those elements with potential implications for matters protected under Part 3 of the EPBC Act must be highlighted.	2, 3.4
	all decommissioning, construction and operational components of the proposal (short and long term) must be described in detail. This includes, but is not limited to, the date or time period over which construction will take place, details of the locations of each component of the proposal, exact dimensions of structures to be built and materials (including proposed colours and height of buildings above tree-lines), equipment and machinery to be used as well as construction access requirements, lay down areas and workforce accommodation arrangements. Details of proposed maintenance, monitoring and enforcement programs to help limit the impacts of the ongoing operations, such as dredging and increased boating activity in the area, on matters of National Environmental Significance, along with the resources available to support these programs, must also be addressed.	2, 3.4
	A discussion of the assumptions underlying the predicted operation of the proposal and associated changes in the activities undertaken in the surrounding environment, including use of supporting facilities such as maintenance and storage yards, must be provided.	2, 3.4
5.4.1	Project details	
	The description of the proposal must cover:	
	1. The environmental principles on which the development will be managed;	2.2
	2. All the components of the proposal including: (a) Site selection, based on an analysis of prudent and feasible alternative sites;	1.6, 2

Guidelines Section		Relevant EIS Section
	<ul style="list-style-type: none"> (b) Lease arrangements, including longevity, public access and pest management; (c) Site preparation, including decommissioning of existing infrastructure; (d) Development options, including an explanation of prudent and feasible alternatives; (e) Associated infrastructure, including transport networks/corridors (both land and marine); (f) Associated services including details of the total demand expected on mainland resources (for example electricity, water, waste disposal) during each phase of the development; (g) Construction; (h) Commissioning; (i) Operation, including details of the expected tourist and residential populations for each stage of the proposed development; and (j) Related maintenance activities, both long and short term. 	
	<p>3. The precise location of works to be undertaken (including specific footprint area(s)), structures to be built or other elements of the proposal that may have impacts on the environment. This must include elements on Great Keppel Island, the Keppel Group, the mainland and the marine environment which may be used to service the proposal. Aerial photographs, maps, figures and diagrams must be incorporated where appropriate.</p> <p>A general location map must be provided that illustrates the distances of the notional development areas and the locations of any areas which are consequential to the proposal, including 'upstream', 'downstream' and nearby areas likely to be affected by the proposal. The map must include the location of other known or potential future developments occurring on the islands in the Great Barrier Reef and the mainland along the Capricorn Coast.</p> <p>The following maps and figures must be provided in relation to the Great Barrier Reef Marine Park and Great Barrier Reef World Heritage Area:</p> <ul style="list-style-type: none"> • A detailed map showing the boundary of the Great Barrier Reef Marine Park, including the location of Mean Low Water around Great Keppel Island, in relation to proposed development footprints of the marina, dredging channel, submarine infrastructure and any other marine based developments (including GPS coordinates of the footprint boundaries and mean low water); • A detailed map showing the Great Barrier Reef Zoning adjacent to Great Keppel Island in relation to the proposed development areas; • A map showing the Great Barrier Reef Zoning of the Keppel Island group and adjacent coastline; • A map showing the location of the proposal in relation to the Great Barrier Reef World Heritage Area and 	2, 3.4

Guidelines Section		Relevant EIS Section
	<p>National Heritage place; and</p> <ul style="list-style-type: none"> • Simulated viewfields of the proposal showing its visual impact from the adjacent coastline, adjacent islands and the Great Barrier Reef World Heritage Area to the east. <p>Reference must be made to detailed technical information in appendices where relevant.</p>	
	<p>4. How the works are to be undertaken and design parameters for all aspects of the structures or elements of the proposal. This must include:</p> <ul style="list-style-type: none"> ○ An explanation of the anticipated timetable for the decommissioning of existing infrastructure, construction and operation; ○ Details of the decommissioning of existing infrastructure, construction and operational equipment to be used; ○ Details of the environmental parameters (incorporating predictions of climate change and 'worst case scenarios') the structures are designed to withstand; and ○ Number and source of staff, and training in relation to environmental management matters for staff involved in all phases of the project. 	2, 3
5.5	Matters of National Environmental Significance	
	<p>In relation to matters of National Environmental Significance listed as controlling provisions for the proposal an inventory of surveys, whether office-based or field-based, must be provided. These may be provided as appendices, but must at least be fully referenced and must be made publicly available unless SEWPAC is furnished with compelling reasons not to do so. Any anticipated future surveys to be conducted in relation to matters of National Environmental Significance, whether office-based or field-based, must also be discussed.</p>	3.4

Guidelines Section		Relevant EIS Section
	<p>Output from the protected matters search tool (accessible from SEWPAC's website) must be also included as an appendix. The results, indicating the presence of matters of National Environmental Significance, must also be provided. Any species or values considered likely or known to occur in areas impacted by the controlled action must be addressed. The description of matters of National Environmental Significance should focus on, but not be limited to the following controlling provisions:</p> <ol style="list-style-type: none"> a) World Heritage Properties (sections 12 & 15A); b) National Heritage Places (sections 15B & 15C); c) Great Barrier Reef Marine Park (sections 24B & 24C) d) Listed threatened species and ecological communities (sections 18 & 18A); e) Listed migratory species (sections 20 & 20A); and f) Commonwealth marine areas (sections 23 & 24A). 	3.4
5.6	Alternatives to the Proposal	
	<p>This section must describe, to the extent reasonably practicable, any prudent and feasible alternatives to the proposal. For each alternative listed the proponent should detail the project details, impacts (positive and negative), location, scale, configuration and staging options. This section must describe, but not be limited to the following:</p>	1.6
	1. The alternative of taking no action or not proceeding with components of the proposal;	1.6
	2. Potential alternative locations for different components of the proposal;	1.6
	3. Potential alternative configuration or scale options for key components of the proposal;	1.6
	4. A comparative description of the adverse and beneficial impacts of the development as a whole, each component of the development, and location on the matters protected by the controlling provisions for the proposal;	1.6
	5. A description of how each stage would be affected if one or more of the stages does not occur or is significantly modified;	1.6
	6. Sufficient detail must be provided to make clear why any alternative is preferred to another;	1.6
	7. The reasons for choosing the preferred location and option for the development as a whole, and each key component of the proposal, must be explained. The explanation must include a comparison of the adverse and beneficial effects used for selecting the preferred location and option, and compliance with the objectives of the EPBC Act and GBRMP Act (including the principles of ecologically sustainable development);	1.6
	8. The advantages and disadvantages of alternatives when considered against relevant matters protected under the EPBC Act and GBRMP Act, including critical issues identified in the Great Barrier Reef Outlook Report 2009, must be specifically addressed; and	1.6

Guidelines Section		Relevant EIS Section
	9. Short, medium and long-term advantages and disadvantages of the options must be considered.	1.6
5.7	Consultation	
	The proponent is required to consult with Traditional Owners (which must include Dharambul and Woppaburra) and stakeholders, with a particular focus on individuals/sectors that may be affected by the proposal, as part of the EIS process.	1.8, 4, 3.12
	Details of any consultation about the proposal must be provided. This is to include:	1.8, 4, 3.12
	1. Consultation that has already taken place including details on the frequency, forum and timeframes provided for consultation;	1.8, 4, 3.12
	2. Identification of Traditional Owners and stakeholder interests, including stakeholders likely to be affected by the proposal;	1.8, 4, 3.12
	3. Details of how Traditional Owners and stakeholders were able to provide feedback on the proposal;	1.8, 4, 3.12
	4. Details of issues discussed, including a description of the views of affected parties;	1.8, 4, 3.12
	5. Details on how Traditional Owner and stakeholder comments received during consultations have been addressed in the EIS; and	1.8, 4, 3.12
	6. Any further proposed consultation about potential impacts of the proposal.	1.8, 4, 3.12
5.8	The Existing Environment	
	This section must provide a description of the project area including baseline information on Great Keppel Island's terrestrial, coastal and marine environments, including hydrology, sediment flows, geography, flora and fauna, cultural and heritage values, and all relevant socio-economic considerations. This section must link to the proposal description, potential impacts, and proposed avoidance, mitigation and/or offset measures throughout the life of the project including decommissioning of existing infrastructure, pre-construction, construction and operation. This section is to also identify and reference any relevant (published and unpublished) studies undertaken in the area which will assist in describing patterns and trends in the environment.	Chapter 3
5.8.1	Bio-Physical Environment	
	This section must include the following elements of the environment related to the proposed development:	
	a) Describe climate and atmospheric characteristics (air quality, seasonal temperatures, humidity, wind, evaporation and annual and monthly rainfall) of Great Keppel Island and the Keppel Island Group including extreme climatic and atmospheric events that have occurred. Weather information must be sourced from as close to the proposed development location as possible.	3.1

Guidelines Section	Relevant EIS Section
b) Provide information and a detailed map displaying all current land and sea uses, and tenures on Great Keppel Island and nearby areas likely to be affected by the proposed development;	2.1, 3.2
c) Provide information and a detailed map displaying all geological features and soil types (including potential acid sulphate soils) on Great Keppel Island;	3.2
d) Provide information and a detailed map describing the existence, nature and extent of contaminated sites;	3.2
e) Provide qualitative and quantitative information on groundwater systems and a detailed map showing the location of ground water aquifers (both fresh and saltwater);	2.4, 3.5
f) Provide information on surface water systems and a detailed map showing the location of watercourses;	2.4, 3.5
g) Provide a description of biota/biotic habitats, including a map of marine/intertidal habitats (including information on seasonal fluctuations e.g. seagrass prevalence), likely to be affected by the proposed development;	3.3
h) Provide the results of surveys and relevant research and a detailed map displaying the location of any regional ecosystems listed under Queensland's Vegetation Management Act 1999, ecological communities listed as threatened under the EPBC Act, and the location of any flora species of national, regional and conservation significance;	3.3
<p>i) Include a summary of the location, size and breeding status of terrestrial and marine threatened and migratory species listed under the EPBC Act which are likely to occur in the area affected by the proposal.</p> <p>Information on listed threatened and migratory species, including foraging, roosting, resting and nesting habitats, must include but not be limited to:</p> <ul style="list-style-type: none"> i. The importance of habitat in a local, regional, national and international context; ii. The status of the population (e.g. abundance) in the area likely to be affected by the proposed development relative to other areas outside the area likely to be affected; iii. Local and regional representation; iv. Conservation and biodiversity values; v. Economic, social and cultural values of species; vi. The extent (in hectares) of any areas of important or unique habitat; and vii. Seasonality influences. 	3.3, 3.4
<p>j) Include a summary of the location and size of threatened ecological communities listed under the EPBC Act which are likely to occur in the area surrounding the proposal:</p> <p>Information on listed ecological communities must include but not be limited to:</p> <ul style="list-style-type: none"> i. The importance of habitat in a local, regional and national context; ii. Local and regional representation; iii. Conservation and biodiversity values; 	3.3, 3.4

Guidelines Section	Relevant EIS Section
<ul style="list-style-type: none"> iv. Economic, social and cultural values of species; and v. The extent (in hectares) of any areas of important or unique habitat. 	
<ul style="list-style-type: none"> k) Identify, describe and map environments important to the health of the Great Barrier Reef Marine Park, including terrestrial and intertidal habitats and Island watercourses, that are likely to be affected by the proposed development; 	3.3, 3.4
<ul style="list-style-type: none"> l) Identify, describe and map reef communities¹ and those species supported by coral reefs in areas likely to be affected by the proposed development, including information on species diversity and abundance; 	3.3, 3.4
<ul style="list-style-type: none"> m) Identify, describe and map seagrass communities in areas likely to be affected by the proposed development, including information on species diversity, seasonality and abundance; 	3.3, 3.4
<ul style="list-style-type: none"> n) Identify, describe and map soft sediment fauna communities (e.g. infauna, benthic invertebrates) in areas likely to be affected by the proposed development, including information on species diversity, seasonality and abundance; 	3.3, 3.4
<ul style="list-style-type: none"> o) Describe oceanographic conditions in the region, especially those which may have a bearing on the proposal. Include information on seasonal variation, waves, tides, currents, water salinity, clarity, temperature and depths. Discuss the frequency and severity of weather conditions such as storms and cyclones, for two, ten and 100 year conditions; 	3.1, 3.3, 3.4, 3.6
<ul style="list-style-type: none"> p) Provide a description of the coastal features of Great Keppel Island (for example, seabed, shoreline, beaches and rocky headlands) and describe coastal processes (for example erosion and deposition) that are occurring. This description must incorporate seasonality. Information must include, but not be limited to: <ul style="list-style-type: none"> i. The importance of coastal features in a local, regional and national context; ii. Local and regional representation; iii. Conservation and biodiversity values; iv. Socio-economic and cultural values of coastal features (refer 5.9.2 below); and v. The extent (in hectares) of any areas of important or unique habitat. 	3.1, 3.3, 3.4, 3.6
<ul style="list-style-type: none"> q) Provide a description of the biodiversity and biogeography of the receiving environment. Sensitive environments and species must be identified along with: <ul style="list-style-type: none"> i. Key ecological relationships and interdependencies (e.g. species aggregations, flora and fauna relationships etc) with particular attention to the receiving environment in the Great Barrier Reef Marine Park; and ii. A description of the relative importance of the sensitive species and/or environment and the role it plays in overall ecosystem functioning and the functional redundancy of that species and /or environment; 	3.1, 3.3, 3.4, 3.6
<ul style="list-style-type: none"> r) Identification of any existing or proposed reserves in or adjacent to the project and their status. Include the reserve characteristics, status, IUCN category, and values and relevant management strategies; 	3.1, 3.3, 3.4, 3.6
<ul style="list-style-type: none"> s) Identification of the World Heritage and National Heritage values expressed in the vicinity of the proposed development, including an evaluation of the contribution that the values expressed at this location make the overall 	3.3, 3.4, 3.6

¹ A reference to reef communities includes all Great Barrier Reef ecosystem components including corals, algae, mangroves, soft sediment habitats etc (as per the Great Barrier Reef Outlook Report 2009).

Guidelines Section		Relevant EIS Section
	<p>values for the Great Barrier Reef World Heritage Area and National Heritage place; and</p> <p>t) Identification of those aspects of the Commonwealth marine area potentially affected by the proposal, including but not limited to baseline data on listed threatened, migratory and marine species and any other species of conservation significance, including cetaceans.</p>	3.3, 3.4, 3.6
5.8.2	<p>Socio-Economic and Cultural Environment</p> <p>Discussion of the socio-economic and cultural environment must provide:</p> <p>a) Baseline demographic information of the Capricorn Coast communities (e.g. from Australian Bureau of Statistics, Queensland Office of Economic and Statistical Research, Bureau of Rural Sciences) and a detailed description of all stakeholders, together with key social, economic and cultural issues related to the proposal (from community and stakeholder perspectives);</p> <p>b) A description of all historical, current and projected types of use and users, including patterns and trends in use, of the notional development areas and Great Barrier Reef Marine Park zones of the Keppel Group. Include a discussion of scientific research, commercial and non-commercial tourism, commercial, traditional and recreational fishing activities as well as non-fishing recreational activities;</p> <p>c) A description of local, State and Australian government planning policies and statutory controls which will influence the project, surrounding areas of future, planned and current use. All applicable jurisdictions and areas of responsible authorities within the area must be listed and shown on maps at appropriate scales;</p> <p>d) A description of the Great Barrier Reef Marine Park zoning adjacent to Great Keppel Island and the Great Barrier Reef Marine Park zoning of the Keppel Island group and adjacent coastline and how the zoning affects use;</p> <p>e) A description of any places with known or anticipated heritage, social or cultural values (including any Traditional Use of Marine Resource Agreements), such that they have been recognised with listing or recording under relevant State or Commonwealth legislation or are anticipated to be listed under such legislation;</p> <p>f) Information on the location (past and present considering sea level rise) and importance of sites and features of cultural significance on Great Keppel Island and Keppel Group and in the surrounding marine environment, including anthropological and archaeological sites or features of significance to the Traditional Owners in of the area. A description of how these sites and features were identified must be provided;</p> <p>g) A description of the Native Title status of the area in relation to Great Keppel Island and Keppel Group and surrounding waters; and</p> <p>h) Information on historical and current visitation activities and numbers of tourists and residents on Great Keppel Island and Keppel Group, including patterns and trends in visitation use.</p>	<p>4.1, 4.2, 5.1</p> <p>1, 2.1, 2.2, 3.13</p> <p>1.9</p> <p>3.3</p> <p>3.12, 3.13</p> <p>3.12, 3.13</p> <p>3.12, 3.13</p> <p>5</p>
5.9	Impacts of the Proposed Development	

Guidelines Section		Relevant EIS Section
	<p>This section must provide clear linkages with the existing environmental values described in section 5.8 and safeguards, mitigation measures, monitoring and offsets described in section 5.10 and 5.11. This section must include:</p> <p>a) A description of all potential impacts of the proposal on the bio-physical, cultural, heritage and socio- economic environment;</p> <p>b) Map(s) of key components (i.e. footprint) of the proposal over Great Keppel island and surrounding waters;</p> <p>c) A description of the framework used to assess impacts, including risk assessment processes;</p> <p>d) A statement on whether any potential impacts are likely to be unknown, unpredictable or irreversible;</p> <p>e) Analysis of the significance of the potential impacts;</p> <p>f) Any technical data, any sources of authority, and other information used or needed to make a detailed assessment of the relevant potential impacts. Reliability of forecasts, modelling and predictions, confidence limits and margins of error must be indicated as appropriate; and</p> <p>g) A detailed assessment of the nature and extent of the potential short term and long term relevant impacts including: on World Heritage and National Heritage values of the Great Barrier Reef World Heritage Area; listed threatened species and ecological communities; listed migratory species; the Great Barrier Reef Marine Park; the Commonwealth Marine Area (under Part 3 of the EPBC Act); and on listed marine species (under part 13 of the EPBC Act).</p>	<p></p> <p>3</p> <p>3</p> <p>3</p> <p>3</p> <p>3</p> <p>3</p> <p>3</p>
5.9.1	General Impacts	
	<p>This section must include:</p> <p>a) Discussion of potential impacts to habitat, with particular focus on habitat for listed threatened species which are likely to be impacted during decommissioning of existing infrastructure, construction and operation;</p> <p>b) Discussion of potential impacts which may arise through the transportation, storage and use of dangerous goods (if any), fuels and chemicals, such as accidental spills;</p> <p>c) A description of the environmental risk associated with contaminated sites including exposure pathways available to substances and whether substances have migrated or are likely to migrate from the land.</p> <p>d) Discussion of potential impacts which may arise from the introduction of pest species on the terrestrial and marine environment;</p> <p>e) A risk assessment of changing climate patterns that may affect the proposal and surrounding environment and a description of the preferred and alternative adaptation strategies to be implemented;</p> <p>f) In discussing potential impacts, consider how the interaction of extreme environmental events (e.g. cyclones, coral bleaching, flood events) and any related cumulative impacts may impact on the proposal and the environment (both</p>	<p></p> <p>3</p> <p>3, 6</p> <p>3</p> <p>3.3</p> <p>3.1</p> <p>3.1</p>

Guidelines Section		Relevant EIS Section
	independently and cumulatively); and	
	g) Consideration of potential impacts throughout the life of the proposal – from decommissioning of existing infrastructure and construction through to, and including, operation.	3
5.9.2	Impacts to Listed Migratory Species, Threatened Species and Ecological Communities	
	The EIS must provide an assessment of all potential and likely impacts to listed migratory species, threatened species and ecological communities from the construction and on-going operation of the development, including but not limited to impacts on:	3.3, 3.4
	a) Marine turtles;	3.3, 3.4
	b) Cetaceans;	3.3, 3.4
	c) Dugongs;	3.3, 3.4
	d) Elasmobranchs;	3.3, 3.4
	e) Migratory birds, including shorebirds; and	3.3, 3.4
	f) Terrestrial flora and the ecological community Littoral Rainforest and Coastal Vine Thickets of Eastern Australia.	3.3, 3.4
5.9.3	Impacts to Listed Values of the Great Barrier Reef World Heritage Area	
	Provide an assessment of all potential and likely impacts to the World Heritage values of the Great Barrier Reef World Heritage Area that have been identified as being expressed in the vicinity of the proposal during decommissioning of existing infrastructure, construction and operation of the proposal. This assessment must include an analysis of the impact of the proposal on the expression of the values at this location and how this in turn impacts on the overall values of the Great Barrier Reef World Heritage Area.	3.3, 3.4
5.9.4	Impacts to Listed Values of the Great Barrier Reef National Heritage Place	
	Provide an assessment of all potential and likely impacts to the National Heritage values of the Great Barrier Reef National Heritage place that have been identified as being expressed in the vicinity of the proposal during decommissioning of existing infrastructure, construction and operation of the proposal. This assessment must include an analysis of the impact of the action on the expression of the values at this location and how this in turn impacts on the overall values of the Great Barrier Reef National Heritage place.	3.3, 3.4
5.9.5	Impacts to the Environment of the Great Barrier Reef Marine Park	
	Provide an assessment of all potential and likely impacts of the proposal during decommissioning of existing infrastructure, construction and operation on the environment of the Great Barrier Reef Marine Park, and specifically address matters outlined in sections 88Q and 88R of the GBRMP Regulations. The assessment must include, but not be limited to the following matters:	3.3, 3.4
	a) Downstream impacts of the proposed tourism development on Great Keppel Island on water quality, including:	3.3, 3.4, 3.5, 3.6

Guidelines Section		Relevant EIS Section
	<ul style="list-style-type: none"> i. alterations to sediment and storm water runoff, including increased sedimentation from vegetation disturbance/clearance/erosion, and its impact on downstream biodiversity and sensitive ecosystems, including the Marine Park; ii. potential impacts to water catchments and alterations to wetland functioning; and iii. potential impacts associated with the treatment and management of waste water and contaminated surface water runoff into the environment (e.g. from batching plants), and a discussion of the fate of the waste and what effect the discharge of the waste will have on the marine environment; 	
	b) Potential impacts to ground and surface water resulting from physical disturbance to hydrological regimes;	3.2, 3.5
	c) Assessment of sustainable limits of extraction from aquifers, recharge rates of each aquifer and how much water the proponent plans to extract from the aquifers (monthly and total annual extraction rates) for each phase of the development;	3.2, 3.5
	d) Direct impacts of the proposal (including marina construction/operation and installation of sub-sea utilities) on water quality, including salinity, turbidity, suspended sediments, colour, odour, dissolved oxygen, nutrient levels, concentrations of heavy metals, pH, hydrocarbon spills, and other relevant parameters or dissolved substances;	3.2, 3.3, 3.5, 3.5, 3.6
	e) Impacts of the proposal on the sea floor, coastline and water circulation, and the likely impacts of altered water circulation patterns or volumes on the environment;	3.6
	f) Impacts to the sea floor through anchoring and direct placement of material/infrastructure, sediment disturbance, as well as any impacts of decommissioning any infrastructure. The GBRMP zone of likely seabed disturbance must be identified;	3.3, 3.4, 3.6
	g) Impacts of the proposal on noise levels and vibration impacts, including impacts associated with construction activities (e.g. marina), increased aircraft and increased vessel movement from the proposed marina and development operations;	3.9
	h) Impacts of the proposal on air quality (any information on greenhouse gas emissions should be presented consistent with the Australian Government's standard National Carbon Accounting Toolbox);	3.7
	i) Impacts to marine flora and fauna species and biotic habitats, including sensitive environments such as coral reefs and seagrasses. The assessment must consider changes to species composition and abundance, community type and functionality, propagation of species and potential barriers to species' movement or gene flow;	3.3, 3.4
	j) Impacts to macrobenthic species, fish, sea snakes and larger marine fauna species (composition and population	3.3, 3.4

Guidelines Section		Relevant EIS Section
	densities) including changes to communities' breeding success, habitat, potential barriers or disturbances to migration or migratory patterns and other wildlife movements;	
	k) Impact of anticipated illumination on seabirds, marine turtles and other migratory species, including impacts on nesting and disorientation;	3.3, 3.4
	l) Impacts of increased visitor use on turtle nesting and hatchings on Great Keppel Island and the Keppel Group;	3.3, 3.4
	m) Impact on cetaceans, dugongs, and marine turtles from increased vessel movement from the proposed marina and the potential for boat strike;	3.3, 3.4
	n) Impacts of dredging activities (capital works and maintenance dredging) including information regarding: area and volume of material to be dredged; likely composition of dredge material; dredging methodology, including dredging plant to be used, duration and frequency of dredging programs, and location of spoil disposal site; extent and impact of plumes generated from dredging and spoil disposal; and impacts from changes to bathymetry and hydrology;	2.3, 3.3, 3.6
	o) Impacts of reclamation activities in the Marine Park including information regarding: area to be reclaimed, habitat types of area to be reclaimed, location of fill, type of fill, means of transport and positioning of fill;	3.3, 3.4
	p) A description of the Marine Parks zones that will be utilised as part of the proposal; the objectives of zones; an assessment of the consistency of the proposal with the objectives of relevant zones; and, the permissibility of proposed activities under the Great Barrier Reef Marine Park Zoning Plan 2003;	3.3, 3.4
	q) Impacts on the orderly and proper management of the Marine Park, including demand for increased management resources on Great Keppel Island, the Keppel Island Group and adjacent coastal areas;	3.3, 3.4
	r) Impacts of the proposal in the context of other conduct in waters adjacent to Great Keppel Island, the Keppel Island Group and adjacent coastal areas, including future use;	3.3, 3.4
	s) The effect of the proposed conduct on the public appreciation, understanding and enjoyment of the Marine Park;	3.3, 3.4
	t) Consistency of the proposal with GBRMP policies and guidelines for the management of the Marine Park;	3.3, 3.4

Guidelines Section		Relevant EIS Section
	<ul style="list-style-type: none"> u) Impacts of the proposal on the social, cultural and heritage values of Marine Park for each stage of the proposal including: <ul style="list-style-type: none"> i. Impacts on sites and features of cultural significance (both above and below mean low water), including anthropological and archaeological sites or features of significance to the Traditional Owners of the area; ii. Impacts on the Woppaburra Traditional Use of Marine Resources Agreement and the Woppaburra's aspirations for their land and sea country; iii. Implications of the proposal on Native Title status of the area; 	3.3, 3.4
	v) Impacts on current and projected commercial, recreational and scientific use of the Marine Park, including changes to visitation patterns on Great Keppel Island and in the Keppel Group;	5
	w) Impacts on heritage and social values of the Marine Park, including sites of historic or archaeological significance;	3.3, 3.4, 4
	x) Impacts on amenity (including from the mainland, air, vessels and surrounding Keppel Group); and	2.2
	y) A description of anticipated positive and negative social, cultural and/or economic impacts of the proposal on key stakeholder groups and individuals. This should include a consideration of anticipated changes in the social, cultural and heritage values of the Marine Park.	4, 5
5.9.6	Design Implications of the Marina on the Boundary of the GBRMP	
	Section 31 of the GBRMP Act 1975 details the Areas of the Marine Park. The proponent must consider and detail any implications of this proposal on the boundary of the Marine Park having regard to the requirements under Section 31 of the GBRMP Act (refer Attachment 4). Early scoping and design of the proposed marina should be discussed with the Great Barrier Reef Marine Park Authority.	3.3, 3.4, 2.2
5.9.7	Impacts to the Commonwealth Marine Environment	
	Provide an assessment and discussion of the potential direct, indirect and consequential impacts of the proposed development on the Commonwealth marine environment, including but not limited to:	
	a) Impacts resulting from an increase in vessel movement from the proposed marina, and the potential for boat strike on marine fauna in the Commonwealth marine area;	3.11
	b) Impacts on other users of the area; and	3.3, 3.4
	c) Potential risk of pest species becoming established in the Commonwealth marine area.	3.3, 3.4
5.9.8	Physical and Biodiversity Impacts Due to Proposed Development	

Guidelines Section		Relevant EIS Section
1.	Provide an assessment and discussion of how decommissioning of existing infrastructure, construction and operation of the proposed development will impact on the terrestrial, coastal and marine environments of Great Keppel Island. Information must include, but not be limited to:	3.3, 3.4, 3.6
a)	Likely impacts to the ecological integrity of wetland areas;	3.3, 3.4
b)	Likely impacts to the ecological integrity of ecosystems important to maintaining the health of Great Barrier Reef ecosystems;	3.3, 3.4
c)	Likely impacts to the groundwater systems and hydrological regime of drainage on Great Keppel Island;	3.3, 3.4, 3.5
d)	A discussion of how the construction and operation of the proposed development is likely to alter rates of erosion, sedimentation and deposition downstream; and	2.3.1.3
e)	Likely impacts to the coastal processes and coastal features of Great Keppel Island, the Keppel Group and surrounding habitats.	3.6
2.	Consider potential impacts to fauna and flora species and communities (composition and population densities);	3.3
3.	Consider potential impacts arising from the introduction and/or spread of exotic pest species; and	3.3
4.	Discussion of the reversibility of each component of the proposal, once constructed.	3.3
5.9.9	Cumulative Impacts of the Proposed Development	
	The EIS must 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 vicinity, including islands in the southern Great Barrier Reef and the mainland along the Capricorn Coast). The EIS must also address the potential cumulative impact of the proposal on ecosystem resilience. Where relevant to the potential impact, a risk assessment must be conducted and documented. The risk assessment must include known potential future expansions or developments by the proponent and other proponents and known impacts on ecosystem resilience. Information on cumulative impacts must include, but not be limited to:	
a)	Description of existing developments (including construction status) of a similar type and scale to the proposed development, or key components of the proposed development (e.g. marina), within the Central Queensland region, that have been approved within the last five years;	7
b)	Discussion of the range of developments which will be facilitated or impacted (either positively or negatively) by the proposal;	7
c)	Discussion of the developments and activities which are likely to be facilitated by the proposal;	7
d)	Discussion of known impacts on ecosystem resilience, including reference to issues identified in the Great Barrier Reef Outlook Report 2009;	7
e)	Discussion of any potential future changes to the development which are likely to change the nature or scale of	7

Guidelines Section		Relevant EIS Section
	environmental impacts; and	
	f) Discussion of the impacts of other tourism, residential, industrial and infrastructure projects both directly and indirectly related to the proposal in a regional context.	7
5.9.10	Consequential Impacts	
	Provide a detailed assessment of any likely impacts that this development may facilitate on the following:	
	a) The World Heritage values of the Great Barrier Reef World Heritage Area;	3.3, 3.4
	b) The National Heritage values of the Great Barrier Reef National Heritage place;	3.3, 3.4
	c) The environment of the Great Barrier Reef Marine Park;	3.3, 3.4
	d) Listed threatened species and ecological communities;	3.3, 3.4
	e) Listed migratory species; and	3.3, 3.4
	f) The Commonwealth marine environment.	3.3, 3.4
5.10	Safeguards, Mitigation Measures and Monitoring, Offsets	
5.10.1	Mitigation Measures	
	The EIS is to outline the proposed safeguards and mitigation measures to be put in place for every phase of the proposal to deal with relevant potential impacts of the development. This section must:	3
	a) Identify the level of risk associated with potential impacts identified in section 5.9 and those that require mitigation, monitoring or management to avoid or reduce impacts to an acceptable level;	3
	b) Provide a consolidated list of mitigation measures proposed to be undertaken to remediate, avoid, minimise or manage the relevant potential impacts of the proposed development as identified in section 5.9, including any management measures proposed to be taken by Commonwealth, State or local governments. Mitigation measures described should cover design, decommissioning of existing infrastructure (including remediating contaminated sites), construction and operational phases (including transportation to and from the island) of the proposed development;	3
	c) Describe and assess the expected or predicted effectiveness of, the proposed mitigation, monitoring, management measures and performance measures to monitor and evaluate effectiveness over time;	3
	d) Describe the statutory or policy basis for the monitoring and mitigation measures; and	3
	e) Name of the agency responsible for endorsing or approving each mitigation, monitoring and management measure.	3
	Particular focus must be given to:	3
	a) Determining factors in the planning of the proposal so as to avoid damage to the environment;	3
	b) Measures to avoid or minimise damage to estuarine environments;	3
	c) Measures to avoid or minimise damage to the World Heritage values of the Great Barrier Reef World Heritage Area;	3
	d) Measures to avoid or minimise damage to the National Heritage Values of the Great Barrier Reef National Heritage	3

Guidelines Section		Relevant EIS Section
	place;	
	e) Measures to avoid or minimise damage to the environment of the Great Barrier Reef Marine Park	3
	f) Measures to avoid or minimise disturbance to fauna and flora found around and within the proposal area (particularly listed threatened species and listed migratory species); and	3
	g) Staff training, including training in relation to environmental issues.	3
	The EIS must describe the proponent's capacity to satisfactorily develop and manage the project including the capacity to remove, clean up, rehabilitate and/or take preventative action for the entire proposal.	3
	The EIS must identify the cost to remove infrastructure and restore the environment, and to salvage lost or damaged facilities should the development fail or the proponent becomes insolvent.	3
	The proponent must provide at least two independent salvage quotes for the removal of infrastructure and remediation of the environment covering each component/phase of development within the Marine Park.	3
5.10.2	Offsets	
	Environmental offsets are broadly understood to mean actions taken outside a development site that compensate for the impacts of that development - including direct, indirect or consequential impacts.	3, Appendix P
	Environmental offsets provide an opportunity to achieve long-term conservation outcomes whilst providing flexibility for proponents seeking to undertake development which will have environmental impacts.	3, Appendix P
	Offsets are not intended to replace avoidance and mitigation which are expected to be the primary strategies for managing the potential impacts of development proposals. Environmental offsets must be related to the matter protected.	3, Appendix P
	This section of the EIS must outline plans to offset the potential impacts of the proposal. Environmental offsets may be appropriate when they:	3, Appendix P
	a) Are necessary to protect or repair impacts to a protected matter – i.e. a matter of national environmental significance or the environment more broadly;	3, Appendix P
	b) Relate specifically to the matter (for example, species) being impacted; and	3, Appendix P
	c) Seek to ensure that the health, diversity and productivity of the environment are maintained or enhanced	3, Appendix P
5.11	Monitoring and Reporting	
	Appropriate baseline data requirements are to be identified as part of the EIS to form the basis for baseline measurement and ongoing monitoring of environmental parameters.	3, 8
	It must be demonstrated that the proposed methods for baseline measurements and subsequent monitoring are scientifically robust and statistically sound to enable diligent and systematic data collection that will deliver unbiased and sound responses to EIS Guideline requirements.	3, 8
	This section must identify parameters to be monitored, performance indicators to evaluate accuracy of predicted impacts and effectiveness of mitigation measures, and management response trigger values and response activities.	3, 8
	This section is to also identify and describe monitoring programs, procedural and compliance audit programs and reporting	3, 8

Guidelines Section		Relevant EIS Section
	requirements and arrangements which will demonstrate the effectiveness of management and monitoring (linked to environmental management systems (EMS)/environmental management plan (EMP) procedures – see below).	
	The proponent must, in addition to outlining proposed programs, clearly identify what is to be monitored and why.	3, 8
	Monitoring programs must be designed to provide objective evidence regarding activities associated with the proposal and if these activities are adversely impacting on the environment in the short, medium and long term.	3, 8
	Monitoring programs must demonstrate an understanding and consideration of:	3, 8
	a) Ecosystems and habitats, flora and fauna (particularly listed threatened species/ecological communities and listed migratory species), and water quality issues affected by the proposed development;	3, 8
	b) Measuring the effectiveness of mitigation and/or rehabilitation measures;	3, 8
	c) Documenting the difference between predicted and actual impacts;	3, 8
	d) Methods for identification of non-predicted impacts and appropriate reporting and remedial measures;	3, 8
	e) Application and effectiveness of emergency and contingency plans; and	3, 8
	f) Review of consultation and management arrangements with regulatory authorities and the community.	3, 8
	A diagram showing monitoring and reporting arrangements must be included in the EIS.	3, 8
5.12	Environmental Management System	
	The EIS must describe the environmental management system (EMS) that will be applied to the areas affected by the proposed development.	8
	An outline of the EMS must be provided covering the following key elements:	8
	a) Consultation arrangements;	
	b) Relevant legislation and standards adopted;	
	c) Safeguards, mitigation and management practices to be implemented;	
	d) Performance indicators and management responses;	
	e) Monitoring programs;	
	f) Audit protocols;	
	g) Reporting arrangements;	
	h) Feedback of monitoring results into project management; and	
	i) Contingency plans and emergency response.	
	Reference must also be made to Environmental Management Plans (EMPs), where appropriate, to manage impacts on the World and National Heritage values of the Great Barrier Reef, listed threatened species and communities and listed migratory species	8
	Details of requirements for the preparation of EMPs under other relevant legislation must also be provided.	8
	In an effort to minimise duplication, areas of consistency between separate requirements must also be highlighted.	8

Guidelines Section		Relevant EIS Section
	A diagram showing the EMS framework and above key elements, together with its relationship to specific EMP's must be provided in the EIS.	8
5.13	Other Approvals and Conditions	
	The EIS is to include information on other approvals to be obtained and their associated conditions. This must include the following:	1.9
	a) A description of any approval that has been obtained from a State, or Commonwealth agency or authority (other than an approval under the EPBC Act and GBRMP Act), including any conditions that apply to the proposal;	1.9
	b) A statement identifying any additional approval that is required;	1.9
	c) A description of the monitoring, enforcement and review procedures that apply, or are proposed to apply, to the development;	1.9
	d) Details of any local or State government planning scheme, or plan or policy under any local or State government planning system (including licensing and permitting requirements) that deals with the proposed development, including: <ul style="list-style-type: none"> i. What environmental assessment of the proposed development has been, or is being, carried out under the scheme, plan or policy; and ii. How the scheme provides for the prevention, minimisation and management of any relevant potential impacts. 	1.9
	e) A description of any international Convention to which Australia is a signatory, or any agreement between the Commonwealth and the State, that is relevant to the proposed development.	1.9
5.14	Environmental Record	
	The EIS must include the environmental record of the proponent. This must include:	1.1
	(a) Reference to the GBRMP Regulations 88R(j) which includes the applicant's history in relation to environmental matters (for example compliance with Marine Park permits and environmental management plans) and any outstanding charges; and	1.1
	(b) 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 the person proposing to take the action. If the person proposing to take the action is a corporation, details of the corporation's environmental policy and planning framework must be provided.	1.1
	Information relating to the persons' environmental record must also include any accreditations (for example ISO 14001), environmental awards, and other recognition for environmental performance.	1.1
5.15	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 and the GBRMP Act including the principles of ESD (see	9

Guidelines Section		Relevant EIS Section
	Attachment 3).	
	Reasons justifying undertaking the proposal in the manner proposed must also be outlined.	9
	The conclusion must highlight measures proposed or required to avoid, mitigate or offset any unavoidable impacts on the environment.	9
5.16	Information Sources	
	Information sources used in the formulation of the EIS are to be provided.	3
	This section will describe consultations and studies undertaken in the course of proposal formulation and preparation of the draft EIS, and sources of information and technical data. The following details must be provided for information used in developing the EIS:	3
	a) The source of the information;	3
	b) How recent the information is;	3
	c) How the reliability of the information was tested; and	3
	d) What uncertainties (if any) are in the information;	3
	A copy of all data and the sampling methodologies must be made available to the SEWPAC and GBRMPA for the purpose of peer review on receipt of a written request from the SEWPAC or GBRMPA.	3
	Any further or ongoing consultations or studies must be outlined here.	3
5.17	Reference List and Bibliography	
	The reference list and bibliography provided in the EIS is to be accurate and concise and include the address of any internet pages used as data sources.	10
5.18	Appendices and Glossary	
	Detailed technical information studies or investigations necessary to support the main text of the EIS, 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.	
	A copy of the Guidelines must also be included.	
	A glossary defining technical terms and abbreviations used in the text must be included to assist the general reader.	
5.19	Additional 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. 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.	4, 5

Guidelines Section		Relevant EIS Section
	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.	4, 5

