



## Referral of a Proposal to the Environmental Protection Authority under Section 38 of the *Environmental Protection Act 1986*.

### PURPOSE OF THIS FORM

Section 38 of the *Environmental Protection Act 1986* (EP Act) makes provision for the referral to the Environmental Protection Authority (EPA) of a proposal (significant proposals, strategic proposals and proposals under an assessed scheme) by a proponent, a decision making authority (DMA), or any other person.

The purpose of this form is to ensure that EPA has sufficient information about a proposal to make a decision about the nature of the proposal and whether or not the proposal should be assessed under Part IV of the EP Act. Information provided in the referral form must be brief (no more than 30 pages), sharp and succinct to achieve the purposes of this form.

This form does not prevent the referrer from providing a supplementary referral report. Should a referrer choose to submit a supplementary referral report please ensure the following.

- i. Information is short, sharp and succinct.
- ii. Attachments are below eight megabytes (8 MB) as they will be published on the EPA's website (exemptions apply) for public comment. To minimise file size, "flatten" maps and optimise pdf files.
- iii. Cross-references are provided in the referral form to the appropriate section/s in the supplementary referral report.

This form is to be used for all proposals<sup>1</sup> which can be referred to the EPA under section 38 of the EP Act; i.e. referrals from: **proponents** of proposals (significant proposals, strategic proposals, derived proposals, proposals under an assessed scheme); **DMAs** (significant proposals); and **third parties** (significant proposals).

This form is divided into several sections, including; Referral requirements and Declaration; Part A - Information of the proposal and proponent; and Part B Environmental Factors. Guidance on successfully completing this form is provided throughout the form and is also available in the EPA's *Environmental Assessment Guideline for Referral of a Proposal under s38 of the EP Act* (EAG 16).

#### Send completed forms to

Office of the Environmental Protection Authority  
Locked Bag 10, East Perth WA 6892

or

Email: [Registrar@epa.wa.gov.au](mailto:Registrar@epa.wa.gov.au)

#### Enquiries

Office of the Environmental Protection Authority  
Locked Bag 10, East Perth WA 6892

Telephone: 6145 0800

Fax: 6145 0895

Email: [info@epa.wa.gov.au](mailto:info@epa.wa.gov.au)

Website: [www.epa.wa.gov.au](http://www.epa.wa.gov.au)

<sup>1</sup> Please note that this form consolidates and replaces the following forms: *Referral of a Proposal by the Proponent to the EPA under section 38(1) of the EP Act*, *Referral of a Proposal by a third party to the EPA under section 38(1) of the EP Act*, and *Referral of a development proposal to the EPA by the decision making authority*.

## Referral requirements and Declaration

The following section outlines the referral information required from a proponent, decision making authority and third party.

### (a) Proponents

Proponents are expected to complete all sections of the form and provide GIS spatial data to enable the EPA to consider the referral. Spatial GIS data is necessary to inform the EPA's decision.

The EPA expects that a proponent will address Part B of the form as thoroughly as possible to demonstrate whether or not the EPA's objectives for environmental factors can be met.

If insufficient information is provided the EPA will request more information and processing of the referral will commence once the information is provided or the EPA decides to make a precautionary determination on the available information.

Proponent to complete before submitting form	
Completed all the questions in Part A (essential)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Completed all the questions in Part B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Completed all other applicable questions	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Included Attachment 1 – any additional document(s) the proponent wishes to provide	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Included Attachment 2 – confidential information (if applicable)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Enclosed an electronic copy of all referral information, including spatial data and contextual mapping but clearly separating any confidential information	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Completed the Declaration	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
What is the type of proposal being referred? <i>* a referred proposal seeking to be declared a derived proposal</i>	<input type="checkbox"/> significant <input checked="" type="checkbox"/> strategic <input type="checkbox"/> derived* <input type="checkbox"/> under an assessed scheme
Do you consider the proposal requires formal environmental impact assessment?	<input type="checkbox"/> Yes <input type="checkbox"/> No
If yes, what level of assessment? <i>API = Assessment of Proponent Information</i> <i>PER = Public Environmental Review</i>	<input type="checkbox"/> API Category A <input type="checkbox"/> API Category B <input type="checkbox"/> PER


**NB:** The EPA may apply an Assessment on Proponent Information (API) level of assessment when the proponent has provided sufficient information about:

- the proposal;
- the proposed environmental impacts;
- the proposed management of the environmental impacts; and
- when the proposal is consistent with API criteria outlined in the [Environmental Impact Assessment \(Part IV Division 1 and 2\) Administrative Procedures 2012](#).

If an API A formal level of assessment is considered appropriate, please refer to Environmental Assessment Guideline No. 14 *Preparation for an Assessment on Proponent Information (Category A) Environmental Review Document EAG 14 (EAG14)*.

## Declaration

I, Ashley Clements declare that I am authorised on behalf South West Development Commission (being the person responsible for the proposal) to submit this form and further declare that the information contained in this form is true and not misleading.

Signature		Name (print) Ashley Clements		
Position	Strategic Manager Infrastructure	Organisation	South West Development Commission	
Email	ashley.clements@swdc.wa.gov.au			
Address	9 <sup>th</sup> Floor Bunbury Tower	61 Victoria Street		
	Bunbury	WA	6230	
Date	24 March 2015			

## (b) Decision-making authority

The EPA expects decision-making authorities to complete applicable sections of Part A of the form and provide the proponent an opportunity to provide additional information in Part B of the form where appropriate.

Wherever possible the DMA should obtain relevant spatial information from the proponent and provide this to the EPA with the referral.

DMA to complete before submitting form	
Completed all the questions in Part A (essential)	<input type="checkbox"/> Yes <input type="checkbox"/> No
Provided Part B to the proponent for completion	<input type="checkbox"/> Yes <input type="checkbox"/> No
Completed all other applicable questions	<input type="checkbox"/> Yes <input type="checkbox"/> No
Included Attachment 1 – any supporting information	<input type="checkbox"/> Yes <input type="checkbox"/> No
Enclosed an electronic copy of all referral information, including spatial data and contextual mapping	<input type="checkbox"/> Yes <input type="checkbox"/> No
Completed the below Declaration	<input type="checkbox"/> Yes <input type="checkbox"/> No
Do you consider the proposal requires formal environmental impact assessment?	<input type="checkbox"/> Yes <input type="checkbox"/> No
What is the type of proposal being referred?	<input type="checkbox"/> significant proposal <input type="checkbox"/> significant proposal under an assessed scheme

## Declaration

I, ....., (*full name*) submit this referral to the EPA for consideration of the environmental significance of its impacts.

Signature		Name (print)	
Position		Organisation	
Email			
Address	Street No.	Street Name	
	Suburb	State	Postcode
Date			

### (c) Third Party

Third parties are asked to have consideration for the Significance Test outlined in Part A Section 1.5 of this form before referring a significant proposal to the EPA. The EPA will only consider proposals that are likely, if implemented, to have a significant effect on the environment.

Third parties are to provide sufficient information to clearly identify the significant proposal, the proponent, and their reasons for referring the proposal. This can be done by completing as much of Part A of the form as possible, taking into consideration the information available. Third parties may wish to fill in Part B of the form to advance their own views of the significance of the environmental impacts and the need for EPA assessment.

In most cases the EPA will seek additional information from the proponent. This will be to confirm or amend the identity of the proponent, the proposal, and to allow the proponent opportunity to provide its views on the significance of the environmental impacts and the need for EPA assessment.

Third Party to complete before submitting form	
Complete all applicable questions in Part A and B	<input type="checkbox"/> Yes <input type="checkbox"/> No
Completed the Declaration	<input type="checkbox"/> Yes <input type="checkbox"/> No
Do you consider the proposal requires formal environmental impact assessment?	<input type="checkbox"/> Yes <input type="checkbox"/> No

### Declaration

I, ....., (*full name*) submit this referral to the EPA for consideration of the environmental significance of its impacts.

Signature		Name (print)	
Email			
Position		Organisation	
Address	Street No.	Street Name	
	Suburb	State	Postcode
Date			

## PART A: Information on the proposal and the proponent

All fields of Part A must be completed by the proponent and/or decision-making authority for this document to be processed as a referral. Third party referrers are only expected to fill in the fields they have information for.

### 1 PROPONENT AND PROPOSAL DESCRIPTION

#### 1.1 The proponent of the proposal

Proponent and/or DMA to complete	
Name of the proponent	South West Development Commission
Joint Venture parties (if applicable)	
Australian Company Number(s) (if applicable)	
Postal Address <i>(Where the proponent is a corporation or an association of persons, whether incorporated or not, the postal address is that of the principal place of business or of the principal office in the State)</i>	South West Development Commission PO Box 2000 Bunbury Western Australia 6231
Key proponent contact for the proposal  <i>Please include: name; physical address; phone; and email.</i>	Ashley Clements Strategic Manager Infrastructure South West Development Commission  <b>A:</b> 9th Floor Bunbury Tower 61 Victoria Street BUNBURY WA 6230 <b>P:</b> 08 9792 2000 <b>E:</b> ashley.clements@swdc.wa.gov.au
Consultant for the proposal (if applicable)  <i>Please include: name; physical address; phone; and email.</i>	Steve Rolls Business Director – Environment RPS  <b>A:</b> Level 2, 38 Station Street SUBIACO WA 6008 <b>P:</b> 9211 1111 <b>E:</b> steve.rolls@rpsgroup.com.au

#### 1.2 Proposal

Proposal is defined under the EP Act to mean a “project, plan, programme policy, operation, undertaking or development or change of land use, or amendment of any of the foregoing, but does not include scheme”. Before completing this section please refer to [Environmental Protection Bulletin 17 – Strategic and derived proposals \(EPB 17\)](#) and [Environmental Assessment Guideline for Defining the Key Characteristics of a proposal \(EAG 1\)](#).

Proponent and/or DMA to complete	
Title of the proposal	Koombana Bay Marine Structures
What project phase is the proposal at?	<b>X Scoping</b> <input type="checkbox"/> Feasibility <input type="checkbox"/> Detailed design <input type="checkbox"/> Other _____
Proposal type	<input type="checkbox"/> <b>Power/Energy Generation</b>

Proponent and/or DMA to complete	
<p><i>More than one proposal type can be identified, however for filtering purposes it is recommended that only the primary proposal type is identified.</i></p>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Hydrocarbon Based – coal</li> <li><input type="checkbox"/> Hydrocarbon Based – gas</li> <li><input type="checkbox"/> Waste to energy</li> <li><input type="checkbox"/> Renewable – wind</li> <li><input type="checkbox"/> Renewable – wave</li> <li><input type="checkbox"/> Renewable – solar</li> <li><input type="checkbox"/> Renewable – geothermal</li>   <li><input type="checkbox"/> <b>Mineral / Resource Extraction</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Exploration – seismic</li> <li><input type="checkbox"/> Exploration – geotechnical</li> <li><input type="checkbox"/> Development</li> </ul> </li>   <li><input type="checkbox"/> <b>Oil and Gas Development</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Exploration</li> <li><input type="checkbox"/> Onshore – seismic</li> <li><input type="checkbox"/> Onshore – geotechnical</li> <li><input type="checkbox"/> Onshore – development</li> <li><input type="checkbox"/> Offshore – seismic</li> <li><input type="checkbox"/> Offshore – geotechnical</li> <li><input type="checkbox"/> Offshore – development</li> </ul> </li>   <li><input type="checkbox"/> <b>Industrial Development</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Processing</li> <li><input type="checkbox"/> Manufacturing</li> <li><input type="checkbox"/> Beneficiation</li> </ul> </li>   <li><input type="checkbox"/> <b>Land Use and Development</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Residential – subdivision</li> <li><input type="checkbox"/> Residential – development</li> <li><input type="checkbox"/> Commercial – subdivision</li> <li><input type="checkbox"/> Commercial – development</li> <li><input type="checkbox"/> Industrial – subdivision</li> <li><input type="checkbox"/> Industrial – development</li> <li><input type="checkbox"/> Agricultural – subdivision</li> <li><input type="checkbox"/> Agricultural – development</li> <li><input type="checkbox"/> Tourism</li> </ul> </li>   <li><input type="checkbox"/> <b>Linear Infrastructure</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Rail</li> <li><input type="checkbox"/> Road</li> <li><input type="checkbox"/> Power Transmission</li> <li><input type="checkbox"/> Water Distribution</li> <li><input type="checkbox"/> Gas Distribution</li> <li><input type="checkbox"/> Pipelines</li> </ul> </li>   <li><input type="checkbox"/> <b>Water Resource Development</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Desalination</li> <li><input type="checkbox"/> Surface or Groundwater</li> <li><input type="checkbox"/> Drainage</li> <li><input type="checkbox"/> Pipelines</li> </ul> </li> </ul>

Proponent and/or DMA to complete	
	<input type="checkbox"/> Managed Aquifer Recharge <b>X Marine Developments</b> <input type="checkbox"/> Port <b>X Jetties</b> <b>X Marina</b> <input type="checkbox"/> Canal <input type="checkbox"/> Aquaculture <b>X Dredging</b> <i>If other, please state below:</i> <input type="checkbox"/> Other _____
Proponent and/or DMA to complete	
Description of the proposal – describe the key characteristics of the proposal in accordance with <a href="#">EAG 1</a> .	Proposal involves the extension of existing marine structures in Koombana Bay, Bunbury, to meet existing demand and future requirements for small craft maritime infrastructure. The three proposed future marine structures include new mooring facilities for commercial and recreational vessels; floating jetties; a boat servicing facility; improved public ablution facilities; and an upgraded boat launching and storage facilities.
Casuarina Harbour Development	
<b>Area to be Dredged</b>	To be determined, but it estimated approximately 20, 000 m2 of sediment may need to be removed to realign the boating channel
<b>Internal Jetties</b>	Approximately 10–13 new floating jetties
<b>Boat Pens</b>	Approximately 400 new boating pens
<b>Area of Potential Reclamation</b>	Approximately 30,000 m2 of coastal / marine environment is proposed for land reclamation
<b>Area of Potential Terrestrial Disturbance from Construction</b>	Approximately 96,000 m2 of existing port development is proposed for redevelopment
<b>Breakwater Footprint</b>	Approximately 13,600 m2
Koombana Sailing Club Marina	
<b>Area to be Dredged</b>	To be informed by the outcomes of future investigations
<b>Internal Jetties</b>	4–6 new floating jetties
<b>Boat Pens</b>	To be advised.
<b>Area of Potential Reclamation</b>	Approximately 24,200 m <sup>2</sup>
<b>Rock Groyne Footprint and Extension</b>	Approximately 15,100 m <sup>2</sup> , Approximately 360 m into the marine environment
Timeframe in which the proposal is to occur (including start and finish dates where applicable).	Construction is anticipated to commence in 2019



<b>Proponent and/or DMA to complete</b>	
Details of any staging of the proposal.	Staging of future derived proposals has not been decided upon.
What is the current land use on the property, and the extent (area in hectares) of the property?	Refer Table A and Figure 1 in the Environmental Referral Document.
Have pre-referral discussions taken place with the OEPA?  If yes, please provide the case number. If a case number was not provided, please state the date of the meeting and names of attendees.	September 23 <sup>rd</sup> 2014, 14 <sup>th</sup> November 2014 and 16 <sup>th</sup> February 2015
<b>DMA (Responsible Authority) to complete</b>	
For a proposal under an assessed scheme (as defined in <a href="#">section 3 of the EP Act</a> , applicable only to the proponent and DMA) provide details (in an attachment) as to whether: <ul style="list-style-type: none"> <li><i>The environmental issues raised by the proposal were assessed in any assessment of the assessed scheme.</i></li> <li><i>The proposal complies with the assessed scheme and any environmental conditions in the assessed scheme.</i></li> </ul>	

### 1.3 Strategic / derived proposals

*Complete this section if the proposal being referred is a strategic proposal or you are seeking the proposal to be declared a derived proposal. Note: Only a proponent may refer a strategic proposal and seek a proposal to be declared a derived proposal.*

<b>Proponent to complete</b>	
Is this referred proposal a strategic proposal?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Are you seeking that this proposal be declared a derived proposal?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If you are seeking that this proposal be declared a derived proposal, what is the Ministerial Statement number (MS #) of the associated strategic proposal?	MS #: _____

## 1.4 Location

Proponents and DMAs must provide spatial data. Please refer to [EAG 1](#) for more detail.

Proponent, DMA and Third Party to complete	
Name of the Local Government Authority in which the proposal is located.	City of Bunbury
Location: a) street address; lot number; suburb; and nearest road intersection; or b) if remote the nearest town; and distance and direction from that town to the proposal site.	Koombana Bay marine environment
Have maps and figures been included with the referral (consistent with <a href="#">EAG 1</a> where appropriate)? <i>The types of maps and figures which need to be provided (depending on the nature of the proposal) include:</i> <ul style="list-style-type: none"> <li>maps showing the regional location and context of the proposal; and</li> <li>figures illustrating the proposal elements.</li> </ul>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Refer to Figures 1 and 2 in the Environmental Referral Document
Proponent and DMA to complete	
Have electronic copies of spatial data been included with the referral? <b>NB:</b> <i>Electronic spatial (GIS or CAD) data, geo-referenced and conforming to the following parameters:</i> <ul style="list-style-type: none"> <li>GIS: polygons representing all activities and named;</li> <li>CAD: simple closed polygons representing all activities and named;</li> <li>datum: GDA94;</li> <li>projection: Geographic (latitude/longitude) or Map Grid of Australia (MGA);</li> <li>format: ESRI geodatabase or shapefile, MapInfo Interchange Format, Microstation or AutoCAD..</li> </ul>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Refer to information provided on disc

## 1.5 Significance test and environmental factors

Proponent, DMA and Third Party to complete	
What are the likely significant environmental factors for this proposal?	<input checked="" type="checkbox"/> Benthic Communities and Habitat <input checked="" type="checkbox"/> Coastal Processes <input checked="" type="checkbox"/> Marine Environmental Quality <input checked="" type="checkbox"/> Marine Fauna <input type="checkbox"/> Flora and Vegetation <input type="checkbox"/> Landforms <input type="checkbox"/> Subterranean Fauna <input type="checkbox"/> Terrestrial Environmental Quality <input type="checkbox"/> Terrestrial Fauna <input type="checkbox"/> Hydrological Processes

Proponent, DMA and Third Party to complete	
	<input type="checkbox"/> Inland Waters Environmental Quality <input type="checkbox"/> Air Quality & Atmospheric Gases <input type="checkbox"/> Amenity <input type="checkbox"/> Heritage <input type="checkbox"/> Human Health <input type="checkbox"/> Offsets <input type="checkbox"/> Rehabilitation and Decommissioning
Having regard to the Significance Test (refer to Section 7 of the <i>EIA Administrative Procedures 2012</i> ) in what ways do you consider the proposal may have a significant effect on the environment and warrant referral to the EPA?	The likely key engineering works that will be required to facilitate construction of the proposal, include dredging of a boating channel; construction of rock groynes revetment walling and floating jetties; and reclamation works, will impact sea-themed environmental factors.

### 1.6 Confidential information

*All information will be made publically available unless authorised for exemption under the EP Act or subject to the Freedom of Information Act 1992.*

Proponent to complete	
Does the proponent request that the EPA treat any part of the referral information as confidential?  <i>Ensure all confidential information is provided in a separate attachment in hard copy.</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

## 2 REGULATORY CONSIDERATIONS

*This section applies to the Local, State and Commonwealth regulatory considerations for the referred proposal.*

### 2.1 Government approvals

#### 2.1.1 State or Local Government approvals

DMA to complete	
What approval(s) is (are) required from you as a decision-making authority?	
Is rezoning of any land required before the proposal can be implemented? If yes, please provide details.	<input type="checkbox"/> Yes <input type="checkbox"/> No

## 2.1.2 Regulation of aspects of the proposal

Complete the following to the extent possible.

Proponent to complete	
<p>Do you have legal access required for the implementation of all aspects of the proposal?</p> <p><i>If yes, provide details of legal access authorisations / agreements / tenure.</i></p> <p><i>If no, what authorisations / agreements / tenure is required and from whom?</i></p>	<p style="text-align: center;"><input checked="" type="checkbox"/> Yes    <input type="checkbox"/> No</p> <p>South West Development Commission is a statutory authority responsible for implementing a variety of key infrastructure projects in the south west. The Koombana Bay Marine Structure proposal has the cooperation and support of the Department of Transport, Port of Bunbury and the Koombana Bay Sailing Club</p>

Outline both the existing approvals and approvals that will be / are being sought as a part of this proposal.

Proponent to complete			
Aspects* of the proposal	Type of approval	Legislation regulating this activity	Which State agency /entity regulate this activity?
To be determined following further investigations as part of the future EIA process.			

\*e.g. mining, processing, dredging

## 2.1.3 Commonwealth Government Environment Protection and Biodiversity Conservation Act 1999 approvals

Refer to the [assessment bilateral agreement](#) between the Commonwealth of Australia and the State of Western Australia for assistance on this section.

Proponent to complete	
<p>1. Does the proposal involve an action that may be or is a controlled action under the <i>Environment Protection and Biodiversity Conservation Act 1999</i> (EPBC Act)?</p>	<p style="text-align: center;"><input type="checkbox"/> Yes    <input checked="" type="checkbox"/> No</p> <p style="text-align: center;"><i>If no continue to Part A section 2.3.4.</i></p>
<p>2. What is the status of the decision on whether or not the action is a controlled action?</p>	<p><input type="checkbox"/> Proposal not yet referred</p> <p><input type="checkbox"/> Proposal referred, awaiting decision</p> <p><input type="checkbox"/> Assessed – controlled action</p> <p><input type="checkbox"/> Assessed – not a controlled</p>

Proponent to complete	
	action
3. If the action has been referred, when was it referred and what is the reference number (Ref #)?	Date: _____ Ref #: _____
4. If the action has been assessed, provide the decision in an attachment. Has an attachment been provided?	<input type="checkbox"/> Yes <input type="checkbox"/> No
5. Do you request this proposal to be assessed under the bilateral agreement?	<input type="checkbox"/> Yes <input type="checkbox"/> No

Complete the following to the extent possible for the Public Comment of EPBC Act referral documentation.

Proponent to complete	
6. Have you invited the public to comment on your referral documentation?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  Concept Plan developed by the Bunbury Marine Facilities Steering Committee for the Koombana Bay Waterfront included the marine structures subject to this proposal. The Bunbury community has been engaged and informed on the proposed Koombana bay marine structures e.g. proposed amendments to Casuarina Harbour and the Koombana Bay Sailing Club
7. How was the invitation published?	<input type="checkbox"/> newspaper <input type="checkbox"/> website
8. Did the invitation include all of the following?	
(a) brief description of the action	<input type="checkbox"/> Yes <input type="checkbox"/> No
(b) the name of the action	<input type="checkbox"/> Yes <input type="checkbox"/> No
(c) the name of the proponent	<input type="checkbox"/> Yes <input type="checkbox"/> No
(d) the location of the action	<input type="checkbox"/> Yes <input type="checkbox"/> No
(e) the matters of national environmental significance that will be or are likely to be significantly impacted	<input type="checkbox"/> Yes <input type="checkbox"/> No
(f) how the relevant documents may be obtained	<input type="checkbox"/> Yes <input type="checkbox"/> No
(g) the deadline for public comments	<input type="checkbox"/> Yes <input type="checkbox"/> No
(h) available for public comment for 14 calendar days	<input type="checkbox"/> Yes <input type="checkbox"/> No

<b>Proponent to complete</b>	
(i) the likely impacts on matters of national environmental significance	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
(j) any feasible alternatives to the proposed action	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
(k) possible mitigation measures	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
9. Were any submissions received during the public comment period?	<input type="checkbox"/> Yes <input type="checkbox"/> No
10. Have public submissions been addressed? If yes provide attachment.	<input type="checkbox"/> Yes <input type="checkbox"/> No Refer to Section 2.3 in Environmental Referral Document

## 2.1.4 Other Commonwealth Government Approvals

Proponent, DMA and Third Party to complete			
Is approval required from other Commonwealth Government/s for any part of the proposal?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
<i>If yes, please complete the table below.</i>			
Agency / Authority	Approval required	Application lodged?	Agency / Local Authority contact(s) for proposal
		<input type="checkbox"/> Yes <input type="checkbox"/> No	
		<input type="checkbox"/> Yes <input type="checkbox"/> No	

## 3. SUPPORTING INFORMATION

*Please attach copies of any relevant information on the proposal, supporting evidence and / or existing environmental surveys, studies or monitoring information undertaken and list the documents below.*

Proponent, DMA and Third Party to complete			
(1)	Environmental Referral Document	RPS for the South West Development Commission	Outlines the proposal, key environment factors, environmental impacts and potential investigations / management actions to manage / mitigate environmental impacts.
(2)			
(3)			

## PART B: ENVIRONMENTAL FACTORS

The purpose of Part B is to assist the EPA to determine the significance of the likely environmental impacts of the proposal in accordance with the EPA's *Environmental Assessment Guideline for Environmental factors and objectives* (EAG 8) and *Environmental Assessment Guideline for Application of a significant framework in the EIA process* (EAG 9). Referrers completing Part B should refer closely to EAG 8 and EAG 9.

The EPA has prepared [Referral of a Proposal under s38 of the EP Act EAG No.16 - Appendix A](#) (Appendix A) to assist in identifying factors and completing the below table. Further guidance can be found in the guidance and policy documents cited in Appendix A under each factor.

### **How to complete Part B**

For each environmental factor, that is likely to be significantly impacted by the implementation of the proposal, make a copy of the table below and insert a summary of the relevant information relating to the proposal. The table can be broken down into more than one table per factor, if the need arises. For example the hydrological processes factor can be presented in two separate tables, one for surface water and one for groundwater, or similarly one for construction and one for operations.

For complex proposals a supplementary referral report can be provided in addition to the referral form. If this option is chosen the table must still be completed (summaries are acceptable) to assist the Office of the EPA with statistical reporting and filtering proposals for processing.

Proponents expecting an API level of assessment must provide information in accordance with the EPA's *Environmental Assessment Guideline for Preparation of an API-A environmental review document* (EAG 14).

*For each of the significant environmental factors, complete the following table (Questions 1 – 10).*

<b>Proponent to complete. DMA and Third Party to complete to the best of their knowledge.</b>		
1	Factor, as defined in <a href="#">EAG 8</a>	Benthic Communities and Habitat
2	EPA Objective, as defined in <a href="#">EAG 8</a>	To maintain the structure, function, diversity, distribution and viability of benthic communities and habitats at local and regional scales
3	Guidance - what established policies, guidelines, and standards apply to this factor in relation to the proposal?	<ul style="list-style-type: none"> <li>▪ EAG No. 3: <i>Protection of Benthic Primary Producer Habitats in Western Australia's Marine Environment.</i></li> <li>▪ EAG No. 7: <i>Marine Dredging Proposals.</i></li> <li>▪ Draft EAG No. 15: <i>Protecting the Quality of Western Australia's Marine Environment.</i></li> </ul>
4	Consultation - outline the need for consultation and the outcomes of any consultation in relation to the potential environmental impacts, including: <ul style="list-style-type: none"> <li>• <i>anticipated level of public interest in the impact;</i></li> <li>• <i>consultation with regulatory agencies; and</i></li> <li>• <i>consultation with community.</i></li> </ul>	<ul style="list-style-type: none"> <li>▪ Pre-referral consultation has been undertaken with Port of Bunbury (PoB) to determine sampling locations for marine water and sediment quality and marine monitoring methodology to ensure that Koombana Bay marine environment is treated holistically accounting for cumulative impacts.</li> </ul>



Proponent to complete. DMA and Third Party to complete to the best of their knowledge.		
5	<p>Baseline information - describe the relevant characteristics of the receiving environment.</p> <p><i>This may include: regional context; known environmental values, current quality, sensitivity to impact, and current level of cumulative impacts.</i></p>	<p>Various studies within Koombana Bay and the PoB suggest the area is unlikely to support significant seagrass meadows or extensive macro algal communities. The benthic habitat is expected to be predominantly bare, un-vegetated sand. Koombana Bay may provide a feeding or nursery grounds for blue swimmer crabs.</p> <p>Management of benthic habitat will depend on the outcomes from dredge requirements and hydrodynamic and sediment modelling. If there is a low dredge volume required the impacts to marine water quality and benthic habitats is also likely to be considered low.</p> <p>Benthic communities and habitat were a key environmental factor in the consideration of the Inner Harbour Expansion PER with the EPA requiring further detailed evaluation.</p> <p>Benthic communities and habitat related environmental issues (loss of seagrass and loss of benthic habitat) were also raised for the Bunbury Waterfront Project by the EPA.</p> <p>From the Inner Harbour EIA assessment it is noted:</p> <ul style="list-style-type: none"> <li>▪ GHD completed an Environmental Quality Marine Framework (WQMF) that includes Koombana Bay in 2014.</li> <li>▪ A hydrodynamic model was prepared by GHD 2014 where Koombana Bay and surrounding waters were included in the modelling domain. The impact of the activity proposed for this Project area will be readily modelled, taking into account, if required, the cumulative impact of dredging undertaken by the PoB and dredging required for construction activities associated with this Project.</li> </ul>
6	<p>Impact assessment - describe the potential impact/s that may occur to the environmental factor as a result of implementing the proposal.</p>	<p>The construction of the marine structures will disturb areas of shallow water that potentially provides a substrate to support marine benthic habitats and communities. Temporary construction impacts are likely to include indirect disturbance to benthic fauna and flora in the project area, associated with increased turbidity during the dredging/pile-driving process. The tolerances of aquatic organisms to increased turbidity levels are highly variable (Wilber et al. 2005) and impacts will depend on the sediment load and duration of exposure. The impacts to benthic fauna are potentially greater if the sediments disturbed during construction contain elevated levels of contaminants, and this is not appropriately managed.</p> <p>Direct impacts associated with construction will be limited to sessile and slow-moving benthic organisms occurring in the direct path of pile driving and/or dredging.</p> <p>Operational impacts will be long-term and will include the shading or smothering of benthic communities and habitat. The shading produced by the structures may preclude the growth of benthic communities and habitat in some near shore areas of Koombana Bay.</p>

Proponent to complete. DMA and Third Party to complete to the best of their knowledge.		
7	<p>Mitigation measures - what measures are proposed to mitigate the potential environmental impacts? The following should be addressed:</p> <ul style="list-style-type: none"> <li>• <i>Avoidance - avoiding the adverse environmental impact altogether;</i></li> <li>• <i>Minimisation - limiting the degree or magnitude of the adverse impact;</i></li> <li>• <i>Rehabilitate – restoring the maximum environmental value that is reasonably practicable; and</i></li> <li>• <i>Offsets – actions that provide environmental benefits to counterbalance significant residual environmental impacts or risks of a project or activity.</i></li> </ul>	<p>Quantify direct and indirect (e.g. turbidity) impacts (or potential cumulative loss) to benthic communities and habitats from the construction marine structures and dredging in the context of EAG No. 3: <i>Protection of Benthic Primary Producer Habitats in Western Australia’s Marine Environment.</i></p> <ol style="list-style-type: none"> <li>1. GHD (2014) undertook an assessment of the potential impact construction activity for the expansion of the PoB may have to marine fauna. This assessment included consultation with the Dolphin Discovery Centre and may be readily updated to include potential impacts as they occur in the project area.</li> <li>2. Impacts to benthic communities and habitats will be addressed through the implementation of project specific Dredge and Spoil Disposal Management Plan (DSDMP) and Construction Management Plan (CMP). These plans will include water quality and benthic habitat monitoring which would be employed during dredging and construction phases.</li> </ol> <p>Management triggers for benthic habitats will be adopted in the DSDMP and CMP.</p> <ul style="list-style-type: none"> <li>▪ Benthic community and habitat monitoring and triggers will be established (if not already established) in cooperation with EPA.</li> <li>▪ Silt curtains will be employed e.g. for reclamation and revetment wall works to restrict silt movement.</li> </ul>
8	<p>Residual impacts – review the residual impacts against the EPA objectives.</p> <p><i>It is understood that the extent of any significant residual impacts may be hard to quantify at the referral stage. Referrers are asked to provide, as far as practicable, a discussion on the likely residual impacts and form a conclusion on whether the EPA’s objective for this factor would be met if residual impacts remain. This will require:</i></p> <ul style="list-style-type: none"> <li>• <i>quantifying the predicted impacts (extent, duration, etc.) acknowledging any uncertainty in predictions;</i></li> <li>• <i>putting the impacts into a regional or local context, incorporating knowable cumulative impacts; and</i></li> <li>• <i>comparison against any established environmental policies, guidelines, and standards.</i></li> </ul>	<p>To be determined through the Environmental Impact Assessment process and following further investigations.</p>
9	<p>EPA’s Objective – from your perspective and based on your review, which option applies to the proposal in relation to this factor? Refer to <a href="#">EAG 9</a></p>	<p><input checked="" type="checkbox"/> <i>meets the EPA’s objective</i></p> <p><input type="checkbox"/> <i>may meet the EPA’s objective</i></p> <p><input type="checkbox"/> <i>is unlikely to meet the EPA’s objective</i></p>
10	<p>Describe any assumptions critical to your conclusion (in Question 9). e.g. <i>particular mitigation measures or regulatory conditions.</i></p>	<p>With the implementation of the DSDMP and CMP, inclusive of silt curtains to restrict silt transport, the construction of the proposed marine structures, inclusive of dredging activities, is unlikely to result in long-term negative impacts on the benthic communities and habitat within Koombana Bay.</p>

Proponent to complete. DMA and Third Party to complete to the best of their knowledge.		
1	Factor, as defined in <a href="#">EAG 8</a>	Coastal Processes

Proponent to complete. DMA and Third Party to complete to the best of their knowledge.		
2	EPA Objective, as defined in <a href="#">EAG 8</a>	To maintain the morphology of the sub-tidal, intertidal and supratidal zones and the local geophysical processes that shape them.
3	Guidance - what established policies, guidelines, and standards apply to this factor in relation to the proposal?	State Planning Policy 2.6: <i>State Coastal Planning Policy</i>
4	Consultation - outline the need for consultation and the outcomes of any consultation in relation to the potential environmental impacts, including: <ul style="list-style-type: none"> <li>• <i>anticipated level of public interest in the impact;</i></li> <li>• <i>consultation with regulatory agencies; and</i></li> <li>• <i>consultation with community.</i></li> </ul>	The Department of Transport, City of Bunbury and the PoB will be consulted during the development of the Foreshore Management Plan for Koombana Bay.
5	Baseline information - describe the relevant characteristics of the receiving environment. <i>This may include: regional context; known environmental values, current quality, sensitivity to impact, and current level of cumulative impacts.</i>	Coastal landforms and processes in Koombana Bay have been substantially altered by existing coastal development and existing marine infrastructures.
6	Impact assessment - describe the potential impact/s that may occur to the environmental factor as a result of implementing the proposal.	Construction of groynes / breakwaters may have an impact upon the local landform and processes by altering local sediment movement and deposition (e.g. cause erosion on neighbouring beaches). The key risk is the shoreline and foreshore within Koombana Bay may be impacted by the proposed marine structures and require ongoing and long-term management to control localised areas of erosion or accretion.
7	Mitigation measures - what measures are proposed to mitigate the potential environmental impacts? The following should be addressed: <ul style="list-style-type: none"> <li>• <i>Avoidance - avoiding the adverse environmental impact altogether;</i></li> <li>• <i>Minimisation - limiting the degree or magnitude of the adverse impact;</i></li> <li>• <i>Rehabilitate – restoring the maximum environmental value that is reasonably practicable; and</i></li> <li>• <i>Offsets – actions that provide environmental benefits to counterbalance significant residual environmental impacts or risks of a project or activity.</i></li> </ul>	<p>To be confirmed with OEPA.</p> <p>However, a Foreshore Management Plan (FMP) for Koombana Bay is anticipated to be required,. The FMP would be finalised in collaboration with the Department of Transport, City of Bunbury and the PoB, to ensure that the impact of all coastal structures is accounted for and coastal processes are managed efficiently.</p> <p>The “whole foreshore” management plan will be based upon the outcomes of the coastal processes assessment. The FMP will include an analysis of foreshore monitoring and modelling results to identify any areas of sediment accretion or erosion. The FMP would also outline any long-term requirements for management such as any localised sand nourishment for instance in identified localised erosion prone areas if required.</p> <p>In assessing the management options for Koombana Bay the following adaptation measures will likely need to be considered by a coastal engineer after the coast processes assessment:</p> <ul style="list-style-type: none"> <li>▪ building design</li> <li>▪ coastal protection</li> <li>▪ beach nourishment and profile enhancement to manage the assessed erosion hazard.</li> </ul>

Proponent to complete. DMA and Third Party to complete to the best of their knowledge.		
8	<p>Residual impacts – review the residual impacts against the EPA objectives.</p> <p><i>It is understood that the extent of any significant residual impacts may be hard to quantify at the referral stage. Referrers are asked to provide, as far as practicable, a discussion on the likely residual impacts and form a conclusion on whether the EPA's objective for this factor would be met if residual impacts remain. This will require:</i></p> <ul style="list-style-type: none"> <li>• <i>quantifying the predicted impacts (extent, duration, etc.) acknowledging any uncertainty in predictions;</i></li> <li>• <i>putting the impacts into a regional or local context, incorporating knowable cumulative impacts; and</i></li> <li>• <i>comparison against any established environmental policies, guidelines, and standards.</i></li> </ul>	To be determined through the Environmental Impact Assessment process and following further investigations.
9	EPA's Objective – from your perspective and based on your review, which option applies to the proposal in relation to this factor? Refer to <a href="#">EAG 9</a>	<input checked="" type="checkbox"/> <i>meets the EPA's objective</i> <input type="checkbox"/> <i>may meet the EPA's objective</i> <input type="checkbox"/> <i>is unlikely to meet the EPA's objective</i>
10	Describe any assumptions critical to your conclusion (in Question 9). e.g. <i>particular mitigation measures or regulatory conditions.</i>	The implementation of the approved FMP will ensure that the construction of the proposed marine structures, inclusive of dredging activities, will not result in long-term negative impacts on the Koombana Bay foreshore environment.

Proponent to complete. DMA and Third Party to complete to the best of their knowledge.		
1	Factor, as defined in <a href="#">EAG 8</a>	Marine Environmental Quality
2	EPA Objective, as defined in <a href="#">EAG 8</a>	To maintain the quality of water, sediment and biota so that the environmental values, both ecological and social, are protected.
3	Guidance - what established policies, guidelines, and standards apply to this factor in relation to the proposal?	<ul style="list-style-type: none"> <li>▪ EAG No. 3: <i>Protection of Benthic Primary Producer Habitats in Western Australia's Marine Environment.</i></li> <li>▪ EAG No. 7: <i>Marine Dredging Proposals.</i></li> <li>▪ Draft EAG: <i>Protecting the Quality of Western Australia's Marine Environment.</i></li> <li>▪ Australian and New Zealand Guidelines for Fresh and Marine Water Quality.</li> <li>▪ Australian and New Zealand National Ocean Disposal Guidelines for Dredged Material.</li> <li>▪ State Water Quality Management Strategy Document No. 6.</li> <li>▪ Perth's Coastal Waters: Environmental Values and Objectives, Environmental Protection Authority Position Statement.</li> </ul>
4	<p>Consultation - outline the need for consultation and the outcomes of any consultation in relation to the potential environmental impacts, including:</p> <ul style="list-style-type: none"> <li>• <i>anticipated level of public interest in the impact;</i></li> <li>• <i>consultation with regulatory agencies; and</i></li> <li>• <i>consultation with community.</i></li> </ul>	Pre-referral consultation has been undertaken with PoB to determine ensure the GHD Environmental Quality Marine Framework (WQMF) includes Koombana Bay and the hydrodynamic modelling can account for any cumulative impacts.

Proponent to complete. DMA and Third Party to complete to the best of their knowledge.		
5	<p>Baseline information - describe the relevant characteristics of the receiving environment.</p> <p><i>This may include: regional context; known environmental values, current quality, sensitivity to impact, and current level of cumulative impacts.</i></p>	<p>The numerous environmental quality studies have been undertaken for the PoB as part of development of the port, previous dredging and placement of dredged material activities, and environmental compliance have identified:</p> <ul style="list-style-type: none"> <li>▪ there is a correlation between rainfall and river flow from the Preston River and water quality (turbidity and nutrient levels) within Koombana Bay</li> <li>▪ turbidity levels within Koombana Bay are more variable and likely to be influenced by river inflows and tidal exchange from the Leschenault Estuary, wind speed and direction, wave height, and re-suspension of bottom sediment</li> <li>▪ analysis of metals in the marine sediment identified arsenic levels were above the screening level (20 mg/kg), at the Inner Harbour, Outer Harbour and sites around Koombana Bay. The distribution of the elevated arsenic concentrations in water suggest this is naturally occurring outside of the port area</li> <li>▪ polychlorinated biphenyls, organochlorine pesticides and aromatic hydrocarbons were below detection levels in the marine sediment quality testing.</li> </ul>
6	<p>Impact assessment - describe the potential impact/s that may occur to the environmental factor as a result of implementing the proposal.</p>	<ul style="list-style-type: none"> <li>▪ Dredging activity may result in the smothering or removal of seagrass.</li> <li>▪ Dredging activity will result in the creation of a turbidity plume resulting from seabed sediments becoming mobilised and re-suspended in the water column. Dredging activity is likely to reduce temporarily light available to seagrass and may cause avoidance behaviour in marine fauna.</li> <li>▪ Dredging activities may potentially release acid, metals and other toxicants into the water column which have the potential to impact upon benthic communities within the predicted dredge plume.</li> <li>▪ Dredge spoil from the project site may contain ASS.</li> <li>▪ Dredging and construction activities such as rock dumping during groyne/breakwater construction will affect turbidity levels in the immediate vicinity of these activities in Koombana Bay.</li> <li>▪ Construction of the Koombana Sailing Club Marina may create a water body with the capacity to retain marine water for extended periods of time, and to receive groundwater and from Leschenault Inlet. Poor flushing of the water body could create conditions suitable for algal blooms or other water quality issues which may in turn have broader implications for water quality and ecosystem health within Koombana Bay.</li> </ul>
7	<p>Mitigation measures - what measures are proposed to mitigate the potential environmental impacts? The following should be addressed:</p> <ul style="list-style-type: none"> <li>• <i>Avoidance - avoiding the adverse environmental impact altogether;</i></li> <li>• <i>Minimisation - limiting the degree or magnitude of the adverse impact;</i></li> <li>• <i>Rehabilitate – restoring the maximum environmental value that is reasonably practicable; and</i></li> <li>• <i>Offsets – actions that provide environmental benefits to counterbalance significant residual environmental impacts or risks of a project or activity.</i></li> </ul>	<ul style="list-style-type: none"> <li>▪ Identify potential use, treatment and disposal methodology for dredge spoil.</li> <li>▪ Manage any predicted impacts to benthic communities and habits resulting from dredging activities.</li> </ul> <p>Impacts to marine environmental quality will be addressed through the implementation of project specific Dredge Spoil Disposal Management Plan (DSDMP) and Construction Management Plan (CMP) which will include:</p> <ul style="list-style-type: none"> <li>- water quality parameters and triggers established under GHD's 2014 WQMF that includes Koombana Bay.</li> <li>- samples will be assessed against ANZECC and ARMCANZ and State Water Quality Management guidelines.</li> </ul>

Proponent to complete. DMA and Third Party to complete to the best of their knowledge.		
8	<p>Residual impacts – review the residual impacts against the EPA objectives. <i>It is understood that the extent of any significant residual impacts may be hard to quantify at the referral stage. Referrers are asked to provide, as far as practicable, a discussion on the likely residual impacts and form a conclusion on whether the EPA’s objective for this factor would be met if residual impacts remain. This will require:</i></p> <ul style="list-style-type: none"> <li>quantifying the predicted impacts (extent, duration, etc.) acknowledging any uncertainty in predictions;</li> <li>putting the impacts into a regional or local context, incorporating knowable cumulative impacts; and</li> <li>comparison against any established environmental policies, guidelines, and standards.</li> </ul>	<p>To be determined through the Environmental Impact Assessment process and following further investigations.</p> <p>However it is noted:</p> <ul style="list-style-type: none"> <li>A hydrodynamic model was prepared by GHD 2014 where Koombana Bay and surrounding waters were included in the modelling domain. The impact of the activity proposed for this Project area will be readily modelled, taking into account, if required, the cumulative impact of dredging undertaken by the PoB and dredging required for construction activities associated with this Project.</li> <li>GHD completed a WQMF that includes Koombana Bay in 2014 this would be used in the design and implementation of management plans e.g. DSDMP and CMP</li> </ul>
9	<p>EPA’s Objective – from your perspective and based on your review, which option applies to the proposal in relation to this factor? Refer to <a href="#">EAG 9</a></p>	<p><input checked="" type="checkbox"/> meets the EPA’s objective  <input type="checkbox"/> may meet the EPA’s objective  <input type="checkbox"/> is unlikely to meet the EPA’s objective</p>
10	<p>Describe any assumptions critical to your conclusion (in Question 9). e.g. particular mitigation measures or regulatory conditions.</p>	<p>With the implementation of the DSDMP and CMP, inclusive of silt curtains to restrict silt transport, the construction of the proposed marine structures, inclusive of dredging activities, is unlikely to result in long-term negative impacts to the quality of the marine environment within Koombana Bay.</p>

Proponent to complete. DMA and Third Party to complete to the best of their knowledge.		
1	Factor, as defined in <a href="#">EAG 8</a>	Marine Fauna - Dolphins
2	EPA Objective, as defined in <a href="#">EAG 8</a>	To maintain the diversity, geographic distribution, and viability of fauna at the species and population levels
3	Guidance - what established policies, guidelines, and standards apply to this factor in relation to the proposal?	<ul style="list-style-type: none"> <li>Wildlife Conservation Act 1950</li> <li>Guidance Statement No. 8: <i>Environmental Noise (Draft)</i></li> </ul>
4	<p>Consultation - outline the need for consultation and the outcomes of any consultation in relation to the potential environmental impacts, including:</p> <ul style="list-style-type: none"> <li>anticipated level of public interest in the impact;</li> <li>consultation with regulatory agencies; and</li> <li>consultation with community.</li> </ul>	<p>Liaison with the Dolphin Discovery Centre concerning the management of dolphins during construction activities will be undertaken to ensure that such activities can be conducted with negligible risk to dolphins.</p> <p>It is noted, GHD (2014) undertook an assessment of the potential impact construction activity for the expansion of the PoB may have to marine fauna. This assessment included consultation with the Dolphin Discovery Centre and may be readily updated to include potential impacts as they occur in the Project area.</p>
5	<p>Baseline information - describe the relevant characteristics of the receiving environment. <i>This may include: regional context; known environmental values, current quality, sensitivity to impact, and current level of cumulative impacts.</i></p>	<p>Studies undertaken to date have identified 196 individual dolphins occurring in the region. Dolphin abundance varies seasonally, with greater numbers occurring during summer and autumn.</p>
6	Impact assessment - describe the potential impact/s that may occur to the environmental factor as a result of implementing the proposal.	<ul style="list-style-type: none"> <li>Expansion works that require the construction of breakwater, piling, reclamation and dredging present a risk to marine fauna, especially dolphins that inhabit Koombana Bay.</li> <li>Vessel movements in the project area have the potential to collide with marine fauna, in particular fauna that are required to come to the surface to breathe (mammals, birds and reptiles).</li> </ul>

Proponent to complete. DMA and Third Party to complete to the best of their knowledge.		
7	<p>Mitigation measures - what measures are proposed to mitigate the potential environmental impacts? The following should be addressed:</p> <ul style="list-style-type: none"> <li>• <i>Avoidance - avoiding the adverse environmental impact altogether;</i></li> <li>• <i>Minimisation - limiting the degree or magnitude of the adverse impact;</i></li> <li>• <i>Rehabilitate – restoring the maximum environmental value that is reasonably practicable; and</i></li> <li>• <i>Offsets – actions that provide environmental benefits to counterbalance significant residual environmental impacts or risks of a project or activity.</i></li> </ul>	<p>To be confirmed by the OEPA post review however, following management measures are proposed:</p> <ol style="list-style-type: none"> <li>1. Application of methodologies, such as socketing and/or pinning the piles during construction, to reduce underwater noise generation.</li> <li>2. Engagement of construction contractors experienced in drilling in marine environments in situations where noise and vibration impacts need to be considered.</li> <li>3. Marine fauna (dolphin) monitoring will be undertaken by dedicated marine fauna observers during dredging works or marine (groyne / jetty piling) construction works. Management of marine fauna (e.g. dolphin monitoring and siting during construction work, regulating the timing of works) will be addressed within the Dredge Spoil Disposal Management Plan (DSDMP) and Construction Management Plan (CMP).</li> <li>4. Dredge activities will be limited to winter months (April to October) to avoid the peak dolphin calving period and the majority of the blue swimmer crab spawning season.</li> <li>5. Ongoing education program for boat users will be implemented to control against the negative impacts (boat strikes) that vessel movements have on marine fauna.</li> <li>6. Release of solid and liquid wastes, their associated impacts and ways to reduce environmental impacts will be addressed as specific aspects in the CMP.</li> </ol>
8	<p>Residual impacts – review the residual impacts against the EPA objectives. <i>It is understood that the extent of any significant residual impacts may be hard to quantify at the referral stage. Referrers are asked to provide, as far as practicable, a discussion on the likely residual impacts and form a conclusion on whether the EPA’s objective for this factor would be met if residual impacts remain. This will require:</i></p> <ul style="list-style-type: none"> <li>• <i>quantifying the predicted impacts (extent, duration, etc.) acknowledging any uncertainty in predictions;</i></li> <li>• <i>putting the impacts into a regional or local context, incorporating knowable cumulative impacts; and</i></li> <li>• <i>comparison against any established environmental policies, guidelines, and standards.</i></li> </ul>	<p>To be determined through the Environmental Impact Assessment process and following further investigations.</p>
9	<p>EPA’s Objective – from your perspective and based on your review, which option applies to the proposal in relation to this factor? Refer to <a href="#">EAG 9</a></p>	<p><input checked="" type="checkbox"/> <i>meets the EPA’s objective</i>  <input type="checkbox"/> <i>may meet the EPA’s objective</i>  <input type="checkbox"/> <i>is unlikely to meet the EPA’s objective</i></p>
10	<p>Describe any assumptions critical to your conclusion (in Question 9). e.g. <i>particular mitigation measures or regulatory conditions.</i></p>	<p>With the implementation of the proposed management measures (described above in Sections 4, 7 and 8) the construction of the proposed marine structures, inclusive of dredging activities, is unlikely to result in long-term negative impacts to the marine fauna within Koombana Bay.</p>

*In circumstances where there was some uncertainty on the level of significance of a particular factor it is recommended that a brief summary (no longer than 1 - 2 paragraphs) is provided on the steps taken to determine why a factor was not considered to be significant.*