



**Environmental Protection Authority**

**EPA REFERRAL  
FORM  
PROPONENT**

**Referral of a Proposal by the Proponent to the Environmental Protection Authority under Section 38(1) of the *Environmental Protection Act 1986*.**

**PURPOSE OF THIS FORM**

Section 38(1) of the *Environmental Protection Act 1986* (EP Act) provides that where a development proposal is likely to have a significant effect on the environment, a proponent may refer the proposal to the Environmental Protection Authority (EPA) for a decision on whether or not it requires assessment under the EP Act. This form sets out the information requirements for the referral of a proposal by a proponent.

Proponents are encouraged to familiarise themselves with the EPA’s *General Guide on Referral of Proposals* [see Environmental Impact Assessment/Referral of Proposals and Schemes] before completing this form.

A referral under section 38(1) of the EP Act by a proponent to the EPA must be made on this form. A request to the EPA for a declaration under section 39B (derived proposal) must be made on this form. This form will be treated as a referral provided all information required by Part A has been included and all information requested by Part B has been provided to the extent that it is pertinent to the proposal being referred. Referral documents are to be submitted in two formats – hard copy and electronic copy. The electronic copy of the referral will be provided for public comment for a period of 7 days, prior to the EPA making its decision on whether or not to assess the proposal.

**CHECKLIST**

Before you submit this form, please check that you have:

	Yes	No
Completed all the questions in Part A (essential).	x	
Completed all applicable questions in Part B.	x	
Included Attachment 1 – location maps.	x	
Included Attachment 2 – additional document(s) the proponent wishes to provide (if applicable).	x	
Included Attachment 3 – confidential information (if applicable).		
Enclosed an electronic copy of all referral information, including spatial data and contextual mapping but excluding confidential information.	x	

Following a review of the information presented in this form, please consider the following question (a response is optional).

Do you consider the proposal requires formal environmental impact assessment?	
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> Not sure
If yes, what level of assessment?	
<input checked="" type="checkbox"/> Assessment on Proponent Information	<input type="checkbox"/> Public Environmental Review

The proposal comprises relatively small scale disturbance within a generally well understood environment. Site selection has avoided features of particular environmental value and the proposal is proposed to be undertaken within the framework of existing environmental management systems, plans and procedures that are being applied to the approved Gorgon Gas Development and have been proven to ensure there are no unacceptable environmental impacts. The proposal will be implemented by a workforce familiar with the environmental sensitivities of the area and to meet Chevron Australia's commitment to excellence in environmental stewardship. It is considered that the proposal:

- Will not result in any unacceptable residual environmental impacts and can be managed to meet all of the EPA's objectives.
- Raises a limited number of preliminary key environmental factors and involves activities that have previously been subjected to detailed assessment for the potential to impact those factors. The impacts can be readily managed through application of the management measures that have previously been developed for the activities involved, to the satisfaction of DPAW, DotE and the OEPA (and other relevant DMAs).
- Does not introduce any environmental issues that have not previously been considered by stakeholders through the public assessment process(es) for the approved Gorgon Gas Development, and will incorporate additional appropriate and effective stakeholder consultation that will encompass all relevant DMAs and other key stakeholders
- Is consistent with all relevant environmental policies, guidelines and standards.

Summary of the potential impacts and expected outcomes for environmental factors is provided in Attachment 2.

**PROPONENT DECLARATION** (to be completed by the proponent)

I, Colin Beckett., (*full name*) declare that I am authorised on behalf of...Chevron Australia Pty Ltd... (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) COLIN BECKETT
General Manager – Greater Gorgon Area	Chevron Australia Pty Ltd
Date 25 October 2013	

## PART A - PROPONENT AND PROPOSAL INFORMATION

(All fields of Part A must be completed for this document to be treated as a referral)

### 1 PROPONENT AND PROPOSAL INFORMATION

#### 1.1 Proponent

Name	Chevron Australia Pty Ltd
Joint Venture parties (if applicable)	Chevron (TAPL) Pty Ltd Shell Development (Australia) Proprietary Limited Mobil Australia Resources Company Pty Limited Osaka Gas Gorgon Pty Ltd Tokyo Gas Gorgon Pty Ltd Chubu Electric Power Gorgon Pty Ltd Collectively known as the Gorgon Joint Venturers (GJVs)
Australian Company Number (if applicable)	29 086 197 757
Postal Address (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)	GPO Box S1580 Perth WA 6000
Key proponent contact for the proposal: <ul style="list-style-type: none"><li>• name</li><li>• address</li><li>• phone</li><li>• email</li></ul>	Mr David Lee Government Approvals Manager 250 St Georges Terrace Perth WA 6000 Phone: (08) 9216 4144 Email: <a href="mailto:DavidLee@chevron.com">DavidLee@chevron.com</a>
Consultant for the proposal (if applicable): <ul style="list-style-type: none"><li>• name</li><li>• address</li><li>• phone</li><li>• email</li></ul>	N/A

#### 1.2 Proposal

<b>Title</b>
Gorgon Gas Development, Additional Construction Laydown and Operations Support Area
<b>Description</b>
Chevron Australia Pty Ltd (Chevron Australia), on behalf of the GJVs, proposes to undertake clearing and earthworks over up to 32 hectares (ha) of uncleared land (proposal area) within an approximately 36 ha development envelope adjoining existing Gorgon Gas Development infrastructure sites on Barrow Island (see Figure 1 in

Attachment 1) and relocate certain activities and facilities of the approved Gorgon Gas Development to the cleared area.

The use of land on Barrow Island for gas processing purposes is provided under the *Barrow Island Act 2003 (WA)* (Barrow Island Act). The uncleared land encompassed by this proposal will fall within the limitation on the grant of tenure over uncleared land available for gas developments stipulated by proposed amendments to the Barrow Island Act introduced to Parliament by the Western Australian Government on 23 October 2013. The proposal assumes those amendments will be passed by Parliament and can only be implemented if the amendments are enacted. The proposal does not include construction of any new production, transportation or accommodation facilities and all workforce, utilities and transport requirements will be met via existing infrastructure and/or from within existing (approved) capacities of the Gorgon Gas Development.

The proposal area will assist optimisation of the approved Gorgon Gas Development's schedule, cost and environmental performance by reducing current requirements for handling, transportation and mobilisation/demobilisation of equipment and materials.

Use of the land will comprise:

- temporary construction support within an area immediately south of the existing Gas Treatment Plant site
- operations support within an expansion of the existing administration/operations complex site.

The location of the development envelope has been selected to avoid significant environmental features and to minimise potential environmental effects to the extent practicable. Environmental aspects of the proposal will be managed consistent with the comprehensive suite of approved systems, plans and procedures that have been developed for the Gorgon Gas Development to meet State and Commonwealth environmental conditions of approval. Land within the construction support area will be rehabilitated when no longer required, in accordance with the strategies described in the approved Post-construction Rehabilitation Plan (Chevron Australia 2009).

The proposal will primarily constitute a consolidation of approved Gorgon Gas Development activities occurring elsewhere on Barrow Island onto a site closer to the Gas Treatment Plant site, but will also allow consolidation of some activities (eg critical spares warehousing) that may otherwise have partly occurred on the mainland. The proposal does not involve any new or different activities or facilities from those previously assessed and approved for the Gorgon Gas Development.

The Key Characteristics of the proposal are summarised in Table 1 (Attachment 2).

The approved Gorgon Gas Development, inclusive of the activities and facilities that may be sited on the proposal area, and associated conditions of environmental approval are not the subject of this referral.

**Extent (area) of proposed ground disturbance.**

The proposal will involve ground disturbance over up to 32ha of land, or approximately 0.1% of Barrow Island, consisting of:

- approximately 20ha of land that will be temporarily used for construction support activities, including temporary office, workshop, equipment staging, storage and laydown facilities.
- approximately 12ha of land that will house operations support facilities, including warehouses, workshops and associated offices and parking areas as an expansion of the existing administration/operations complex.

**Timeframe in which the activity or development is proposed to occur (including start and finish dates where applicable).**

Development of the land will occur within the construction timeframe for the approved Gorgon Gas Development. Subject to receipt of all necessary approvals, clearing and earthworks are expected to commence in mid 2014. The works will be undertaken by the existing construction workforce and contractors, using machinery involved with construction of the approved Gorgon Gas Development on the island. It is anticipated clearing and earthworks over the area will take approximately six to 12 months, depending on other construction demands, weather downtime etc. After construction, use of operational areas will continue for the life of the approved Gorgon Gas Development (~60 years expected) while laydown areas no longer required for construction support will be rehabilitated, in accordance with the management strategies described in the approved Post-construction Rehabilitation Plan (Chevron Australia 2009).

**Details of any staging of the proposal.**

The proposal will not be staged, but construction in different areas may progress at different times depending on execution priorities and other construction demands on the construction workforce and equipment.

**Is the proposal a strategic proposal?**

No

**Is the proponent requesting a declaration that the proposal is a derived proposal? If so, provide the following information on the strategic assessment within which the referred proposal was identified:**

- title of the strategic assessment; and
- Ministerial Statement number.

No

**Please indicate whether, and in what way, the proposal is related to other proposals in the region.**

The proposal is designed to allow facilities/activities of the previously approved Gorgon Gas Development to be consolidated onto a site adjacent to the Gas Treatment Plant on Barrow Island, leading to efficiencies in the execution of the Gorgon Gas Development and a corresponding reduction in construction duration and operational risks. The approved Gorgon Gas Development, which is currently being constructed, consists of the following proposals:

- the initial (ten million tonnes per annum (MTPA)) Gorgon Gas Development Proposal,

approved by the Western Australian Minister for Environment on 6 September 2007 (Ministerial Implementation Statement No. 748 [Statement No. 748]) and the Commonwealth Minister for the Environment on 3 October 2007 (EPBC Reference: 2003/1294)

- the Gorgon Gas Development Revised and Expanded (15 MTPA) Proposal, which was granted approval by the Western Australian Minister for Environment on 10 August 2009 (Ministerial Implementation Statement No. 800 [Statement No. 800]) and the Commonwealth Minister for Environment, Heritage and the Arts on 26 August 2009 (EPBC Reference: 2008/4178)
- the Jansz Feed Gas Pipeline, approved by the Western Australian State Minister for Environment on 28 May 2008 (Ministerial Implementation Statement No. 769 [Statement No. 769]) and the Commonwealth Minister for Environment and Water Resources on 22 March 2006 (EPBC Reference: 2005/2184).

The proposal is also related to the Gorgon Gas Development Fourth Train Proposal (Fourth Train Proposal) which was referred in April 2011 (Chevron Australia 2011) and which, if it proceeds, would form part of the Gorgon Gas Development.

Given the relationship between the proposal and the approved Gorgon Gas Development, Chevron Australia proposes to manage potential environmental impacts consistently with the objectives, management measures, contingency measures, triggers and monitoring which are currently approved for the Gorgon Gas Development and have ensured the Gorgon Gas Development has not led to any unacceptable environmental outcomes. Where necessary, Chevron Australia proposes to seek minor amendments to the relevant approved Gorgon Gas Development environmental management plans so that they also apply to the scope of the proposal. Additional information about the environmental management plans will be provided to assist the EPA's assessment of this proposal when available following consultation with relevant agencies and stakeholders, but is not expected to change the predicted assessment outcomes in this referral.

The approved Gorgon Gas Development, inclusive of the activities and facilities that may be sited on the proposal area, and associated conditions of environmental approval are not the subject of this referral.

**Does the proponent own the land on which the proposal is to be established? If not, what other arrangements have been established to access the land?**

Barrow Island is a Class A nature reserve vested in the Conservation Commission of Western Australia. The island is also an operating oilfield with Petroleum Lease L-1-H held by the Barrow Island Joint Venturers.

The Barrow Island Act establishes arrangements for access to land on Barrow Island for gas processing purposes through a restricted allocation of uncleared land and shared access to existing oilfield facilities. Following approval of Development Proposals in accordance with the Gorgon Gas Processing and Infrastructure Project Agreement (State Agreement), the GJVs may seek tenure over the land in the form of Leases, Licences or Easements under the *Land Administration Act 1997* (WA). There are currently a number of leases, licences and easements in place for the approved Gorgon Gas Development.

At the time of referral, proposed amendments to the Barrow Island Act and State Agreement have been introduced into Parliament by the Western Australian

Government. This proposal is consistent with those amendments and has been referred on the assumption that the proposed amendments will be adopted. The proposal will only be implemented if and when the Barrow Island Act has been appropriately amended and all other necessary regulatory approvals obtained.

**What is the current land use on the property, and the extent (area in hectares) of the property?**

Barrow Island is a Class A nature reserve and an operating oilfield. The island extends over approximately 23, 500 ha. The up to 32 ha of land involved with this proposal is currently uncleared Crown land.

**1.3 Location**

Name of the Shire in which the proposal is located.	Shire of Ashburton
For urban areas: <ul style="list-style-type: none"> <li>• street address;</li> <li>• lot number;</li> <li>• suburb; and</li> <li>• nearest road intersection.</li> </ul>	N/A
For remote localities: <ul style="list-style-type: none"> <li>• nearest town; and</li> <li>• distance and direction from that town to the proposal site.</li> </ul>	Barrow Island is located approximately 60 km off the north-west coast of WA.  The nearest town is Onslow, located approximately 85 km to the south-south-west of Barrow Island.
Electronic copy of spatial data - GIS or CAD, georeferenced and conforming to the following parameters: <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: Arcview shapefile, Arcinfo coverages, Microstation or AutoCAD.</li> </ul>	Enclosed?: Yes

**1.4 Confidential Information**

Does the proponent wish to request the EPA to allow any part of the referral information to be treated as confidential?	No
If yes, is confidential information attached as a separate document in hard copy?	N/A

## 1.5 Government Approvals

Is rezoning of any land required before the proposal can be implemented? If yes, please provide details.		No	
Is approval required from any Commonwealth or State Government agency or Local Authority for any part of the proposal? If yes, please complete the table below.		Yes	
<b>Agency/Authority</b>	<b>Approval required</b>	<b>Application lodged Yes / No</b>	<b>Agency/Local Authority contact(s) for proposal</b>
Barrow Island Act Minister	Development Proposals or variations	No	
Minister for Lands	Project Land Tenure (changes to lease, licence and easements)	No	
Shire of Ashburton	Local Government Development/Planning Application and Building Permits (if required)	No	
Department of Environmental Regulation	Construction Works Approvals and Licenses to Operate (if required)	No	
Department of the Environment	EPBC Act Approval pertaining to matters of National Environmental Significance (if required)	No	

## PART B - ENVIRONMENTAL IMPACTS AND PROPOSED MANAGEMENT

### 2. ENVIRONMENTAL IMPACTS

Describe the impacts of the proposal on the following elements of the environment, by answering the questions contained in Sections 2.1-2.11:

- 2.1 flora and vegetation;
- 2.2 fauna;
- 2.3 rivers, creeks, wetlands and estuaries;
- 2.4 significant areas and/ or land features;
- 2.5 coastal zone areas;
- 2.6 marine areas and biota;
- 2.7 water supply and drainage catchments;
- 2.8 pollution;
- 2.9 greenhouse gas emissions;
- 2.10 contamination; and
- 2.11 social surroundings.

These features should be shown on the site plan, where appropriate.

For all information, please indicate:

- (a) the source of the information; and
- (b) the currency of the information.

#### 2.1 Flora and Vegetation

2.1.1 Do you propose to clear any native flora and vegetation as a part of this proposal?

[A proposal to clear native vegetation may require a clearing permit under Part V of the EP Act (Environmental Protection (Clearing of Native Vegetation) Regulations 2004)]. Please contact the Department of Environment and Conservation (DEC) for more information.

- (please tick)  Yes **If yes**, complete the rest of this section.  
 No **If no**, go to the next section

2.1.2 How much vegetation are you proposing to clear (in hectares)?

Up to approximately 32 ha

2.1.3 Have you submitted an application to clear native vegetation to the DEC (unless you are exempt from such a requirement)?

- Yes  No **If yes**, on what date and to which office was the application submitted of the DEC?

2.1.4 Are you aware of any recent flora surveys carried out over the area to be disturbed by this proposal?

Yes

No

**If yes**, please attach a copy of any related survey reports and provide the date and name of persons / companies involved in the survey(s).

**If no**, please do not arrange to have any biological surveys conducted prior to consulting with the DEC.

Flora and vegetation surveys have been undertaken across Barrow Island since the 1960s. Most recently, and relevant to the proposal, these include:

- RPS Bowman Bishaw Gorham (BBG) and Matiske Consulting (2005) surveyed and mapped vegetation in accordance with EPA Guidance Statement No. 51 (EPA 2004) within an area of approximately 1683 ha surrounding the Gas Treatment Plant and Administration and Operations Complex sites, and encompassing the land involved in this proposal, for the Gorgon Gas Development EIS/ERMP (Chevron Australia 2005). A total of 72 permanent vegetation quadrats (50 x 50 m and 10 x 50 m) were established and surveyed in September and October 2003 and in January 2004. Additional surveys over the Gas Treatment Plant site were undertaken in April and May 2004 following cyclonic rains, to collect annual species. Copies of the survey report are available via Chevron Australia's website:

<http://www.chevronaustralia.com/ourbusinesses/gorgon/environmentalresponsibility/environmentalapprovals.aspx>

- Matiske and Associates (1993) established more than 100 quadrats for vegetation mapping at a scale of 1:25 000 and classified plant communities based on major landform types, soil types and dominant species (including cluster analysis of percentage foliage cover in quadrats). This refined the vegetation units of Buckley (1983). The resulting vegetation mapping extended across the entire island, including the land involved in this proposal.

A range of subsequent vegetation surveys have been conducted in the vicinity of approved Gorgon Gas Development sites to meet the requirements of monitoring programs developed by Chevron Australia in accordance with environmental conditions of approval for the Gorgon Gas Development.

The mapping by Matiske and Associates (1993) characterises the vegetation over the entire island at formation level and allows local disturbance to be placed in a broader context. The more detailed mapping to association level undertaken for the EIS/ERMP extends over a limited area, generally within and surrounding areas proposed to be developed for the approved Gorgon Gas Development.

At either classification level, there are no mapped vegetation types that are restricted or largely restricted to the development envelope. There are no Declared Rare Flora or Threatened Ecological Communities listed under either State or Commonwealth legislation on Barrow Island. Department of Parks and Wildlife (DPaW) has listed two vegetative Priority 1 Ecological Communities (PEC) on Barrow Island, one associated with creeklines and one with coastal dunes. Neither is known from the development envelope, which does not

contain the associated landforms. All of the vegetation types in the proposal envelope also occur elsewhere on Barrow Island, within the Barrow Island Nature Reserve.

The vegetation formations (Mattiske and Associates 1993) that occur within the development envelope are presented in Table 2, Attachment 2. Four vegetation formations have been mapped in the area, namely V1, L7, D2 and F1. The vegetation of the area is dominated by V1 (hummock grassland of *Triodia wiseana* with mixed emergent shrub species on valley slopes), which comprises approximately 20 ha of the approximately 36 ha development envelope, and L7 (hummock grassland of *Triodia wiseana* with dense pockets of *Melaleuca cardiophylla* on limestone ridges) which comprises approximately 13 ha of the development envelope. The development envelope contains less than 1 % of the island-wide mapped distribution of any individual vegetation formation and the 32 ha proposal area within which clearing will occur would likely contain an even smaller proportion of each individual vegetation formation. Considered cumulatively with previous disturbance, clearing of 32 ha within the development envelope would represent negligible (<1 %) additional disturbance to any vegetation formation.

Based on the more restricted mapping to vegetation association level described in the environmental reviews of the approved Gorgon Gas Development (Chevron Australia 2005; 2008), five vegetation associations are present within the development envelope (Figure 2 Attachment 2). The dominant associations within the development envelope are V1m (approximately 16 ha) and L7b (approximately 13 ha). Community V1m consists of *Melaleuca* and *Acacia* heath over mixed *Triodia* hummock grassland on limestone slopes and ridges. Community L7b comprises open low shrubland of *Melaleuca* and *Acacia* over closed *Triodia* hummock grassland on limestone slopes and ridges.

All of these vegetation associations are also represented in the nature reserve, outside of development areas. The development envelope contains less than 12% of the currently mapped area of any of these vegetation associations (Table 3 Attachment 2). However, the mapping to this level has only been undertaken over approximately 2, 500 ha, or approximately 11% of Barrow Island, and has been restricted to areas in the vicinity of the approved Gorgon Gas Development's infrastructure. Consequently, it is likely that the actual (island-wide) proportion of any vegetation association that is contained within the development envelope is substantially lower than indicated by the current mapping. The proposal area over which clearing may occur would comprise an even smaller proportion. Considered cumulatively with previous disturbance, clearing of 32 ha within the development envelope would represent no more than 12 % additional disturbance to the mapped area of any vegetation association and would not compromise its representation, viability or ecological function on Barrow Island.

Management of potential impacts to flora and vegetation will be implemented consistent with the objectives, management measures, contingency measures, triggers and monitoring which are currently approved for the Gorgon Gas Development and have ensured the approved Gorgon Gas Development has not led to any unacceptable effects on flora or vegetation.

To augment the information available from previous surveys, provide a site - specific floral inventory for the proposal envelope and validate, and/or update, the previous vegetation classifications over the area, Astron Environmental Services undertook a survey within the development area during 14<sup>th</sup> to 19<sup>th</sup>

October 2013. The survey report is currently being finalised and will be provided to assist the EPA's assessment of this proposal when available, but is not expected to change the predicted assessment outcomes in this referral.

2.1.5 Has a search of DEC records for known occurrences of rare or priority flora or threatened ecological communities been conducted for the site?

Yes

No

If you are proposing to clear native vegetation for any part of your proposal, a search of DEC records of known occurrences of rare or priority flora and threatened ecological communities will be required. Please contact DEC for more information.

2.1.6 Are there any known occurrences of rare or priority flora or threatened ecological communities on the site?

Yes

No

**If yes**, please indicate which species or communities are involved and provide copies of any correspondence with DEC regarding these matters.

The Priority 3 species, *Corchorus congener*, is broadly distributed across Barrow Island and likely to be present within the proposal area. This plant also occurs on the mainland and is reported to regenerate successfully on rehabilitated sites (Astron Environmental Services 2002). The species is not considered to be conservation 'significant' on Barrow Island (Astron Environmental Services 2008) and the clearing associated with the proposal would not compromise its representation, viability or ecological function on the island.

2.1.7 If located within the Perth Metropolitan Region, is the proposed development within or adjacent to a listed Bush Forever Site? (You will need to contact the Bush Forever Office, at the Department for Planning and Infrastructure)

Yes

No

**If yes**, please indicate which Bush Forever Site is affected (site number and name of site where appropriate).

2.1.8 What is the condition of the vegetation at the site?

The proposal area has been subject to previous localised disturbance from seismic activities associated with the existing oilfield and with CO<sub>2</sub> injection monitoring for the approved Gorgon Gas Development. Vegetation abutting existing infrastructure may have also been subject to indirect disturbance. However, the vegetation in the area is considered largely undisturbed.

## 2.2 Fauna

2.2.1 Do you expect that any fauna or fauna habitat will be impacted by the proposal?

- (please tick)       Yes      **If yes**, complete the rest of this section.  
                          No      **If no**, go to the next section.

2.2.2 Describe the nature and extent of the expected impact.

The expected impacts on terrestrial and subterranean fauna from the proposal primarily relate to direct displacement or loss of relatively low numbers of fauna individuals, localised habitat loss or modification, and possibly increased competition between fauna individuals where animals relocate from the area. No impacts to population viability are expected.

The location of the development envelope has been selected to avoid key habitats and to be contiguous with existing infrastructure sites for the approved Gorgon Gas Development, to reduce the extent of overall indirect ('edge') effects to fauna. There are no Boodie warrens or raptor nests within or adjacent to the proposal envelope and the site is setback approximately 800 m (at its closest) from the coast (Figure 3 Attachment 2). The land involved is comprised of habitat types that are widely represented in the nature reserve outside of development areas and the development envelope is not critical habitat for any fauna species. None of the terrestrial faunal species on Barrow Island are restricted to habitat in the vicinity of the proposal, and all of the species known from the area have secure populations on Barrow Island.

Potential impacts to fauna will be avoided or managed using the proven mitigation and management measures developed for the approved Gorgon Gas Development. These include collecting and relocating fauna from vegetation prior to clearing, shepherding mobile fauna from the area during clearing of vegetation, and a range of controls to minimise the potential direct and indirect effects of earthworks, as described in the approved Terrestrial and Subterranean Environment Protection Plan (Chevron Australia 2010).

For the duration of the proposal's and approved Gorgon Gas Development's construction phase, the area of habitat available to the fauna that currently use the proposal area would be reduced by approximately 0.1%. Following construction, rehabilitation of areas no longer required by the approved Gorgon Gas Development will take place, allowing fauna to use these rehabilitated areas for habitat again.

Considered cumulatively with previous disturbance, clearing of 32 ha within the development envelope would represent negligible (<0.2 %) additional disturbance to fauna habitat on Barrow Island. The limited scale of disturbance and the presence of surrounding unaffected areas of similar habitat restrict the potential for adverse effects on Barrow Island's fauna populations.

Monitoring of fauna indicators during construction for the approved Gorgon Gas Development has confirmed the effectiveness of the clearing and earthworks management measures developed and described in relevant management plans and procedures. With the application of these management strategies, the detrimental effects (including cumulative) of the proposal would not be expected to compromise the representation, diversity or viability of any fauna species, population or assemblage on Barrow Island.

2.2.3 Are you aware of any recent fauna surveys carried out over the area to be disturbed by this proposal?

Yes

No

**If yes**, please attach a copy of any related survey reports and provide the date and name of persons / companies involved in the survey(s).

**If no**, please do not arrange to have any biological surveys conducted prior to consulting with the DEC.

Numerous fauna surveys have been undertaken on Barrow Island. Most recently, and with relevance to the proposal, these include:

- Bamford et al undertook surveys of mammals and reptiles in accordance with EPA Guidance Statement No 56 (EPA 2004) over an area of approximately 658 ha at Town Point, including over the land included in this proposal, for the Gorgon Gas Development EIS/ERMP (Chevron Australia 2005).
- Bamford and RPS BBG completed avifauna surveys over areas associated with the Gorgon Gas Development, including for landbirds over the area that is the subject of this proposal, for the Gorgon Gas Development EIS/ERMP (Chevron Australia 2005).
- Biota Environmental Services and RPS BBG surveyed short range endemics and terrestrial invertebrates within and/or in the vicinity of the Gorgon Gas Development infrastructure sites at Town Point for the Gorgon Gas Development EIS/ERMP (Chevron Australia 2005).
- Subterranean fauna surveys have been conducted within and/or in the vicinity of the Gorgon Gas Development infrastructure sites at Town Point by Biota Environmental Services. Sampling was undertaken in 2002 and 2003 to support the Environmental, Social and Economic Review of the Gorgon Gas Development (ChevronTexaco Australia 2003) and subsequently during a 19-month four-phase survey between November 2004 and July 2006, as described in the Gorgon Gas Development EIS/ERMP (Chevron Australia 2005). This sampling was undertaken at 46 sites for troglofauna and 37 sites for stygofauna.

For copies of previous survey reports related to the approved Gorgon Gas Development refer to Chevron Australia's website:

<http://www.chevronaustralia.com/ourbusinesses/gorgon/environmentalresponsibility/environmentalapprovals.aspx>

A range of subsequent fauna surveys have been conducted within and/or in the vicinity of approved Gorgon Gas Development sites to meet the requirements of monitoring programs developed by Chevron Australia in accordance with environmental conditions of approval for the Gorgon Gas Development.

This has included annual monitoring of threatened terrestrial fauna (including avifauna) and the completion of 10 phases of subterranean fauna sampling over the Town Point hinterland. Seventy five bores have been sampled for subterranean fauna within a 4km radius of the development envelope (40 for troglofauna and 68 for stygofauna).

The depth of fauna studies completed to date provides a robust understanding of the fauna habitats and taxa present on Barrow Island and the development envelope, including total population numbers and densities of key species

across different habitats. Of the habitats identified as 'significant' on Barrow Island (Chevron Australia 2012), only termite mounds are present in the development envelope, in similar numbers to other areas (Figure 3 Attachment 2). There are no Boodie warrens or raptor nests in the development envelope (Figure 3 Attachment 2) and the habitats and associated fauna that have been found, including threatened species, are generally widespread across Barrow Island. Based on the available information, the proposal area would support approximately 0.1% of the Barrow Island populations of the terrestrial fauna known from the site.

Chevron Australia has commissioned Biota Environmental Services to undertake a site - specific terrestrial and subterranean fauna study to confirm and/or update the fauna values of the proposal envelope identified by previous work, with reference to the expectations of contemporary EPA Guidance Statements. This has included field survey over the area in October 2013. The survey report is currently being finalised and will be provided to assist with the EPA's assessment once available, but is not expected to change the predicted assessment outcomes in this referral.

2.2.4 Has a search of DEC records for known occurrences of Specially Protected (threatened) fauna been conducted for the site?

Yes       No      (please tick)

2.2.5 Are there any known occurrences of Specially Protected (threatened) fauna on the site?

Yes       No      **If yes**, please indicate which species or communities are involved and provide copies of any correspondence with DEC regarding these matters.

Several species of terrestrial fauna and avifauna that are listed as Specially Protected under the *Wildlife Conservation Act 1950* (WA) have secure populations in widespread distributions on Barrow Island and are either known or expected to occur in the vicinity of the proposal area. There are no fauna or fauna habitats restricted to the development envelope and the species and habitats present form a subset of those found elsewhere in the Barrow Island Nature Reserve. Specially Protected terrestrial species from the area comprise:

- Barrow Island Euro (*Macropus robustus isabellinus*)
- Spectacled Hare-wallaby (*Lagorchestes conspicillatus conspicillatus*)
- Barrow Island Golden Bandicoot (*Isodon auratus barrowensis*)
- Boodie (*Bettongia lesueur*)
- White-winged Fairy-wren (*Malurus leucopterus edouardi*)

Barrow Island also supports a rich subterranean fauna that includes a number of Specially Protected species and has been designated a PEC by DPaW. Sampling for subterranean fauna within a 4 km radius of the development envelope indicates that two of these species are likely to occur in the area, namely *Draculoides bramstokeri* and *Speleostrophus nesiotes*. Both species have been recorded in other parts of Barrow Island, outside of the development

envelope, with *Draculoides bramstokeri* known to have a widespread distribution on the island.

As outlined in Section 2.2.3 of this Referral, Chevron Australia undertakes an ongoing threatened fauna monitoring program on Barrow Island, in consultation with DPaW. DPaW are also actively involved with aspects of the management undertaken for threatened fauna species in relation to the approved Gorgon Gas Development, including translocation of some threatened fauna that may be displaced by infrastructure as part of the Net Conservation Benefits program.

## 2.3 Rivers, Creeks, Wetlands and Estuaries

2.3.1 Will the development occur within 200 metres of a river, creek, wetland or estuary?

(please tick)       Yes      **If yes**, complete the rest of this section.  
 No      **If no**, go to the next section.

There are no permanent surface waterbodies in the vicinity of the land that is proposed to be used, but it is within 200 m of ephemeral drainage lines. Management of potential impacts to natural drainage regimes will be implemented consistent with the objectives, management measures, contingency measures, triggers and monitoring which are currently approved for the Gorgon Gas Development and have ensured the approved Gorgon Gas Development has not led to any unacceptable effects on hydrological processes or inland waters.

2.3.2 Will the development result in the clearing of vegetation within the 200 metre zone?

Yes       No      **If yes**, please describe the extent of the expected impact.

Vegetation may be cleared within 200 m of ephemeral drainage lines. However, management of potential impacts to natural drainage regimes and associated drainage line vegetation types will be implemented consistent with the objectives, management measures, contingency measures, triggers and monitoring which are currently approved for the Gorgon Gas Development and have ensured the approved Gorgon Gas Development has not led to any unacceptable effects on or inland waters or vegetation.

2.3.3 Will the development result in the filling or excavation of a river, creek, wetland or estuary?

Yes       No      **If yes**, please describe the extent of the expected impact.

2.3.4 Will the development result in the impoundment of a river, creek, wetland or estuary?

Yes       No      **If yes**, please describe the extent of the expected impact.

2.3.5 Will the development result in draining to a river, creek, wetland or estuary?

Yes       No      **If yes**, please describe the extent of the expected impact.

2.3.6 Are you aware if the proposal will impact on a river, creek, wetland or estuary (or its buffer) within one of the following categories? (please tick)

Conservation Category Wetland	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Unsure
Environmental Protection (South West Agricultural Zone Wetlands) Policy 1998	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Unsure
Perth's Bush Forever site	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Unsure
Environmental Protection (Swan & Canning Rivers) Policy 1998	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Unsure
The management area as defined in s4(1) of the <i>Swan River Trust Act 1988</i>	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Unsure
Which is subject to an international agreement, because of the importance of the wetland for waterbirds and waterbird habitats (e.g. Ramsar, JAMBA, CAMBA)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Unsure

## 2.4 Significant Areas and/ or Land Features

2.4.1 Is the proposed development located within or adjacent to an existing or proposed National Park or Nature Reserve?

Yes       No      **If yes**, please provide details.

Barrow Island is a Class A Nature Reserve vested in the Conservation Commission of Western Australia. The island is also an operating oilfield and the Barrow Island Act allocates uncleared land on Barrow Island for the establishment of projects to process or use natural gas and other petroleum from the Greater Gorgon Area. The proposal area will be within the allocation of uncleared land specified in the amendments to the Barrow Island Act currently being considered by Parliament.

2.4.2 Are you aware of any Environmentally Sensitive Areas (as declared by the Minister under section 51B of the EP Act) that will be impacted by the proposed development?

Yes       No      **If yes**, please provide details.

The Barrow Island Nature Reserve is classified as an Environmentally Sensitive Area under the Environmental Protection (Clearing of Native Vegetation) Regulations 2004 (WA).

However, the Barrow Island Act allocates uncleared land on Barrow Island for the establishment of projects to process or use natural gas and other petroleum from the Greater Gorgon Area. The proposal area will be within the allocation of

uncleared land specified in the amendments to the Barrow Island Act currently being considered by Parliament.

2.4.3 Are you aware of any significant natural land features (e.g. caves, ranges etc) that will be impacted by the proposed development?

Yes       No      **If yes**, please provide details.

## 2.5 Coastal Zone Areas (Coastal Dunes and Beaches)

2.5.1 Will the development occur within 300 metres of a coastal area?

(please tick)       Yes      **If yes**, complete the rest of this section.  
 No      **If no**, go to the next section.

2.5.2 What is the expected setback of the development from the high tide level and from the primary dune?

2.5.3 Will the development impact on coastal areas with significant landforms including beach ridge plain, cusped headland, coastal dunes or karst?

Yes       No      **If yes**, please describe the extent of the expected impact.

2.5.4 Is the development likely to impact on mangroves?

Yes       No      **If yes**, please describe the extent of the expected impact.

## 2.6 Marine Areas and Biota

2.6.1 Is the development likely to impact on an area of sensitive benthic communities, such as seagrasses, coral reefs or mangroves?

Yes       No      **If yes**, please describe the extent of the expected impact.

2.6.2 Is the development likely to impact on marine conservation reserves or areas recommended for reservation (as described in *A Representative Marine Reserve System for Western Australia*, CALM, 1994)?

Yes       No      **If yes**, please describe the extent of the expected impact.

2.6.3 Is the development likely to impact on marine areas used extensively for recreation or for commercial fishing activities?

Yes

No

**If yes**, please describe the extent of the expected impact, and provide any written advice from relevant agencies (e.g. Fisheries WA).

## 2.7 Water Supply and Drainage Catchments

2.7.1 Are you in a proclaimed or proposed groundwater or surface water protection area?

(You may need to contact the Department of Water (DoW) for more information on the requirements for your location, including the requirement for licences for water abstraction. Also, refer to the DoW website)

Yes

No

**If yes**, please describe what category of area.

2.7.2 Are you in an existing or proposed Underground Water Supply and Pollution Control area?

(You may need to contact the DoW for more information on the requirements for your location, including the requirement for licences for water abstraction. Also, refer to the DoW website)

Yes

No

**If yes**, please describe what category of area.

2.7.3 Are you in a Public Drinking Water Supply Area (PDWSA)?

(You may need to contact the DoW for more information or refer to the DoW website. A proposal to clear vegetation within a PDWSA requires approval from DoW.)

Yes

No

**If yes**, please describe what category of area.

2.7.4 Is there sufficient water available for the proposal?

(Please consult with the DoW as to whether approvals are required to source water as you propose. Where necessary, please provide a letter of intent from the DoW)

Yes

No

(please tick)

2.7.5 Will the proposal require drainage of the land?

Yes

No

**If yes**, how is the site to be drained and will the drainage be connected to an existing Local Authority or Water Corporation drainage system? Please provide details.

2.7.6 Is there a water requirement for the construction and/ or operation of this proposal?

(please tick)

Yes

**If yes**, complete the rest of this section.

No

**If no**, go to the next section.

Water requirements for this proposal will be met via existing approved Gorgon Gas Development infrastructure and allocations. There will be no additional water requirement for this proposal beyond that for the approved Gorgon Gas Development.

2.7.7 What is the water requirement for the construction and operation of this proposal, in kilolitres per year?

2.7.8 What is the proposed source of water for the proposal? (e.g. dam, bore, surface water etc.)

## 2.8 Pollution

2.8.1 Is there likely to be any discharge of pollutants from this development, such as noise, vibration, gaseous emissions, dust, liquid effluent, solid waste or other pollutants?

(please tick)  Yes **If yes**, complete the rest of this section.

No **If no**, go to the next section.

2.8.2 Is the proposal a prescribed premise, under the Environmental Protection Regulations 1987?

(Refer to the EPA's *General Guide for Referral of Proposals to the EPA under section 38(1) of the EP Act 1986* for more information)

Yes  No **If yes**, please describe what category of prescribed premise.

2.8.3 Will the proposal result in gaseous emissions to air?

Yes  No **If yes**, please briefly describe.

Low volumes of gaseous emissions will be generated by vehicles and construction equipment associated with vegetation clearing and earthworks. However, the provision of sufficient cleared land for construction and operations support facilities/activities to be located in close proximity to the Gas Treatment Plant site is expected to result in a reduction in overall Gorgon Gas Development construction duration and transport requirements compared with use of more distant sites. This is expected to result in a corresponding reduction of overall Gorgon Gas Development gaseous emissions.

2.8.4 Have you done any modelling or analysis to demonstrate that air quality standards will be met, including consideration of cumulative impacts from other emission sources?

Yes  No **If yes**, please briefly describe.

The proposal has limited potential to affect air quality, with emissions essentially restricted to temporary dust and vehicle/machinery exhaust fumes associated

with vegetation clearing and earthworks. Monitoring as part of the Gorgon Dust Impact Vegetation Monitoring Program indicates that plant health has not been significantly affected by dust generated by construction of the approved Gorgon Gas Development (Chevron Australia 2012a) and there are no other dust-sensitive users of adjacent areas.

This proposal will use (redeploy) the same workforce/equipment currently engaged on construction of the approved Gorgon Gas Development. Consequently, the proposal will represent only an incremental contribution to cumulative emissions. A reduction of overall gaseous emissions associated with the Gorgon Gas Development is expected through the construction and operational efficiencies delivered by this proposal.

2.8.5 Will the proposal result in liquid effluent discharge?

Yes       No      **If yes**, please briefly describe the nature, concentrations and receiving environment.

Liquid wastes, including domestic effluent (grey water and sewage), will be generated during the vegetation clearing and earthworks associated with the proposal.

All effluent associated with the proposal will be comingled with approved Gorgon Gas Development waste streams and discharged in accordance with the approved waste management systems, plans and procedures for the approved Gorgon Gas Development. This includes appropriate treatment prior to reuse or discharge of liquid effluent in accordance with existing EP Act (Part V) licensing.

The proposal will not introduce any new liquid effluent streams and, apart from any effluent generated during the additional vegetation clearing and earthworks, the effluent associated with construction and operation of the facilities that may be sited in the proposal area were encompassed in the assessment and management of the approved Gorgon Gas Development.

Cumulative liquid effluent discharge volumes are expected to remain within current EP Act licence limits. The potential reduction in overall construction duration for the Gorgon Gas Development that may result from the proposal would result in a reduction in total liquid effluent volumes.

2.8.6 If there is likely to be discharges to a watercourse or marine environment, has any analysis been done to demonstrate that the State Water Quality Management Strategy or other appropriate standards will be able to be met?

Yes       No      **If yes**, please describe.

N/A – the proposal does not involve any discharges to a watercourse or the marine environment.

2.8.7 Will the proposal produce or result in solid wastes?

Yes       No      **If yes**, please briefly describe the nature, concentrations and disposal location/ method.

The proposal will generate relatively minor volumes of solid wastes, potentially including plastics, packaging, scrap metal, waste pipe, concrete, and drums and containers. All wastes will be managed consistent with the approved waste management systems, plans and procedures for the approved Gorgon Gas Development. This will include segregation, collection and transfer of all solid wastes from Barrow Island to licensed treatment, recovery and/or disposal sites on the mainland, in accordance with existing Gorgon Gas Development approvals.

The proposal will not introduce any new waste streams and, apart from any wastes generated during the additional vegetation clearing and earthworks, the wastes associated with construction and operation of the facilities that may be sited in the proposal area were encompassed in the assessment and management of the approved Gorgon Gas Development. The potential reduction in overall construction duration for the Gorgon Gas Development that may result from the proposal would result in a reduction in total solid waste volumes.

2.8.8 Will the proposal result in significant off-site noise emissions?

Yes       No      **If yes**, please briefly describe.

The proposal has the potential to result in significant off-site noise emissions at times during the construction phase. These noise emissions are predominantly associated with earthworking activities. Noise levels from the works will comply with levels prescribed by relevant legislation.

There are no noise sensitive premises in the vicinity of the development envelope.

The additional noise contributed by this proposal to prevailing noise levels resulting from the construction and operation of the approved Gorgon Gas Development is considered negligible. Overall construction noise emissions from the Gorgon Gas Development will potentially be reduced by the proposal through a reduction in handling and transport of materials and/or a reduction in duration of the construction phase through improved efficiencies.

2.8.9 Will the development be subject to the Environmental Protection (Noise) Regulations 1997?

Yes       No      **If yes**, has any analysis been carried out to demonstrate that the proposal will comply with the Regulations?

Please attach the analysis.

The Environmental Protection (Noise) Regulations do not apply on Barrow Island as Barrow Island is considered to be only one premise for the purposes of the Noise Regulations. The Regulations only apply where noise emissions from one premise affect another premise. There are no other premises affected by noise emitted from Barrow Island.

2.8.10 Does the proposal have the potential to generate off-site, air quality impacts, dust, odour or another pollutant that may affect the amenity of residents and other

“sensitive premises” such as schools and hospitals (proposals in this category may include intensive agriculture, aquaculture, marinas, mines and quarries etc.)?

Yes

No

**If yes**, please describe and provide the distance to residences and other “sensitive premises”.

There are no sensitive premises in the vicinity of the development envelope. The nearest workforce accommodation is located at the Construction Village (approximately 2 km south) and the Operations Workforce Accommodation/ Barrow Island Camp (approximately 2.5 km south). These premises are not predicted to be affected due to their distance from the development envelope.

2.8.11 If the proposal has a residential component or involves “sensitive premises”, is it located near a land use that may discharge a pollutant?

Yes

No

Not Applicable

**If yes**, please describe and provide the distance to the potential pollution source

The proposal does not have a residential component or involve any “sensitive premises”.

## 2.9 Greenhouse Gas Emissions

2.9.1 Is this proposal likely to result in substantial greenhouse gas emissions (greater than 100 000 tonnes per annum of carbon dioxide equivalent emissions)?

Yes

No

**If yes**, please provide an estimate of the annual gross emissions in absolute and in carbon dioxide equivalent figures.

2.9.2 Further, if yes, please describe proposed measures to minimise emissions, and any sink enhancement actions proposed to offset emissions.

## 2.10 Contamination

2.10.1 Has the property on which the proposal is to be located been used in the past for activities which may have caused soil or groundwater contamination?

Yes

No

Unsure

**If yes**, please describe.

Barrow Island currently supports an oil production operation, however, the area involved in this proposal has never been used for production, processing or storage activities.

2.10.2 Has any assessment been done for soil or groundwater contamination on the site?

Yes

No

**If yes**, please describe.

No site-specific contamination investigations have been completed for the proposed site. However, no contamination is expected as the site has experienced no previous industrial use.

2.10.3 Has the site been registered as a contaminated site under the *Contaminated Sites Act 2003*? (on finalisation of the CS Regulations and proclamation of the CS Act)

Yes       No      **If yes**, please describe.

Barrow Island in its entirety is currently classified as 'Contaminated – remediation required' under the Contaminated Sites Act 2003 (WA) due to potential contamination associated with oilfield operations. However, the specific individual sites on Barrow Island that are subject to remediation do not coincide with the areas involved in this proposal.

## 2.11 Social Surroundings

2.11.1 Is the proposal on a property which contains or is near a site of Aboriginal ethnographic or archaeological significance that may be disturbed?

Yes       No       Unsure      **If yes**, please describe.

The Western Australian Department of Indigenous Affairs (DIA) Register of Aboriginal Sites lists 13 archaeological sites but no ethnographic sites for Barrow Island. Archaeologists, anthropologists and indigenous stakeholders examined areas associated with the approved Gorgon Gas Development in 2006 and 2007 and no new indigenous cultural sites or materials were discovered in areas likely to be disturbed (Chevron Australia 2008).

Management of earthworks to ensure the protection of heritage values on Barrow Island has been developed for the approved Gorgon Gas Development as described in the approved Aboriginal Cultural Heritage Management Plan (Chevron Australia 2009a). This includes a site-specific indigenous heritage survey prior to clearing, as well as measures to ensure that any materials discovered during earthworks are appropriately recorded, reported and protected. The pre-construction surveys to date, which have included parts of the development envelope and adjacent infrastructure sites, have not discovered any indigenous cultural sites or materials. Pre-construction surveys will be similarly undertaken over the proposal area prior to the commencement of clearing and the management strategies described in the approved Aboriginal Cultural Heritage Management Plan will be applied during this proposal.

The proposal is not expected to impact on any recorded cultural heritage sites and does not contain any of the landforms considered to be highly prospective for cultural heritage material. There are no lodged Native Title claims over Barrow Island.

2.11.2 Is the proposal on a property which contains or is near a site of high public interest (e.g. a major recreation area or natural scenic feature)?

Yes       No      **If yes**, please describe.

Barrow Island and parts of surrounding waters are nature reserves. They also support an operating oilfield, the approved Gorgon Gas Development and the Barrow Island port. Because of its remote location, combined with the fact that there is no public access, Barrow Island and surrounding waters do not receive high public use.

2.11.3 Will the proposal result in or require substantial transport of goods, which may affect the amenity of the local area?

Yes       No      **If yes**, please describe.

There is no residential, recreational or tourism land use on Barrow Island, with access generally restricted to workforce personnel and staff of the DPAW. The proposal will have minimal requirement for goods, and these will be met via existing logistic arrangements for the approved Gorgon Gas Development. No additional transport movements to or from the island will be required. Consequently, the proposal does not have the potential to affect local social amenity values.

The proposal is expected to reduce the overall construction duration of the approved Gorgon Gas Development as well as the transportation requirements, including to and from the island that occurs within it. Consequently, any potential effects on local amenity from the transport of goods associated with the approved Gorgon Gas Development would be correspondingly reduced.

### 3. PROPOSED MANAGEMENT

#### 3.1 Principles of Environmental Protection

3.1.1 Have you considered how your project gives attention to the following Principles, as set out in section 4A of the EP Act? (For information on the Principles of Environmental Protection, please see EPA Position Statement No. 7, available on the EPA website)

- |  |   |                             |
|--|---|-----------------------------|
| 1. The precautionary principle.  | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| 2. The principle of intergenerational equity.  | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| 3. The principle of the conservation of biological diversity and ecological integrity. | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| 4. Principles relating to improved valuation, pricing and incentive mechanisms.        | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| 5. The principle of waste minimisation.  | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |

Chevron Australia has reviewed and considered the Principles, and has planned and will implement the proposal consistent with them (Table 4 Attachment 2).

3.1.2 Is the proposal consistent with the EPA's Environmental Protection Bulletins/Position Statements and Environmental Assessment Guidelines/Guidance Statements (available on the EPA website)?

Yes       No

## 3.2 Consultation

3.2.1 Has public consultation taken place (such as with other government agencies, community groups or neighbours), or is it intended that consultation shall take place?

Yes

No

**If yes**, please list those consulted and attach comments or summarise response on a separate sheet.

Stakeholder consultation regarding the issues associated with development of gas processing facilities on Barrow Island commenced early in 2002, continued throughout the environmental approval processes for the Gorgon Gas Development and remains ongoing in the current construction phase. A broad range of government, industry, scientific and community representatives have been involved in this process.

Extensive public and stakeholder input on the environmental impacts and management of gas development on Barrow Island has also been provided via the environmental review (including appeal) processes for the approved Gorgon Gas Development, which have included:

- Environmental Social and Economic Review (2002-2003)
- Environmental Review and Management Program/Environmental Impact Statement (2003-2007)
- Public Environmental Review (2008-2009)

For this proposal, a specific stakeholder engagement program has been developed and initiated, which includes appellants on the previous Gorgon Gas Development approval, all relevant Decision Making Authorities (DMAs), environmental Non-Government Organisations (NGOs), indigenous stakeholders, industry associations, and representatives of local, state and federal governments. Consultation with stakeholders is currently intended to include (but not necessarily be limited to):

### *Commonwealth Government*

- Department of Resources, Energy and Tourism
- Department of the Environment

### *State Government*

- Relevant Members of Parliament
- Conservation Commission
- Department of Aboriginal Affairs
- Department of Environmental Regulation
- Department of Lands
- Department of Mines and Petroleum
- Department of Parks and Wildlife
- Department of State Development
- Office of the Environmental Protection Authority
- Pilbara Development Commission
- Western Australian Museum

### *Local Government*

- Shire of Ashburton
- Shire of Roebourne

*Non-Government organisations*

- Cape Conservation Group
- Conservation Council of Western Australia
- DomGas Alliance
- Gorgon Community Reference Group
- Relevant Indigenous Groups
- The Wilderness Society of Western Australia
- World Wide Fund for Nature Australia

*Industry Groups and Representatives*

- Australian Petroleum Production and Exploration Association
- Chamber of Commerce and Industry of WA
- Chamber of Minerals and Energy

*Independent Scientific Representatives*

- Gorgon Marine Turtle Expert Panel
- Gorgon Quarantine Expert Panel

The outcomes of consultation will be used to inform the detailed planning and implementation of the proposal. Consultation with key DMAs has occurred and a detailed account of all the stakeholders who were consulted, how they were consulted, the feedback received as part of this consultative process and Chevron Australia's response will be provided to the EPA to support the assessment of this proposal once the consultation has progressed further, but is not expected to change the predicted assessment outcomes in this referral.

## REFERENCES

- Astron Environmental Services. 2002. *Preliminary Vegetation and Flora Survey of Proposed Gorgon Development Barrow Island, October 2002*. Report prepared for Chevron Australia, Perth, Western Australia.
- Astron Environmental Services. 2008. *Barrow Island Gorgon Initial Works Flora and Vegetation Survey*. Unpublished report prepared for Chevron Australia, Perth, Western Australia.
- Bamford, M. J. and Moro, D. 2011. Nest site selection of the White-winged Fairy-wren *Malurus leucopterus edouardi* on Barrow Island. *Corella* 35:84–86.
- Buckley, R.C. 1983. The Flora and Vegetation of Barrow Island, Western Australia. *Journal of the Royal Society of Western Australia*, 66: 3.
- Chevron Australia. 2005. *Draft Gorgon Environmental Impact Statement/Environmental Review and Management Programme for the Proposed Gorgon Development*. Chevron Australia, Perth, Western Australia.
- Chevron Australia. 2008. *Gorgon Gas Development Revised and Expanded Proposal Public Environmental Review*. Chevron Australia, Perth, Western Australia.
- Chevron Australia. 2009. *Gorgon Gas Development and Jansz Feed Gas Pipeline: Post-construction Rehabilitation Plan*. Chevron Australia, Perth, Western Australia.
- Chevron Australia. 2009a. *Gorgon Gas Development and Jansz Feed Gas Pipeline: Aboriginal Cultural Heritage Management Plan*. Chevron Australia, Perth, Western Australia.
- Chevron Australia. 2010. *Gorgon Gas Development and Jansz Feed Gas Pipeline: Terrestrial and Subterranean Environment Protection Plan*. Chevron Australia, Perth, Western Australia.
- Chevron Australia. 2011. *Referral of Proposed Action (under the Environmental Protection and Biodiversity Conservation Act 1999) – Gorgon Gas Development Fourth Train Expansion Proposal*. 27 April 2011. Perth, Western Australia.
- Chevron Australia. 2012. *Gorgon Gas Development and Jansz Feed Gas Pipeline Terrestrial and Subterranean Baseline State and Environmental Impact Report*. Chevron Australia, Perth, Western Australia.
- Chevron Australia. 2012a. *Gorgon Gas Development: Ministerial Implementation Statement No. 800, EPBC Reference: 2003/1294 (as amended) and EPBC Reference: 2008/4178 Environmental Performance Report 2010*. Chevron Australia, Perth, Western Australia.
- Mattiske, E.M. and Associates. 1993. *Flora and Vegetation, Barrow Island*. Unpublished report prepared for West Australian Petroleum Pty Limited, Perth, Western Australia.
- RPS Bowman Bishaw Gorham and Mattiske Consulting. 2005. *Gorgon Development on Barrow Island Technical Report – Flora and Vegetation*. Unpublished report prepared for ChevronTexaco Australia, Perth, Western Australia.