

# EPBC Act referral



Australian Government

Department of Agriculture, Water and the Environment

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<b>Title of proposal</b>	<b>2021/9053 - Marinus Link underground and subsea electricity interconnector cable</b>
<b>Section 1</b>	
<b>Summary of your proposed action</b>	
<b>1.1 Project industry type</b>	Energy Generation and Supply (renewable)
<b>1.2 Provide a detailed description of the proposed action, including all proposed activities</b>	
<p>Marinus Link Pty Ltd (MLPL, the proponent) is seeking to construct a high voltage direct current (HVDC) electricity interconnector between Tasmania and Victoria to be known as Marinus Link, to allow for the continued trading, transmission and distribution of electricity within the National Energy Market (NEM). Marinus Link Pty Ltd is a wholly-owned subsidiary of Tasmanian Networks Pty Ltd (TasNetworks), the state-owned transmission and distribution network service provider for the Tasmanian electricity network. TasNetworks has jurisdictional responsibility for transmission system planning in Tasmania under National Electricity Law.</p> <p>Marinus Link (the proposed action) is the transmission infrastructure required to provide a second interconnector from Tasmania, across Bass Strait to Victoria, up to and including the converter station/s in Tasmania and Victoria, as shown in Figure 1. The interconnector will provide a second link between the Tasmanian and Victorian electricity grids enabling energy transfer between these regions in the NEM.</p> <p>Key components of the proposed action can be summarised as follows:</p> <ul style="list-style-type: none"><li>• The preferred technology for Marinus Link is two 750 megawatt (MW) symmetrical monopoles using <math>\pm 320</math> kV, cross-linked polyethylene (XLPE) insulated cables and voltage source converter (VSC) technology. Each symmetrical monopole will comprise two identical size power cables and a fibre-optic communications cable.</li><li>• In Tasmania, a converter station will be located near the coast at Heybridge near Burnie, which will connect to the Tasmanian transmission network at 220 kV alternating current (AC). The converter station compound may include a substation.</li><li>• Approximately 250km of subsea HVDC cable is required to cross Bass Strait. Two 750MW cables approximately 2km apart (to protect against damage to both cables from one event) will traverse Bass Strait, with two shore crossings at Heybridge in Tasmania.</li><li>• In Victoria, a single shore crossing will be located at Waratah Bay with underground cable for approximately 90km to a converter station site to be located in the greater Hazelwood area of the Latrobe Valley (the converter station compound may include a substation). Potential converter station sites are being investigated adjacent to the existing Hazelwood Terminal Station and in the Driffield area.</li><li>• A 20m-wide easement will be sought to accommodate the underground cables and provide space for future cable replacement and/or additional transmission capacity (subject to future approval). Following the completion of construction works, the easement will be returned to the previous land use or as agreed with the landowner, with limited restrictions on use to avoid impacts to project infrastructure (e.g. no deep-ripping of soils).</li></ul> <p>For the purpose of this referral, the action area is the area encompassing the proposed converter station sites, transition station, and cable route (with 110m buffer either side from centreline). It is proposed that access tracks and laydown areas be located within the action area, however there is the potential for some of these to be located outside of this area. These will be identified and assessed prior to construction.</p> <p>Geotechnical and other investigations to support detailed design do not form part of this referral. Any removal of native vegetation associated these investigations will be to the minimum extent practicable.</p> <p>The final location of Marinus Link infrastructure will likely be aligned with the proposed route shown in Figure 2 to Figure 4, however detailed environmental and engineering investigations, and landowner negotiations will be completed to confirm the final placement of the infrastructure, with the flexibility to adjust the cable alignment if needed. This flexibility will allow the ultimate siting and design of the cable to respond to values present in the favourable route easement and avoid potential significant impacts where possible.</p> <p>Land cables will be laid within separate trenches with a nominal width of 2m and minimum depth of 1.5m. The land cables will be directly laid in the trenches or installed in conduits in the trenches. A linear strip up to 36m wide will be disturbed in laying the land cables. Temporary access and temporary laydown areas will be required. Where possible existing roads and tracks will be used for access; for example, farm access tracks or plantation forestry tracks.</p> <p>Land cables will be installed using horizontal directional drilling (HDD) or other trenchless construction methods at targeted crossing sites such as major waterways, sealed roads and areas of roadside vegetation, where practicable and where</p>	



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geotechnical conditions permit. Where geotechnical conditions are not favourable, open trenching or a hybrid method comprising short HDD and trenching may be used to construct the crossings. A larger construction area (approximately 60m by 60m either side of the feature) is required to construct road and watercourse crossings using HDD.

Land cables will be supplied in lengths ranging from 800m to 1.3km depending on the ultimate cable design (copper or aluminium conductor). The cable lengths will be joined at joint bays which comprise a concrete pit approximately 12m long by 2.5m wide by 2.5m deep, buried at least 0.5m below the surface. Where possible, joint bays will be located adjacent to boundary fences or other features as agreed with landowners and land managers to reduce impacts on land uses.

It is proposed the shore crossings will be constructed using HDD which will extend up to 1 km offshore or to approximately 10m water depth. The subsea cables will be installed in ducts inserted into the HDD boreholes. Up to 1ha is required for the shore crossing HDD drill pad, which will be located in cleared private land behind the dunes.

The land and sea cables are expected to join in a transition station in Victoria approximately 1km from the coast. The transition station is likely to be a site/compound of approximately 70m by 50m in size, containing building/s in keeping with the height of the adjacent building. The sea cable will connect directly into the converter station in Tasmania.

An area up to 10 m wide on the seabed is likely to be disturbed for the subsea cable installation, with a trench 1m to 2m wide and up to 1.5m deep to be established.

The converter station compounds will have a nominal footprint of 260m by 230m (see Section 1.6) and will likely comprise transformers, switchgear, closed stormwater runoff systems with oil interceptors, a control room, a large building containing the HVAC/HVDC converter technology and potentially a substation.

### 1.3 What is the extent and location of your proposed action?

See Appendix B

### 1.5 Provide a brief physical description of the property on which the proposed action will take place and the location of the proposed action (e.g. proximity to major towns, or for off-shore actions, shortest distance to mainland)

In north-west Tasmania, the converter station will be located near Heybridge, at the corner of Bass Highway and Minna Road. Two subsea cables will extend from the converter station across Bass Strait to Waratah Bay in Victoria.

The action area intersects the Waratah Bay–Shallow Inlet Coastal Reserve. It avoids the Shallow Inlet Marine and Coastal Park (2 km east of the route), Wilsons Promontory National Park (8 km east of the route), Wilsons Promontory Marine National Park (12 km east of the route) and Cape Liptrap Coastal Park (2 km west of the route).

From the transition station in Victoria the land cable will run northwest to the Tarwin River valley which it follows north to the Strzelecki Ranges. The route crosses the ranges between Dumbalk and Mirboo North before descending to the Latrobe Valley where it turns northeast towards the greater Hazelwood area.

### 1.6 What is the size of the proposed action area development footprint (or work area) including disturbance footprint and avoidance footprint (if relevant)?

The total action area is approx. 12,340 ha in size. However the indicative area of disturbance (AoD) for construction is approx. 854 ha. The indicative AoD and the approximate development footprint (DF) of key infrastructure is outlined below:

- Tasmanian converter station: AoD 10ha, DF 260m by 230m
- Subsea cables: AoD 250km long, 10m wide on the seabed for each cable, approximately 2km apart in Bass Strait reducing to approximately 130m nearshore. Cables will be mostly buried beneath the seabed
- Shore crossings: AoD 1ha drill pad on land, DF minimum 20m easement for cables
- Transition station: AoD 70m by 50m, DF 70m by 50m
- Access tracks: AoD 10m wide, DF to be confirmed as some access tracks will be retained for maintenance, others will be removed
- HDD drill pads: AoD 60m by 60m, DF minimum 20m easement for cables
- Underground cables: AoD 90km long with 20-36m wide construction corridor, DF 20m wide easement
- Victorian converter station: AoD 16ha, DF 260m by 230m

### 1.7 Proposed action location

Other - Marinus Link traverses multiple land parcels in Tasmania and Victoria (see Figure 1).



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<b>1.8 Primary jurisdiction</b>		Victoria
<b>1.9 Has the person proposing to take the action received any Australian Government grant funding to undertake this project?</b>		
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
<b>1.9.1 Provide detail</b>		
<p>Marinus Link Pty Ltd is a wholly-owned subsidiary of Tasmanian Networks Pty Ltd (TasNetworks), a Tasmanian State-owned corporation. TasNetworks has received funding from the Commonwealth Government through the Australian Renewable Energy Agency (ARENA) (\$10 million) for a feasibility and business case assessment.</p> <p>In March 2019, the Commonwealth Government (via the then Department of the Environment and Energy) provided a grant of \$56 million to the State of Tasmania to progress the project and Hydro Tasmania's Battery of the Nation proposal. The State has committed \$50 million of this grant to TasNetworks to progress the Marinus Link and North West Transmission Developments (NWTD) projects.</p> <p>In 2020, the Commonwealth Government committed a further \$250 million to support the development of Marinus Link and other interconnector projects (such as Project EnergyConnect and VNI West) identified in the Australian Energy Market Operator's (AEMO) 2020 Integrated System Plan.</p>		
<b>1.10 Is the proposed action subject to local government planning approval?</b>		
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
<b>1.10.1 Is there a local government area and council contact for the proposal?</b>		
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
<b>1.11 Provide an estimated start and estimated end date for the proposed action</b>	Start Date	01/07/2024
	End Date	31/12/2071
<b>1.12 Provide details of the context, planning framework and state and/or local Government requirements</b>		
<p>Marinus Link passes through three jurisdictions (Tasmania, Commonwealth marine area, and Victoria) and triggers a range of environmental, planning and heritage assessment and approval requirements.</p> <p>In addition to this referral, a referral has been lodged with the Victorian Department of Environment, Land, Water and Planning (DELWP) pursuant to the Environmental Effects Act 1978 (Vic) (EE Act). The proponent is seeking to establish a coordinated assessment process between DELWP, DAWE and the Tasmanian Environment Protection Authority (EPA), with a single Environmental Impact Statement (EIS)/Environment Effects Statement (EES) prepared to address the assessment criteria set by each jurisdiction.</p> <p>It is proposed that a planning scheme amendment (PSA) pursuant to the Planning and Environment Act 1987 (Vic) (P&amp;E Act) will be completed for Marinus Link as a utility installation, providing a single, consolidated planning control for the proposed action under an Incorporated Document. Victorian processes allow for a PSA to be prepared by the Minister for Planning as planning authority and exhibited and reviewed by a panel in conjunction with an Environment Effects Statement under the EE Act. This approach aligns the environmental impact assessment and planning approvals processes.</p> <p>The Marine and Coastal Act 2018 (Vic) (M&amp;C Act) manages the use and development of the coastal and marine environments including the seabed. A consent is required to develop coastal Crown land and the seabed. The Act applies to land from the outer limit of Victorian waters at 3 nautical miles, to 200 m inland of the high-water mark. A consent under the M&amp;C Act will be sought for the project in Victorian waters and shore crossing at Waratah Bay. Consent was issued under the M&amp;C Act for marine geophysical and geotechnical investigations for the project in February 2020.</p> <p>Two Cultural Heritage Management Plans (CHMPs) are required under the Aboriginal Heritage Act 2006 (Vic). Two notices of intent have been submitted for the CHMPs. The CHMP for the northern section of the project will be assessed by the Registered Aboriginal Party in that area, the Gunaikurnai Land and Waters Aboriginal Corporation. The second CHMP for the southern section of the project will be assessed by First Peoples - State Relations (formerly Aboriginal Victoria) as there is no Registered Aboriginal Party.</p> <p>In Tasmania, Indigenous heritage matters are to be assessed under the Aboriginal Heritage Act 1975 (Tas).</p> <p>The converter station in Tasmania will require development approval from Burnie City Council under the Land Use Planning</p>		



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and Approvals Act 1994 (Tas) (LUPAA). MLPL will prepare a development application for the converter station, which may then be assessed by the EPA Board under section 24 of the Environmental Management and Pollution Control Act 1994 (Tas) (EMPCA).

There is potential that exemptions to LUPAA under section 57 of the Electricity Supply Industry Act 1995 (Tas) (ESI Act), could apply to the underground cable from the converter stations to the extent of the Tasmanian Planning Scheme. The exemptions apply to:

- Licenced electricity entities;
- Work that is not regarded as development under LUPAA; and
- Work that is classified as 'work of minor environmental impacts', which includes the laying, removal, repair, maintenance or modification of any underground cable for the distribution or transmission of electricity.

MLPL has obtained the licence under the ESI Act to utilise this exemption.. Where exemption is applied under LUPAA, the underground cables may still be assessed by the EPA Board under section 27 of EMPCA.

Secondary approvals will also be required such as permits under the Threatened Species Protection Act 1995 (Tas) and Flora and Fauna Guarantee Act 1988 (Vic). The secondary approvals required for the project will be determined through engagement with relevant government departments and the necessary approvals secured prior to construction in accordance with relevant legislation.

#### **1.13 Describe any public consultation that has been, is being or will be undertaken, including with Indigenous stakeholders**

The first phase of engagement took place over an 18-month period between July 2018 and December 2019. This phase was largely focused around raising awareness of the project and informing stakeholders about the Feasibility Study, Business Case Assessment and RIT-T processes.

In November 2020, the proponent started engagement with Gippsland landowners to introduce Marinus Link and consult around the proposed route. Engagement focused on face-to-face meetings, with several landowners also taking the opportunity to drop-in at the public community information sessions and webinar.

Engagement with the broader Victorian public started in early 2021 and focused on raising awareness of the project, capturing feedback on the proposed route and promoting the benefits for Victoria. Awareness raising activities included four face-to-face information sessions, a stall at the Farm World Exhibition, a community webinar and the launch of an interactive map where community members could leave feedback.

Community engagement in Tasmania began with engagement sessions held throughout September 2018 in Hobart and Burnie. These were accompanied by meetings with local councils on potential routes, a Tasmanian Chamber of Commerce Roadshow to promote jobs and economic growth, the RIT-T community engagement process, presentations to the TasNetworks Customer Council, and a presentation to Revenue Reset Engagement Forums in Hobart and Launceston.

Preliminary feedback from these sessions focused on job opportunities, impact to private land, and increases to customer billing, with many participants interested to see further economic modelling to understand the project impacts. MLPL recognises the importance of engaging early to understand what is important to stakeholders and the local community. Early engagement allows issues to be addressed during the development phase of the project and can lead to less issues arising during construction. The project team has been engaging with stakeholders and the community in both Tasmania and Victoria since July 2018. The objectives of this phase of engagement were to:

- Raise awareness about the project
- Support the Feasibility Study, Business Case Assessment and Regulatory Investment for Transmission (RIT-T) processes
- Provide information about the preferred route for Marinus Link and why it was chosen and consult with landowners to minimise impacts on their properties.

Engagement throughout this phase included meetings, workshops and information sessions as well as regular print and digital communications. To date, the project has consulted with:

- Local councils in Tasmania (Burnie City Council) and Victoria (Latrobe City Council and South Gippsland Shire Council)
- Latrobe Valley Authority, Cradle Coast Authority
- Indigenous groups in Victoria and Tasmania including native title holders and Traditional Owners. Groups engaged with to date include:
  - In Victoria:
    - Gunaikurnai Land and Waters Aboriginal Corporation
    - Bunurong Land Council Aboriginal Corporation
    - Boonwurrung Land and Sea Council Aboriginal Corporation
  - In Tasmania:



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- Six Rivers Aboriginal Corporation
- Circular Head Aboriginal Corporation
- Aboriginal Elders Council of Tasmania
- Landowners impacted by the proposed route

MLPL has also consulted with a range of other stakeholders including state government agencies, economic development and land management authorities and industry bodies. Engagement will continue with these stakeholders throughout the projects. Stakeholders include:

- Gippsland Trade and Labour Council
- Australian Manufacturing Workers' Union
- Industry Capability Network
- Committee of Gippsland
- Victorian Farmers Federation
- LaTrobe Valley Authority
- Social traders
- Regional Development Australia – Gippsland Committee
- GROW Gippsland
- Victorian Fisheries Authority
- Seafood Industry Victoria
- South East Trawl Fishing Industry Association
- AusNet
- Star of the South

**1.14 Describe any environmental impact assessments that have been or will be carried out under Commonwealth, State or Territory legislation including relevant impacts of the project**

The proposed action is likely to require an environmental impact statement or equivalent level of assessment in Tasmania, Commonwealth marine area and Victoria.

Desktop baseline studies (including preliminary impact assessment) have been completed to characterise the terrestrial and marine environmental and heritage values within the survey corridor and to support this referral and referrals/notices required under Tasmanian and Victorian legislation. The results of these investigations have been summarised in Section 2 and Section 3 of this referral.

Further detailed assessments will be completed over the proposed survey area to confirm the ultimate siting and design of Marinus Link infrastructure. These assessments will inform detailed technical studies to be completed to support preparation of an environmental impact statement or equivalent. The scope of the studies will be informed by the terms of reference issued by each government.

**1.15 Is this action part of a staged development (or a component of a larger project)?**

☐ Yes ☒ No

**1.16 Is the proposed action related to other actions or proposals in the region?**

☒ Yes ☐ No

**1.16.1 Identify the nature/scope and location of the related action (Including under the relevant legislation)**

Tasmanian Networks Pty Ltd is separately progressing the augmentation of the Tas transmission network (NWTD project), required to support Marinus Link. The Staverton to Hampshire Hills aspect of the NWTD has been determined to be a controlled action (EPBC 2020/8817). The remaining components for NWTD are proposed to be referred in the future as required. The NWTD project is required to provide additional network capacity and resilience to support the development of Marinus Link and the future demand from increased renewable energy generation in Tasmania. Marinus Link will facilitate increased energy transfer between Tasmania and Victoria including latent generating capacity in Hydro Tasmania's hydroelectric schemes, that currently can't be dispatched due to insufficient demand in Tasmania and insufficient capacity in the existing Basslink interconnector. Impacts associated with changes in existing pumped hydro regimes would be assessed separately by the proponent of that scheme.



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## Section 2

### Matters of national environmental significance

2.1 Is the proposed action likely to have any direct or indirect impact on the values of any World Heritage properties?

☐ Yes ☒ No

2.2 Is the proposed action likely to have any direct or indirect impact on the values of any National Heritage places?

☐ Yes ☒ No

2.3 Is the proposed action likely to have any direct or indirect impact on the ecological character of a Ramsar wetland?

☐ Yes ☒ No

2.4 Is the proposed action likely to have any direct or indirect impact on the members of any listed species or any threatened ecological community, or their habitat?

☒ Yes ☐ No

### Species or threatened ecological community

Refer to Attachment 1 for full list of species and communities.

### Impact

A preliminary impact assessment has been completed on a full list of species and ecological communities, provided in Attachment 1. The impact assessment is supported by preliminary baseline and impact assessments also attached to this referral as Attachment 2 to Attachment 6.

Threatened species/communities listed here are those with a moderate to high likelihood of pre-mitigated significant impacts from the project.

### Species or threatened ecological community

Gippsland Red Gum (*Eucalyptus tereticornis* subsp. *mediana*) Grassy Woodland and Associated Native Grassland – critically endangered

### Impact

This community has a high likelihood of occurrence within the Victorian terrestrial survey area, associated with roadsides, waterways or unused road reserves. The proposed route intersects with several road reserves and small fragmented patches of vegetation which may support this community. Avoidance of impacts is likely through the use of HDD or trenchless construction methods at road reserves and waterways. As a result, the overlap between the area of disturbance and remnants of this community is likely to be small and avoidance of impacts is possible, with a low likelihood of residual impacts.

### Species or threatened ecological community

Matted flax-lily (*Dianella amoena*) – endangered

### Impact

This species has a high likelihood of occurrence within the Victorian terrestrial survey area, associated with roadsides or patches of remnant grassy woodland vegetation. The proposed route intersects with several road reserves and small fragmented patches of vegetation which are likely to support this species. There is an important population on McFarlane Road which will not be impacted by the project. Impacts to the species are likely to be avoided through the use of HDD or trenchless construction methods, or by micro-siting of the route to avoid patches of remnant vegetation. With implementation



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of these measures there is a low likelihood of residual significant impacts on the species.

#### Species or threatened ecological community

Strzelecki Gum (*Eucalyptus strzeleckii*) – vulnerable

#### Impact

This species has a high likelihood of occurrence within the Victorian terrestrial survey area, associated with roadsides or patches of remnant woodland vegetation. The likely area of disturbance is located adjacent to or intersects areas of habitat likely to support either individual *Eucalyptus strzeleckii* trees or more significant populations. As a result, there is potential to impact on an unknown number of individuals near Stony Creek, the Lower Tarwin East Branch and the Little Morwell River valley where remnant vegetation has been retained along minor drainage lines. This impact may be considered significant as it could 'lead to a long-term decrease in the size of an important population of a species', 'reduce the area of occupancy of an important population' and/or 'adversely affect habitat critical to the survival of a species.'

Impacts to the species are likely to be mitigated through the use of HDD or trenchless construction methods, or by micro-siting of the route where possible to avoid patches of remnant vegetation, however due to varying constraints along the Victorian route (e.g. steep terrain, high cover of native vegetation), the viability of avoidance and mitigation measures through sections of the route are uncertain and further investigations are required to further understand likely impacts on the species. Consequently, there is a moderate likelihood of a residual significant impact to this species.

#### Species or threatened ecological community

River Swamp Wallaby Grass (*Amphibromus fluitans*) – vulnerable

#### Impact

This species has a high likelihood of occurrence within the Victorian terrestrial survey area, within permanent and semi-permanent waterbodies (particularly swamps, lagoons, billabongs, dams and roadside ditches) which experience regular inundation and/or seasonally-fluctuating water levels. The proposed route intersects with numerous watercourses which have the potential to support this species in suitable habitat within riparian or adjacent areas. Given the highly localised nature of this species, the potential for significant impacts to important populations cannot be ruled out.

Mitigation measures such as realignment, micro-siting and HDD or trenchless construction methods, along with appropriate construction controls, will be effective at managing most localised impacts to this species across the study area. However, should large populations be identified in steep gullies or undulating terrain, the viability of mitigation measures cannot be confirmed until further investigations are completed. The possibility of mitigated works having a significant impact on a large, important population can therefore not be ruled out at this stage.

Further information on population size and distribution in the survey area and the final area of disturbance is required to determine whether significant impacts on the species can be avoided or mitigated.

#### Species or threatened ecological community

Orchid species:

Eastern spider orchid (*Caladenia orientalis*) – endangered

Maroon leek orchid (*Prasophyllum frenchii*) – endangered

Dense leek orchid (*Prasophyllum spicatum*) -critically endangered

Green striped greenhood (*Pterostylis chlorogramma*) – vulnerable

Leafy greenhood (*Pterostylis cucullata*) – vulnerable

Spiral sun orchid (*Thelymitra matthewsii*) - vulnerable

#### Impact

These species are recorded sporadically throughout the Gippsland region and have a moderate likelihood of occurrence within the Victorian terrestrial survey area. There is potential for occurrence in coastal scrub at the Waratah foreshore or in woodland remnants between the coast and Meeniyah, with potential impacts due to clearing of suitable habitat. Given the species are generally fragmented and sparse throughout the area however, there is a low likelihood of pre-mitigated impacts from the project.

With the implementation of avoidance and mitigation measures such as HDD or trenchless construction methods and/or micro-siting of the route, it is considered unlikely that the project will have significant residual impacts on these orchid species.



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#### Species or threatened ecological community

Southern greater glider (*Petauroides volans*) – vulnerable

#### Impact

There is suitable habitat for the southern greater glider within the survey area and there is a high likelihood for the species to occur in the Mirboo North Regional Park, west of the survey area, adjacent forest and woodland, and further to the east near Ashfords Road between Stony Creek and Morwell River, and Hazelwood in the northern section of the Victorian survey area.

Impacts are possible from clearing of suitable habitat for construction resulting in the loss of hollow-bearing trees and habitat fragmentation.

The species is sensitive to fragmentation due to poor dispersal capabilities (determined by its gliding distance), small home range size, and reliance of hollow-bearing large trees, which are rare in the landscape. Narrow corridors potentially connect known populations and suitable habitat.

There is therefore a high likelihood of a significant impact on the species without mitigation through loss of large hollow-bearing trees and loss of functional ecological connectivity between populations through gaps in habitat created by clearance for the underground cable.

Areas of remnant vegetation have been avoided where possible as part of the route selection process. Mitigation measures such as micro-siting of the route to avoid large hollow-bearing trees and the use of artificial structures (e.g. gliding poles) to facilitate movement can reduce impacts to the species.

Further information is required on the size, distribution and connectivity of populations, as well as the significance and quality of habitat, to determine whether the project will have a significant residual impact on the species.

#### Species or threatened ecological community

Eastern dwarf galaxias (*Galaxiella pusilla*) - vulnerable and Australian grayling (*Prototroctes maraena*) – vulnerable

#### Impact

There is a moderate to high likelihood for these species to be present in a number of waterways within the Victorian terrestrial survey area, in particular south of Buffalo to Morwell including Morwell River, Eel Hole Creek, Stoney Creek, Little Morewell River, Berrys Creek, Tarwin River East Branch and Fish Creek.

There is potential for impacts to these species through loss or modification of instream aquatic or riparian habitations or through introduction of disease and pollutants during construction.

Impacts to these species are likely to be mitigated through the use of HDD or trenchless construction methods for major waterway crossings, however while the likelihood of significant residual impacts is low, impacts cannot be ruled out. Further information is required to determine whether there is suitable habitat for the species and if populations are present in proximity to the project.

#### Species or threatened ecological community

Growling Grass Frog, Green and golden frog (*Litoria raniformis*) – vulnerable

#### Impact

There is a moderate likelihood for this species to occur in the Victorian terrestrial survey area. There are 29 records of the species within 10km of the route and there is the potential for habitat (farm dams, waterways and lakes) within proximity of the route between Waratah Bay and Hazelwood. Further information is required to confirm if there are viable populations of the species present in the survey area.

There is potential for impacts on the species through the clearing or degradation of aquatic and terrestrial habitat for trenches, tracks, and/or easements, spread of disease (Chytrid fungus) and pests during construction, pollution, and (temporary) disruption of dispersal. There is a moderate likelihood of a significant impacts to this species without implementation of mitigation measures.

However, with the use of micro-siting and HDD or trenchless construction methods to reduce impacts to habitat, there is a low likelihood of a residual significant impact to the species.





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#### Species or threatened ecological community

Hooded Plover (eastern) (*Thinornis cucullatus cucullatus*) – vulnerable, marine

#### Impact

There is a high likelihood for this species to occur within the Victorian terrestrial survey area, with many records of the species at Sandy Point Beach and Waratah Bay. Suitable foraging and nesting habitat existing within the survey area. The population at Waratah Bay is likely to be considered as an important population of the species, with breeding activity previously recorded.

Main threats to the species from the project are habitat loss and disruption to breeding and foraging activities. Impacts to habitat are likely to be avoided through the use of HDD for construction of the shore crossing. Because of this no direct significant impacts on nesting (breeding) are likely to occur within the survey area. However, there may be impacts on movements and dispersal along Sandy Point beach and between important areas of habitat and among populations at Waratah Bay during construction. With implementation of HDD for the shore crossing the project is unlikely to have a significant impact on the species. Further mitigation measures are proposed to be implemented during construction to reduce impacts on movement and dispersal.

#### Species or threatened ecological community

Wedge-tailed eagle (*Aquila audax fleayi*) - endangered

#### Impact

There is a moderate likelihood of this species occurring adjacent to the Tasmanian terrestrial survey area, with suitable habitat for the species near the Heybridge converter station. Two nest surveys have been completed, with two nests identified within 2km of the converter station site.

While there is potential to indirectly impact the species through disturbance of active nest sites in proximity to the Heybridge site during construction, it is considered to be a low likelihood of significant impacts occurring due to the distance to known nest sites. Further assessment are proposed to be completed prior to construction to confirm the presence and uses of nests within 1km and 500m of the proposed route and converter station so that appropriate mitigation measures can be implemented if needed.

#### 2.4.2 Do you consider this impact to be significant?

☒ Yes ☐ No

#### 2.5 Is the proposed action likely to have any direct or indirect impact on the members of any listed migratory species or their habitat?

☒ Yes ☐ No

#### Migratory species

Refer to Attachment 1 for full list of migratory species.

#### Impact

A preliminary impact assessment has been completed on a full list of species from the PMST results, provided in Attachment 1. The impact assessment is supported by desktop baseline and impact assessments also attached to this referral as Attachment 2 to Attachment 6.

Migratory species listed here are those with the potential to be impacted by the project.

#### Migratory species

Migratory birds:

Eastern Curlew (*Numenius madagascariensis*), Great Knot (*Calidris tenuirostris*), Red-necked Stint (*Calidris ruficollis*), Swinhoe's Snipe (*Gallinago megala*), Greater Crested Tern (*Thalasseus bergii*), Greater Sand Plover, Large Sand Plover (*Charadrius leschenaultii*), Lesser Sand Plover, Mongolian Plover (*Charadrius mongolus*), Double-banded Plover (*Charadrius bicinctus*), Red-capped Plover (*Charadrius ruficapillus*)

#### Impact

The survey area has not been identified as an international important site for listed migratory shorebirds in accordance with criteria set out under the relevant significant impact guidelines and is not directly contiguous with one. However, Sandy Point Beach in Victoria is likely to support 'at least 15 shorebird species' and may also satisfy other criteria for consideration as 'important habitat' - under the relevant referral guidelines - should it be considered contiguous habitat with Shallow Inlet, namely 'supporting' at least 2000 migratory birds. Although the site has potential to be considered 'important habitat', the



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project is unlikely to result in significant impacts with the use of trenchless technology to avoid impacts on shore habitats. Drilling under the coastal environment will avoid the loss of any substantial area of habitat or result in habitat degradation, increased disturbance, or direct mortality such that it will lead to a substantial reduction in shorebirds use. Therefore, a significant impact is unlikely.

#### Migratory species

Migratory marine:

Pygmy Right Whale (*Caperea marginata*), Humpback whale (*Megaptera novaeangliae*), Sei whale (*Balaenoptera borealis*), Fin whale (*Balaenoptera physalus*), Blue whale (*Balaenoptera musculus*), and Southern right whale (*Eubalaena australis*)

#### Impact

These species likely to occur within the marine survey area. Potential impacts on marine migratory species may occur from construction and operation of the project, including from vessel noise, behavioural disruption, and generated electromagnetic fields.

Significant impacts on these species are not anticipated due to the short duration of construction in any one location on the seabed and ability for species to avoid the area, however further assessment is required to confirm this.

Possible mitigation measures to further reduce potential impacts to species may include the use of marine mammal observers on vessels during construction, with protocols to manage interactions with cetaceans, and/or avoiding key migration periods for construction activities.

#### Migratory species

Migratory:

Shortfin mako (*Isurus oxyrinchus*), Dusky dolphin (*Lagenorhynchus obscurus*), Porbeagle, Mackerel shark (*Lamna nasus*), and Killer whale (*Orcinus orca*)

#### Impact

These species are likely to occur within the marine survey area. Potential impacts on these species may occur from construction and operation of the project, including from vessel noise, behavioural disruption, and generated electromagnetic fields.

Significant impacts on these species are not anticipated, due to the short duration of construction in any one location on the seabed and ability for species to avoid the area, however further assessment is required to confirm this.

Possible mitigation measures to further reduce potential impacts to species may include the use of marine mammal observers on vessels during construction, with protocols to manage interactions with cetaceans, and/or avoiding key migration periods for construction activities.

#### Migratory species

Great White Shark (*Carcharodon Carcharias*) – vulnerable, migratory, marine

#### Impact

This species is known to occur within the marine survey area.

Potential impacts on this species may occur from construction and operation of the project, including from vessel noise, behavioural disruption, and generated electromagnetic fields.

Significant impacts on this species are not anticipated, due to the short duration of construction in any one location on the seabed and ability for the species to avoid the area.

#### Migratory species

Turtles:

Loggerhead turtle (*Caretta caretta*), Green turtle (*Chelonia mydas*), and Leatherback turtle (*Dermochelys coriacea*) – migratory, marine

#### Impact

These species are known to occur within the marine survey area.

Potential impacts on these species may occur from construction and operation of the project, including from vessel noise, behavioural disruption, and generated electromagnetic fields.

Significant impacts on these species are not anticipated, due to the short duration of construction in any one location on the seabed and ability for the species to avoid the area, however further assessment required to confirm.



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### Migratory species

Refer to Attachment 1 for full list of migratory species.

### Impact

A preliminary impact assessment has been completed on a full list of species from the PMST results, provided in Attachment 1. The impact assessment is supported by desktop baseline and impact assessments also attached to this referral as Attachment 2 to Attachment 6.

Migratory species listed here are those with the potential to be impacted by the project.

### Migratory species

Migratory birds:

Eastern Curlew (*Numenius madagascariensis*), Great Knot (*Calidris tenuirostris*), Red-necked Stint (*Calidris ruficollis*), Swinhoe's Snipe (*Gallinago megala*), Greater Crested Tern (*Thalasseus bergii*), Greater Sand Plover, Large Sand Plover (*Charadrius leschenaultii*), Lesser Sand Plover, Mongolian Plover (*Charadrius mongolus*), Double-banded Plover (*Charadrius bicinctus*), Red-capped Plover (*Charadrius ruficapillus*)

### Impact

The survey area has not been identified as an international important site for listed migratory shorebirds in accordance with criteria set out under the relevant significant impact guidelines and is not directly contiguous with one. However, Sandy Point Beach in Victoria is likely to support 'at least 15 shorebird species' and may also satisfy other criteria for consideration as 'important habitat' - under the relevant referral guidelines - should it be considered contiguous habitat with Shallow Inlet, namely 'supporting' at least 2000 migratory birds. Although the site has potential to be considered 'important habitat', the project is unlikely to result in significant impacts with the use of trenchless technology to avoid impacts on shore habitats. Drilling under the coastal environment will avoid the loss of any substantial area of habitat or result in habitat degradation, increased disturbance, or direct mortality such that it will lead to a substantial reduction in shorebirds use. Therefore, a significant impact is unlikely.

### Migratory species

Migratory marine:

Pygmy Right Whale (*Caperea marginata*), Humpback whale (*Megaptera novaeangliae*), Sei whale (*Balaenoptera borealis*), Fin whale (*Balaenoptera physalus*), Blue whale (*Balaenoptera musculus*), and Southern right whale (*Eubalaena australis*)

### Impact

These species likely to occur within the marine survey area. Potential impacts on marine migratory species may occur from construction and operation of the project, including from vessel noise, behavioural disruption, and generated electromagnetic fields.

Significant impacts on these species are not anticipated due to the short duration of construction in any one location on the seabed and ability for species to avoid the area, however further assessment is required to confirm this.

Possible mitigation measures to further reduce potential impacts to species may include the use of marine mammal observers on vessels during construction, with protocols to manage interactions with cetaceans, and/or avoiding key migration periods for construction activities.

### Migratory species

Migratory:

Shortfin mako (*Isurus oxyrinchus*), Dusky dolphin (*Lagenorhynchus obscurus*), Porbeagle, Mackerel shark (*Lamna nasus*), and Killer whale (*Orcinus orca*)

### Impact

These species are likely to occur within the marine survey area. Potential impacts on these species may occur from construction and operation of the project, including from vessel noise, behavioural disruption, and generated electromagnetic fields.

Significant impacts on these species are not anticipated, due to the short duration of construction in any one location on the seabed and ability for species to avoid the area, however further assessment is required to confirm this.

Possible mitigation measures to further reduce potential impacts to species may include the use of marine mammal observers on vessels during construction, with protocols to manage interactions with cetaceans, and/or avoiding key migration periods for construction activities.



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### Migratory species

Great White Shark (*Carcharodon Carcharias*) – vulnerable, migratory, marine

### Impact

This species is known to occur within the marine survey area.

Potential impacts on this species may occur from construction and operation of the project, including from vessel noise, behavioural disruption, and generated electromagnetic fields.

Significant impacts on this species are not anticipated, due to the short duration of construction in any one location on the seabed and ability for the species to avoid the area.

### Migratory species

Turtles:

Loggerhead turtle (*Caretta caretta*), Green turtle (*Chelonia mydas*), and Leatherback turtle (*Dermochelys coriacea*) – migratory, marine

### Impact

These species are known to occur within the marine survey area.

Potential impacts on these species may occur from construction and operation of the project, including from vessel noise, behavioural disruption, and generated electromagnetic fields.

Significant impacts on these species are not anticipated, due to the short duration of construction in any one location on the seabed and ability for the species to avoid the area, however further assessment required to confirm.

### 2.5.2 Do you consider this impact to be significant?

☒ Yes ☐ No

### 2.6 Is the proposed action to be undertaken in a marine environment (outside Commonwealth marine areas)?

☒ Yes ☐ No

### 2.6.1 Is the proposed action likely to have any direct or indirect impact on the Commonwealth marine environment?

☒ Yes ☐ No

### 2.6.2 Describe the nature and extent of the likely impact on the whole of the environment

Marinus Link traverses Tasmanian and Victorian territorial waters and the Commonwealth marine area (CMA) environment. A full description of the project is provided in Section 1, with preliminary impact assessments provided in Attachments 3, 4 and 6.

There is the potential for cumulative effects from project activities both within and outside of the CMA on the same values (e.g. sharks, cetaceans), as well as the potential for indirect impacts to the CMA environment from activities within state coastal waters. This section addresses potential direct or indirect impacts on the CMA from activities within state coastal waters (i.e. outside the CMA). Impacts from actions within the CMA are addressed in Section 2.13 below.

Impacts to seabed and benthic habitats:

Potential impacts to benthic habitats within the CMA from activities in coastal waters are likely to be limited to the cumulative effects of trenching across Bass Strait. The seabed of the offshore route corridor is comprised of soft-bottom sediments, mainly coarse, medium and fine-grained sands. Most of the central basin of Bass Strait comprises relatively featureless flat, soft seabed with a maximum water depth of approximately 90m. Some offshore sections nearer the coast may have a coarser substrate comprised of shell rubble and grit or coarse sands.

A large body of scientific research, including post-construction monitoring and reporting has been and continues to be completed and published for the Basslink project. This project involved the installation and operation of a subsea HVDC electricity interconnector between the north-east of Tasmania and the Gippsland region of Victoria. The outcomes of this body of work are considered relevant to Marinus Link given the similarities in the project description, scale and location, in particular within the environment of Bass Strait. As outlined in Attachment 3 (EnviroGulf 2021, Section 6.1.2, p40-45), observations of impacts from Basslink showed no significant long-term impact on the seabed from the placement of subsea cables across Bass. Primary conclusions from the observation of Basslink included:

- There was no evidence of physical disturbance to the seabed due to the presence of the cable conduit.
- The installation of the cable conduit caused minimal physical disturbance to the seabed.
- The cable conduit provided a linear artificial habitat that was distinct from the randomly patchy natural reef habitats.
- The species present on the cable conduit were the same as those occurring on nearby natural seabed.
- The cable conduit provided habitat of similar stability and complexity to bedrock and boulder habitat nearby compared to the predominantly cobble habitat that previously existed along the cable conduit alignment.



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- The cable habitat is narrow and does not appear to act as a barrier to fish or mobile seabed biota.
- Fish were observed swimming over and under the protective shell of the cable and mobile invertebrates such as sea urchins and abalone were using the underside of the cable shell as protective habitat.

Based on the above, it is considered unlikely that there will be significant impacts from disturbance to the seabed and benthic communities, however further project-specific assessment will be completed to confirm the extent and significance of impacts.

Potential impacts of construction phase turbidity plumes on marine fauna:

The installation process for the subsea cables has the potential to create turbidity plumes in the water column from water-jetting and/or trenching activities. The turbidity plumes that are generated will travel in the direction of prevailing currents near the seabed. There is a higher propensity for forming turbidity plumes in those areas of seabed comprising fine sediments (e.g., fine sands and silts) than in areas where coarser seabed materials are found (e.g., coarse sands, gravels, and shell grit).

Impacts from generated turbidity plumes are expected to be short-term and generally tolerated by most fish and invertebrate marine organisms (EnviroGulf 2021, Attachment 3, Section 6.1.3, p46) and are therefore not considered to be significant. Potential indirect impacts on the CMA may occur where mobile species across coastal and CMA environments are disturbed by temporary turbidity plumes during construction within coastal waters, however these are not likely to result in a "substantial change in ... water quality (including temperature) which may adversely impact" on biodiversity (DoE 2013).

**2.6.3 Do you consider this impact to be significant?**

☒ Yes ☐ No

**2.7 Is the proposed action likely to be taken on or near Commonwealth land?**

☐ Yes ☒ No

**2.8 Is the proposed action taking place in the Great Barrier Reef Marine Park?**

☐ Yes ☒ No

**2.9 Is the proposed action likely to have any direct or indirect impact on a water resource from coal seam gas or large coal mining development?**

☐ Yes ☒ No

**2.10 Is the proposed action a nuclear action?**

☐ Yes ☒ No

**2.11 Is the proposed action to be taken by a Commonwealth agency?**

☐ Yes ☒ No

**2.12 Is the proposed action to be undertaken in a Commonwealth Heritage place overseas?**

☐ Yes ☒ No

**2.13 Is the proposed action likely to have any direct or indirect impact on any part of the environment in the Commonwealth marine area?**

☒ Yes ☐ No

**2.13.1 Describe the nature and extent of the likely impact on the whole of the environment**

Impacts to seabed and benthic habitats: Most of the central basin of Bass Strait comprises relatively featureless flat, soft seabed. Some offshore sections nearer the coast may have a coarser substrate comprised of shell rubble and grit or coarse sands (EnviroGulf 2021, Attachment 3, p40).



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The physical impacts on marine benthic communities in the CMA are anticipated to be localised and short term, with substantial recovery to pre-disturbance physical seabed conditions within approximately one year (EnviroGulf 2021, Attachment 3, p40-45). It is considered unlikely that there will be significant impacts or disturbance to seabed and benthic communities within the CMA, however further project-specific assessment will be completed to confirm the extent and significance of impacts (if any).

Potential impacts of construction phase turbidity plumes on marine fauna: The installation process for the subsea cables has the potential to create turbidity plumes in the water column from water-jetting and/or trenching activities. The turbidity plumes that are generated will travel in the direction of prevailing currents near the seabed. Direct impacts on marine fauna from generated turbidity plumes are possible, including disruptions to behaviour (e.g. feeding, breeding, etc.), however effects are expected to be short-term and generally tolerated by most fish and invertebrate marine organisms (EnviroGulf 2021, Attachment 3, p46) and are therefore not likely to be significant.

Potential impacts of electromagnetic fields: Electromagnetic fields (EMF) occur naturally in the marine environment because of the earth's magnetic field. Electric fields are created by induction as seawater moves (tidal flows and currents) through the geomagnetic field. Weaker electric fields are created by living organisms as they move in the earth's geomagnetic field. 'Many species of marine fauna can detect electric fields and use the Earth's geomagnetic field and induced electric fields to orient themselves' (Walker 2001). This ability is fundamental in key behavioural activities for marine fauna, including hunting and migration. Therefore, certain marine species (such as sharks and cetaceans) may sense and react to generated EMF, with behavioural changes, however the responses/changes are not considered significant or fundamentally detrimental to such species (EnviroGulf 2021, Attachment 3, p46-54). Importantly, research indicates EMFs produced by submarine power cables such as Marinus Link is proposed to be, do not act as a physical barrier to migration activity, with species able to navigate past or away from the source (EnviroGulf 2021, Attachment 3, p50). Cable configuration influences EMF profiles for cables (Normandeau et al. 2011), with closer laid cables providing greater cancellation of the magnetic fields. By placing the cables closer together, preferably bundled, there is a greater mutual cancellation of EMFs. Closer cables also increase the rate at which the magnetic field diminishes with distance from the cables. Each of the two stages of Marinus Link (each consisting three cables bundled together) will be constructed as a bundled symmetrical monopole, which will have lower EMF than unbundled cables. Assuming similar or less field strengths than Basslink and similar burial depth, impact from EMF on marine fauna are not anticipated to be significant (EnviroGulf 2021, Attachment 3, p46-54). This will be verified in the impact assessment completed as part of the assessment phase of the project. Based on the above sections preliminary assessment of the impacts on Commonwealth marine area, the project has the potential to have an "adverse effect on a population of a marine species or cetacean including its life cycle (for example, breeding, feeding, migration behaviour, life expectancy)" (DoE 2013). And while that impact is not likely to be significant, further investigation is proposed to confirm the extent of potential impacts and project-specific mitigation measures be adopted to avoid or manage impacts to an acceptable level.

Marine archaeology: The installation process for the subsea cable for Marinus Link has the potential to physically impact on underwater cultural remains (e.g. shipwrecks), as outlined in Attachment 6. Current available data indicates 16 known shipwreck sites and two ammunitions dumps within the state and Commonwealth marine environments, as outlined in Attachment 6 (p16). In most cases, the locations of these sites have not been confirmed, however marine geophysical surveys have been completed which will assist in identifying potential seabed cultural anomalies or sites within the marine survey corridors, and to further inform future impact assessment. Further assessment is required to confirm that the project will not "have a substantial adverse impact on heritage values of the Commonwealth marine area, including damage or destruction of an historic shipwreck" (DoE 2013).

**2.13.2 Do you consider this impact to be significant?**

☒ Yes ☐ No



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## Section 3

### Description of the project area

#### 3.1 Describe the flora and fauna relevant to the project area

Victoria:

The desktop assessment (Attachment 2) identified 35 flora species considered to have a moderate or high likelihood of occurring within the Waratah Bay to Hazelwood survey corridor (see Figure 5), eight of which are EPBC Act listed species. These EPBC Act-listed species are:

- Dense Leek-orchid (*Prasophyllum spicatum*) – critically endangered
- Eastern spider orchid (*Caladenia orientalis*) – endangered
- Maroon leek orchid (*Prasophyllum frenchii*) - endangered
- Matted flax-lily (*Dianella amoena*) – endangered
- River swamp wallaby-grass (*Amphibromus fluitans*) – vulnerable
- Strzelecki gum (*Eucalyptus strzeleckii*) – vulnerable
- Green-striped greenhood (*Pterostylis chlorogramma*) – vulnerable
- Leafy greenhood (*Pterostylis cucullate*) – vulnerable
- Spiral sun orchid (*Thelymitra matthewsii*) – vulnerable

The sandy seabed less than 25 m water depth supports the seagrass *Zostera tasmanica*. Sandy seabed in water over 25 m depth supports a range of macroalgae and seagrass. No EPBC Act listed flora species were identified in the marine survey area in Waratah Bay (see Attachment 4).

The desktop assessment (ELA 2021, Attachment 2) identified 70 significant terrestrial fauna species considered to have a moderate or high likelihood of occurring within the Waratah Bay to Hazelwood survey corridor, 13 of which are EPBC Act-listed fauna species. Of the 13 EPBC Act listed species, four species are considered to have a high likelihood of occurrence: southern greater glider (vulnerable), hooded plover, Australian grayling and Dwarf galaxias (vulnerable).

The survey area supports limited areas of habitat likely to be considered 'important' for listed migratory species under the relevant draft referral guidelines (DE 2015).

The sandy seabed less than 25m water depth supports a range of macroalgae and invertebrates where sparse shell or cobble is present. Sandy seabed in water over 25m deep supports a range of invertebrates and some fish. The reef habitat in Waratah Bay has a well-developed biological community, however no EPBC Act or state-listed species were identified (EnviroGulf 2021, Attachment 3).

Commonwealth marine area:

The project falls within the Bass Strait Shelf Province of the South-east Marine Region. The South-east Marine Region is characterized by relatively low nutrients and primary productivity, with localised areas of high productivity combined with significant variation in water depth and seafloor features (DoE, 2015). Sections of the continental shelf, including Bass Strait, have a mosaic of rocky reefs and soft sediments. The marine region is known for its sea-floor canyons and shelf habitats, which along with key ocean currents create unique habitats for marine flora and fauna. Eight key ecological features have been identified for the South-east Marine Region (DoE, 2015). These are:

- Bonney coast upwelling
- East Tasmania subtropical convergence zone
- Bass cascade
- Upwelling east of Eden
- Big horseshoe canyon
- West Tasmania canyons
- Seamounts south and east of Tasmania
- Shelf rocky reefs and hard substrates

The project does not intersect with any of the above key ecological features of the South-east marine region.

The principal marine flora is phytoplankton present in the water column of Bass Strait and which pose no constraints on interconnector routing options across the strait or during project construction or operations.

Bass Strait is likely to support a variety of EPBC Act-listed threatened species and migratory species protected under international agreements to which Australia is a signatory. A full list is provided in Section 2 and in Attachment 3, together with their status under the EPBC Act.

Tasmania:

There were no flora species listed under the EPBC Act identified in the preliminary assessment (ELA 2021, Attachment 2) (see Figure 6).

The marine flora in the Heybridge area is characteristic of an exposed reef (EnviroGulf 2021, Attachment 3). Reefs have high environmental value for their diverse range of marine life, however no EPBC Act-listed species were identified in the nearshore area.

The threatened mammal species, *Dasyurus maculatus* subsp. *maculatus* (spotted-tailed quoll; vulnerable), *Dasyurus viverrinus* (eastern quoll; endangered), *Perameles gunnii* (eastern barred bandicoot; vulnerable), and *Sarcophilus harrisii*



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(Tasmanian devil; endangered) have been recorded near the Heybridge survey area (ELA 2021, Attachment 2).

Two bird species listed under the EPBC Act are found near the Heybridge survey area (Attachment 2). These are *Aquila audax fleayi* (Tasmanian wedge-tailed eagle; endangered), and *Ceyx azureus* subsp. *diemenensis* (Tasmanian azure kingfisher; endangered) (ELA 2021, Attachment 2).

No *Eudyptula minor* (little penguin) colonies have been identified at the Heybridge shore crossings (ELA 2021, Attachment 2).

### 3.2 Describe the hydrology relevant to the project area (including water flows)

#### Victoria:

The Victorian survey corridor traverses catchments north and south of the Strzelecki Ranges. The Morwell River and its tributaries drain the northern slopes of the ranges and the Tarwin River and its tributaries, the southern slopes and undulating plateau of the ranges.

The Morwell River discharges to the Latrobe River north of Morwell (see Figure 5). The Latrobe River discharges to the Gippsland Lakes near Sale in Central Gippsland. The Morwell River is crossed north of Yinnar, west of Hazelwood Cooling Pondage. Major tributaries of the Morwell River crossed by the survey corridor are Little Morwell River near Darlimurla and Eel Hole Creek near Churchill. Eel Hole Creek is crossed where it enters Hazelwood Cooling Pondage.

The Tarwin River discharges to Andersons Inlet at Tarwin Lower east of Inverloch. Major tributaries of the Tarwin River crossed by the survey corridor are Tarwin River East Branch near Dumbalk, Stony Creek east of Meeniyan and Fish Creek south of Buffalo.

Numerous farm dams and spring-fed soaks occur on the Strzelecki Ranges.

#### Commonwealth marine area:

Approximately 240 km wide and with an average depth of 50 metres, Bass Strait features a number of islands, deep ocean drop-offs at its margins and a meeting point of currents created by the merging of the Pacific Ocean and Southern Ocean. The region of Bass Strait is characterised as oceanic, with generally weak nearshore tidal currents, complex large-scale ocean currents, high wave climate and a wide range in water temperature (Attachment 3).

Bass Strait is influenced by three very different water masses: northern Bass Strait, south Tasman Sea and East Australia Current (Fandry et al., 1985; Gibbs et al., 1986). In winter, surface water from the Great Australian Bight moves eastwards through Bass Strait, transforming under the prevailing atmospheric conditions into the locally formed Bass Strait water, which reaches a temperature minimum near Flinders Island. A northward flow at the eastern shelf break of Bass Strait carries Bass Strait water and, from east of Tasmania, sub-Antarctic surface water towards the coast of Victoria. The low-salinity water in eastern Bass Strait and westwards along the north Tasmanian coast during November may indicate penetration of sub-Antarctic surface water (Gibbs et al., 1999). The strength of each of these water masses influences in Bass Strait is in turn influenced by seasonal and regional wind patterns (EnviroGulf 2021, Attachment 3).

#### Tasmania:

The proposed action would be located on the northwest coast of Tasmania in the Blythe River catchment. Blythe River discharges to Bass Strait at Heybridge (see Figure 6).

### 3.3 Describe the soil and vegetation characteristics relevant to the project area

Vic: A geomorphological assessment of the terrestrial component of the survey corridor (Environmental GeoSurveys 2019) has been completed for the project, which assesses and summarises the landform, geology and soil conditions throughout the Victorian survey corridor. The seabed within Waratah Bay in nearshore Victoria comprises of mostly unconsolidated sandy seabed (CEE 2021, Attachment 4). The shore crossing at Waratah Bay is a sandy beach backed by a narrow sand barrier with a single high dune ridge and backshore swale with a remnant tidal channel. The proposed route traverses hills and wide, low alluvial valleys with small catchments, and the higher, steeper terrain of the Strzelecki Ranges. The Strzelecki Ranges extend east from Western Port Bay to east of Traralgon. The ranges comprise the western and eastern ranges, with the division between the ranges a line extending from Morwell to Meeniyan. Soil cover is continuous along the survey corridor, with a minimum soil thickness of 1 m to 3 m expected. The region contains no natural bedrock exposure (only that from road cuttings), it is unlikely that any outcrop occurs along the survey corridor. The Victorian section of the alignment traverses two bioregions, the Gippsland Plain and Strzelecki Ranges bioregions. The Gippsland Plain bioregion has been largely cleared of native vegetation in areas dominated by large pastoral properties, with only small, fragmented patches of remnant and planted woodlands and scattered trees remaining, primarily along road reserves, property boundaries and creek lines. The fragmented woodland vegetation on private property is still a prominent feature of the landscape and provides important corridors connecting the small reserves and larger parks scattered throughout the region. In the foothills of the Strzelecki Ranges, woody vegetation cover increases, particularly along roadsides, creeks and gullies. Eventually this heavily wooded agricultural landscape gives way to dense plantations of both native and introduced species in the ranges north of Mirboo North. While most of this area is managed plantation, there are some larger patches and narrow corridors of native vegetation along creek lines and harvesting buffers. Upon leaving the foothills on the northern side of the ranges, the route returns to agricultural land interspersed with fragmented woodlands through the undulating plains of the Latrobe Valley. Based on the preliminary field surveys and distribution modelling, small isolated patches of grassland and woodland in the





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Latrobe Valley may qualify as the EPBC Act listed Gippsland Red Gum (*Eucalyptus tereticornis* subsp. *mediana*) Grassy Woodland and Associated Native Grassland. However, further assessment is required to reduce the uncertainty regarding the presence of native vegetation and potential impacts of the project, and to verify whether any remnant vegetation meets the condition thresholds to be classified as this threatened community. Other listed vegetation communities with a modelled distribution in the survey area, including the EPBC Act listed Natural Damp Grassland of the Victorian Coastal Plain and Subtropical and Temperate Coastal Saltmarsh are considered unlikely to occur within the survey area as a result of past vegetation clearance and changed land use in coastal areas which may have once supported these communities (see Attachment 2).

Cwlth Marine Area: The seabed across the Bass Strait is characterised by sandy substrate and muddy sediments. Hard substrate is found near the islands. Offshore seabed sediment grain size varies in relation to current velocity, with fine materials (silt and clay) in the central basin of Bass Strait and coarser sands around the coastal margins, where wave and current action is stronger (EnviroGulf 2021, Attachment 3). The large brown kelps typical of cooler waters and hard seabeds in the South East Bioregion are expected to be mostly absent from the route corridor through the Bass Strait. The soft sediments present lack the hard substrate required for kelp holdfasts and other benthic algae to settle and establish. Algae and seagrass are limited in deeper waters of the Bass Strait as light and penetration for photosynthesis becomes difficult. Soft seabed sediments within Bass Strait are also known to provide habitat suitable to mesophotic coral-sponge communities or 'sponge beds' (EnviroGulf 2021, Attachment 3).

Tas: The basement geology within the survey area consists of slatey mudstone with quartz-wacke of siltstone and sandstone rocks of the Oonah Formation (Environmental GeoSurveys 2019). The northern end is close to the margins of Cainozoic basalt that caps the dissected plateau between Blythe River and Chasm Creek and Emu River to the west. The Heybridge converter station will potentially impact a small isolated area of remnant native vegetation, *Melaleuca ericifolia* swamp forest. However, there are no listed EPBC Act veg communities identified.

#### 3.4 Describe any outstanding natural features and/or any other important or unique values relevant to the project area

No outstanding natural features or important or unique values have been identified in the project area. The nearest outstanding natural feature is Wilsons Promontory National Park and Wilsons Promontory Marine Park which are located east of the proposed route.

#### 3.5 Describe the status of native vegetation relevant to the project area

In Tasmania, the converter station land has been previously disturbed and is largely cleared. The project area has been extensively cleared in Victoria. Native vegetation exists as linear strips in road reserves and riparian vegetation along watercourses, and as patches in paddocks, plantations and coastal reserves.

Potential impacts to native vegetation were determined by overlaying the remotely mapped native vegetation dataset (including both patches and scattered trees) with the indicative area of disturbance, then considering the applicability of mitigation measures along the route to determine if impacts can be reduced. Where the project has the potential to result in the removal of vegetation, the extent of removal was calculated. Where relevant the ecological vegetation community (EVC) and bioregional conservation status of the native vegetation was noted.

##### Victoria:

The assessment of area of disturbance (defined in Attachment 2) estimated 14 hectares of native vegetation and 44 scattered trees may be removed along the route. Within that native vegetation, one EPBC Act listed ecological community may be impacted, the 'Gippsland Red Gum (*Eucalyptus tereticornis* subsp. *mediana*) Grassy Woodland and Associated Native Grassland' (see Attachment 2). The total native vegetation removal would include the removal of approximately:

- 5.2 hectares of vegetation belonging to an endangered EVC, including:
  - Damp Forest (EVC 29) – 1.7 ha
  - Herb-rich Foothill Forest (EVC 23) – 1 ha
  - Swamp Scrub (EVC 53) – 1.1 ha
  - Swampy Riparian Woodland (EVC 83) – 0.2 ha
  - Plains Grassy Woodland (EVC 55) - may contain EPBC Act listed Gippsland Red Gum – 0.9 ha
  - Plains Grassy Forest (EVC 151, Strzelecki Ranges bioregion) - may contain EPBC Act listed Gippsland Red Gum –

0.3 ha

- 7.8 hectares of vegetation belonging to a vulnerable EVC, including:
  - Damp Heathy Woodland/Lowland Forest Mosaic (EVC 1106) – 4.2 ha
  - Lowland Forest (EVC 16) – 2 ha
  - Plains Grassy Forest (EVC 151, Gippsland Plain bioregion) – 1.6 ha
- 0.9 hectares of vegetation belonging to a depleted EVC (Wet Forest (EVC 30))

Vegetation removal is estimated to primarily occur within constrained sections of the route through the Strzelecki Ranges and where the route is within the tree root protection zone, as is the case in some sections where the route is adjacent to or in road reserves. A summary of how much of each potentially impacted EVC is present in the two bioregions, and the



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proportion of each which may be impacted by the project is outlined below.

Bioregion: Strzelecki

EVC: Wet Forest, Status: Depleted, Area in bioregion (AIB): 651,349 ha, Area potentially impacted (API): 0.8 ha, % potentially impacted (%PI): <0.001%

EVC: Damp Heathy Woodland/Lowland Forest, Status: Vulnerable, AIB: 386,094 ha, API: 1.6 ha, %PI: <0.001%

EVC: Lowland Forest, Status: Vulnerable, AIB: 6,683 ha, API: 2 ha, %PI: 0.03%

EVC: Damp Forest, Status: Endangered, AIB: 25,170 ha, API: 1.7 ha, %PI: 0.007%

EVC: Herb-rich Foothill Forest, Status: Endangered, AIB: 2,567 ha, API: 1 ha, %PI: 0.04%

EVC: Plains Grassy Forest, Status: Endangered, AIB: 350 ha, API: 0.5 ha, %PI: 0.09%

Bioregion: Gippsland Plain

EVC: Damp Heathy Woodland/Lowland Forest Mosaic, Status: Vulnerable, AIB: 5,384 ha, API: 2.6 ha, %PI: 0.05%

EVC: Plains Grassy Woodland, Status: Endangered, AIB: 20,522 ha, API: 0.9 ha, %PI: 0.004%

EVC: Plains Grassy Forest, Status: Vulnerable, AIB: 30,426 ha, API: 1.6 ha, %PI: 0.005%

EVC: Swamp Scrub, Status: Endangered, AIB: 27,359 ha, API: 1.1 ha, %PI: 0.004%

EVC: Swampy Riparian Woodland, Status: Endangered, AIB: 5,282 ha, API: 0.2 ha, %PI: 0.004%

EVC: Coastal Dune Scrub, Status: Depleted, AIB: 8,250 ha, API: 0.1 ha, %PI: 0.001%

Giant Kelp Marine Forests of South East Australia are found on the Victorian coasts; however, this ecological community was not identified during the preliminary assessments.

Commonwealth marine area:

The principal marine flora is phytoplankton present in the water column of Bass Strait and which pose no constraints to the favourable route across Bass Strait, during either construction or operation (EnviroGulf 2021, Attachment 3).

Tasmania:

No nationally significant ecological communities identified in the survey area. Approximately 1 ha of vegetation may be removed as part of the project (in the converter station site), however this will be confirmed through detailed project design.

Giant Kelp Marine Forests of South East Australia are found on the Tasmanian coasts; however, this communities was determined to be unlikely to be present in the baseline studies (EnviroGulf 2021, Attachment 3).

### 3.6 Describe the gradient (or depth range if action is to be taken in a marine area) relevant to the project area

Victoria:

The Strzelecki Ranges extend east from Western Port Bay to east of Traralgon. The ranges comprise the western and eastern ranges, with the division between the ranges a line extending from Morwell to Meeniyan. Elevations range from 300m to 500m above sea level (ASL), with the highest point – Mt Tassie (730m). The Grand Ridge runs east–west along the ranges and is the watershed between coastal and inland river systems (Environmental GeoSurveys 2019).

Waratah Bay has a relatively flat beach and gently sloping seabed that extends to the floor of Bass Strait at approximately 80 to 90m water depth (EnviroGulf 2021, Attachment 3).

Commonwealth marine area:

Bass Strait averages 50m water depth with the maximum water depth of approximately 90m found mid-strait (EnviroGulf 2021, Attachment 3).

Tasmania:

Northern Tasmania is characterised by undulating plateaus with incised rivers and creeks, coastal ranges and estuaries, backed by the elevated plateau at the base of the Great Western Tiers and Central Highlands. The coastal plain fronting Bass Strait is narrow until west of Rocky Cape where it becomes more expansive. Between Devonport and Sisters Beach, the plain is backed by an escarpment. Elevation of the plateau ranges from 80m ASL to 130m ASL.

The seabed at Heybridge slopes to approximately 60m water depth through a patchwork of nearshore reefs (EnviroGulf 2021, Attachment 3).

### 3.7 Describe the current condition of the environment relevant to the project area

Victoria:

The proposed cable route falls within the Gippsland Plain and Strzelecki Ranges bioregions, and lies within both private and public land, with the private land predominantly being cleared for agricultural purposes. The Victorian survey corridor traverses a highly modified environment that has been subject to agricultural and plantation forestry development.

Vegetation within the survey corridor is predominantly confined to roadsides, along watercourses, in reserves and patches of paddocks. The invasion of weed species are of concern in this area and unmitigated project activities may facilitate the



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spread of weeds.

Commonwealth marine area:

Approximately 240km wide and with an average depth of 50m, Bass Strait features a number of islands, deep ocean drop-offs at its margins and a meeting point of currents created by the merging of the Pacific Ocean and Southern Ocean. The region of Bass Strait is characterised as oceanic, with weak nearshore tidal currents, complex large-scale ocean currents, high wave climate and a wide range in water temperature.

The proposed route will lie wholly within the Bass Strait Shelf Province. This is a province of the South-east Marine Region. Within the Bass Strait Shelf Province, the proposed route from Tasmania to Victoria passes through three bioregions; namely the Boags, Central Bass Strait and Flinders bioregions.

Oil and gas fields occur in the Otway, Bass and Gippsland basins that are located off the southwest Victorian coast, mid-strait and off the eastern Victorian coast respectively. The Yolla gas field is located mid strait and produces gas which is piped to Victoria for processing, crossing the coast at Kilcunda. The Tasmania Gas Pipeline supplies gas to Tasmania from Langford Gas Plant in East Gippsland, Victoria. The pipeline is located east of Basslink, which runs down the eastern side of Wilsons Promontory and Hogan Group Islands. Two Telstra submarine communications cables also traverse the Bass Strait between Victoria and Tasmania.

Bass Strait is also an important seaway. Shipping lanes extend from Tasmania's major ports at Tamar River, Devonport and Burnie to the major shipping lanes traversing Bass Strait to Adelaide, Portland, Melbourne/Geelong, and Sydney ports.

Tasmania:

Northern Tasmania is characterised by undulating plateaus with incised rivers and creeks, coastal ranges and estuaries. The elevated plateau extends inland from the coast to the base of the Great Western Tiers and Central Highlands. The productive soils have resulted in extensive clearing of native vegetation for agriculture and plantation forestry. Major towns are located along the coast, with coastal development spreading, and small rural towns located inland. The project will be located within historically disturbed land at Heybridge.

### **3.8 Describe any Commonwealth Heritage places or other places recognised as having heritage values relevant to the project**

Victoria:

There are no listed Commonwealth Heritage Places and no places of national, state, regional or local historical heritage significance are located within the survey area (Attachment 5). Substantial sections of the route traverse greenfield areas where the potential for significant historical places to occur is limited given the predominant use of the land for agricultural and pastoral activities.

Six maritime archaeological sites were identified as being possibly located within 5 km of the dual conceptual cables within the Waratah Bay nearshore survey area; all six sites are associated with shipwrecks (Attachment 6). None of the wrecks have been reported found, however based on the assessed accuracies of the six wrecks, all are possibly located within the survey area (see Attachment 6).

Commonwealth Marine Area:

There are four maritime archaeological sites identified to be possibly within 5 km of the CMA survey corridor, including two shipwrecks, and two ammunitions dump sites. The details of these sites are outlined in Attachment 6.

Tasmania:

The Heybridge survey area does not intersect with any registered Commonwealth Heritage Places or other places with recognised heritage values (see Attachment 5).

Paleochannels (remnants of ancient and inactive rivers) occur near Heybridge, with the project alignment proposing to follow the sandy sediments accumulated within these features. Such marine landscapes have the potential for remnants of Aboriginal cultural heritage, discussed further below.

Eight maritime archaeological sites were identified as being possibly located within 5 km of the dual conceptual cables within the Heybridge nearshore survey area. All eight sites are shipwrecks.

None of the wrecks have been reported as being found, however based on the assessed accuracies of the eight wrecks, one may be located within the survey corridor (see Attachment 6).

### **3.9 Describe any Indigenous heritage values relevant to the project area**

Victoria:

A search of the Victorian Aboriginal Heritage Register identified 50 registered Aboriginal cultural heritage places with the Victorian regional study area, 11 of which are located within the survey area (Attachment 6). Registered places within the regional study area included 39 artefact scatters, six low density artefact distributions, three scarred trees, three earth features, three shell middens and two quarries. A complete list of these can be found in Attachment 6. The 11 registered sites within the survey area consist of nine artefact scatters, one quarry and one low density artefact distributions. The eleven registered places intersected by the Victorian survey area occur at three primary locations:

- within 1 km of the Waratah Bay coastline, in close proximity to Waratah Road



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- south-west of Driffield, along the Strzelecki Highway and Kings Road
- in the south-eastern portion of the Hazelwood Cooling Pond.

The clustering of registered places into three discrete locations should not be taken as definitive evidence of the true range and distribution of Aboriginal cultural heritage values across the survey area, as it is likely to be the result of a lack of archaeological investigations having been conducted in this area. Further assessment is proposed as part of the project impact assessment, and a Cultural Heritage Management Plan will be prepared.

#### Commonwealth Marine Area:

Because the project is likely to only impact recent marine (Holocene) sediments, with no seismic or deep excavations proposed, it is not anticipated that buried Aboriginal heritage values would be impacted (Cosmos Archaeology 2021, Attachment 6).

#### Tasmania:

There are no registered Aboriginal heritage sites located within 100 m of the survey area boundary (see Attachment 5).

The coastline at Heybridge has a potential for shell midden site, and for fish traps to be located in the intertidal zone and seal hides to be located along the coastline if cobblestone beaches are present. The highest concentration of known fish traps in Tasmania occurs along the northern coastline between Ulverstone and Burnie, and the intertidal zone near Heybridge is the most probable location to identify fish traps within survey area. Overall, the site types considered most likely to be encountered within the Tasmanian survey area are artefact scatters and isolated artefacts, or a combination thereof.

Paleochannels located near Heybridge have the potential for remnants of Aboriginal cultural heritage (including artefact scatters, rock shelters and possible stone fish traps) given the rivers may once have been important resources to Aboriginal people more than some 10,000 years ago when sea levels were lower. Further investigations will be required to determine the potential for underwater cultural heritage values within the project area.

### 3.10 Describe the tenure of the action area (e.g. freehold, leasehold) relevant to the project area

Land tenure in Tasmania comprises: Private freehold land owned by Marinus Link Pty Ltd; Government roads (Crown Land) managed by the Department of State Growth or Burnie City Council; TasRail land (Crown Land); Coastal reserve (Crown Land) managed by DPIWE.

Land tenure in Victoria comprises: Private freehold; Government roads under local government or state road authority control; Unmade government roads (Land Act 1958); Reserved Crown land (Crown Land (Reserves) Act 1978); Unreserved Crown land (Land Act 1958); Unreserved Crown land vested in Victorian Plantations Corporation (Victorian Plantations Corporation Act 1993); Easements for gas transmission and electricity transmission infrastructure.

The recent Offshore Electricity Infrastructure Bill 2021, if passed into law, will create a regime for offshore tenure that may be applicable to Marinus Link.

### 3.11 Describe any existing or any proposed uses relevant to the project area

Marinus Link will traverse several different land uses. The potential to affect existing productive land uses has been a key consideration in the route selection process, reflected in the description of the proposed route below.

#### Victoria:

In the southern portion of the route, near Waratah Bay, the cables will generally fall within rural residential and farmland, road corridors and industrial land, while the transition station connecting the land and sea cables in Waratah Bay falls behind the coast reserve, within farmland. The route also traverses a property line to Great Southern Rail Trail reserve, a former railway reserve which is now used as a bicycle trail. The route enters and follows the unmade government road reserve adjacent to the rail reserve and runs in the reserve north to near Stony Creek.

The cable avoids the potentially landslide and erosion prone steep slopes of the elevated plateau that extends from Mardan to Mirboo North, skirting around Mirboo North to maintain the gentler terrain at the head of the gullies. Old Darlimurla Road is followed through softwood and hardwood plantations to Darlimurla. Firebreaks have been constructed adjacent to the Strzelecki Highway road reserve to protect the softwood and hardwood plantations. Wide firebreaks on either side of the road offer good routes along the road. From Darlimurla, the route follows Ten Mile Creek Road and plantation access roads through the plantations to Strzelecki Highway east of Delburn.

No significant incompatible land uses were identified during the route selection process.

Most nearshore recreational fishing in Victorian coastal waters is located to the east of Wilsons Promontory in Corner Inlet that has easy access via population centres at Port Franklin and Port Welshpool. In nearshore Victoria, there are very few population centres along the coast of Waratah Bay, where the nearshore interconnector is proposed to come ashore and recreational fishing is therefore expected to be infrequent.

#### Commonwealth marine area:

There are numerous commercial fisheries present in the Bass Strait. Some of the types of fishing uses gear that is set or towed along the seafloor, which have a risk of physical interaction with the proposed sea cable. These are scallop fishing,



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shark gillnet fishing and trawl fishing.

Commercial fishing for scallops in Bass Strait is managed under three jurisdictions. Victoria and Tasmania manage zones out to 20 nm off their respective coastlines, and the Australian Fisheries Management Authority manages the Bass Strait Central Zone Scallop Fishery (see Attachment 3). Most scallop fishing grounds are focused on the eastern and western regions of Bass Strait, with very few areas in the central basin of Bass Strait where the project is proposed.

The Shark Gillnet and Shark Hook sectors of the Southern and Eastern Scalefish and Shark Fishery extend south from New South Wales to the Victoria border, around Tasmania, and west to the South Australian and Western Australian border. Shark fishing in Victorian coastal waters is prohibited, and is regulated in Tasmanian coastal waters. As such most fishing occurs in waters adjacent to the coastline and throughout Bass Strait (Attachment 3).

Trawling in the region of the cable is likely to be mainly along the central part of the Victorian coast, by Danish seining and otter trawling for school whiting (*Silago spp.*), with flathead and a variety of other species also caught.

Tasmania:

The converter station is proposed to be located on a vacant property at Heybridge in north-west Tasmania. The area to the south west of the converter station site is the location of the Eagle Sea Estate residential development which is zoned for environmental management and environmental living under the Tasmanian Planning Scheme. The coastal area where the shore crossings are proposed is also zoned for environmental management.

The Tasmanian nearshore survey area is located along a stretch of coastline with population centres. Therefore, recreational fishing activities may be expected to include nearshore areas close to these population centres and proposed routes (EnviroGulf 2021, Attachment 3).



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## Section 4

### Measures to avoid or reduce impacts

#### 4.1 Describe the measures you will undertake to avoid or reduce impact from your proposed action

MLPL is committed to implementing the avoid, mitigate, offset hierarchy.

##### Avoidance:

For linear infrastructure like Marinus Link, route selection offers the best opportunity to avoid impacts on environmental and social values. The proposed route for Marinus Link is the culmination of a comprehensive route and site selection process that has considered technical, environmental, cultural and social constraints (see Attachment 7). Avoidance of significant impacts on existing infrastructure, environmentally sensitive areas including threatened species habitat and threatened ecological communities, and land use was a key objective and is the primary mitigation for linear infrastructure.

Avoidance measures adopted in route selection included (where possible):

- avoiding national parks, marine parks, state parks, conservation parks and reserves
  - avoiding registered heritage places
  - reducing direct impacts to intact patches of remnant vegetation
  - utilising existing breaks in riparian vegetation for watercourse crossings
  - reducing length of route in landforms and features considered highly prospective for Aboriginal heritage
  - locating the route in farmland to avoid impacts on remnant vegetation in road reserves and disruption to traffic and access caused by constructing in a road carriageway
  - locating the route adjacent to boundary fences to reduce impacts on land use and properties
  - locating the route in or adjacent to disturbed areas including plantation firebreaks, farm laneways, access tracks and disused road formations
  - making perpendicular crossings of watercourses and coastal dunes.
  - micro siting joint pits and other infrastructure to avoid ecological values where practicable.
- Other avoidance measures implemented to reduce impacts from the project include:
- Use of underground HVDC technology for the onshore cable component of Marinus Link within Victoria.
  - Use of a single shore crossing is proposed in Victoria. It is proposed the shore crossing will be constructed using HDD, which will extend up to 1 km offshore or to 10 m water depth. The intention of this approach is to avoid and reduce impacts to sensitive coastal dune habitats at Waratah Bay and the Waratah Bay-Shallow Inlet Coastal Reserve.
  - It is proposed to use HDD for the shore crossing in Tasmania.
  - Where possible, use of existing roads and tracks for access, avoiding the need to construct new access tracks.
  - Using cleared sites with no significant environmental values for laydown areas where practicable.
  - Sourcing quarry material, concrete and other construction materials from existing licensed facilities where practicable avoiding the need to construct new facilities.
  - Narrowing the indicative construction area of disturbance in some areas to avoid impacting vegetation and to provide sufficient clearance to avoid tree protection zones.
  - Locating the transition station in farmland, away from sensitive coastal reserves and high value foreshore areas.
  - Locating the converter station in an area with existing electricity infrastructure
  - Bundling cables closer together so there is a greater mutual cancellation of EMFs.
  - Burying cables at least 1 m in the seabed to reduce magnetic fields.

##### Mitigation:

Mitigation measures will be implemented where practicable to reduce the scale, duration and/or intensity of impacts on environmental values.

Proposed mitigation measures include:

- Reduction of impacts to vegetation through the proposed use of HDD or other trenchless construction methods at targeted crossing sites (e.g. at waterways, sealed roads, areas of roadside vegetation, etc.).
- Reinstatement and rehabilitation of the construction corridor, temporary access and laydown areas to pre-construction uses, or as agreed with the landowner/s.
- Micro siting joint pits and other infrastructure to avoid ecological values where practicable.
- Installation of the ducts for both 750MW stages at the shore crossing and for land cables as part of stage one, to allow the second stage cable lengths to be pulled through between joint bays at a future date, avoiding the need for additional excavation for stage two of construction.
- Siting and design of the built form of the converter station and potential transition station to reduce landscape impacts e.g. orientation/placement away from sensitive viewpoints, colour of materials used.
- Reducing the height of the potential transition station to be in keeping with the adjacent building (less than 3 m).

An environmental management framework will be developed that will set out how mitigation measures (based on the avoid, mitigate and offset hierarchy) which will be implemented during construction and operation to reduce environmental impacts.



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**4.2 For matters protected by the EPBC Act that may be affected by the proposed action, describe the proposed environmental outcomes to be achieved**

Environmental, land use planning and cultural heritage values will be carefully considered, and impacts assessed and managed in accordance with the avoid, mitigate and offset hierarchy, where:

- Avoidance is defined as measures implemented to avoid direct or indirect impacts to environmental values through design and planning. These measures eliminate an emission source or impact pathway.
- Mitigation is defined as measures implemented to reduce the scale, duration and/or intensity of an impact on an environmental value after all reasonable avoidance measures have been put in place.

Offset requirements for the project will be identified during detailed assessment of the project in accordance with the requirements of the Environment Protection and Biodiversity Conservation Act 1999 Environmental Offsets Policy (Department of Sustainability, Environment, Water, Population and Communities, October 2012).

MLPL is developing a project-specific environment policy. This policy will include a commitment to reduce impacts on the environment from the project where practicable. To achieve this, MLPL will:

- Carefully plan to manage impacts by proactively identifying and managing risks so far as is reasonably practicable to prevent harm.
- Intervene, delay or stop activities that have the potential to cause environmental impacts, including pollution, until effective controls are in place.
- Seek out, identify and implement opportunities that create value by integrating sustainability principles into activities, using resources efficiently, reducing waste and reducing negative physical impacts to the environment.
- Actively report all environmental incidents, issues or concerns, including near-hits, and recommended solutions to environmental issues
- Set and regularly review environmental objectives and targets to achieve continual improvement, monitor performance and recognise and reward achievements.
- Design standards and procedures to follow best practice codes and support compliance with the law.



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## Section 5

### Conclusion on the likelihood of significant impacts

#### 5.1 You indicated the below ticked items to be of significant impact and therefore you consider the action to be a controlled action

- ☐ World Heritage properties
- ☐ National Heritage places
- ☐ Wetlands of international importance (declared Ramsar wetlands)
- ☒ Listed threatened species or any threatened ecological community
- ☒ Listed migratory species
- ☒ Marine environment outside Commonwealth marine areas
- ☐ Protection of the environment from actions involving Commonwealth land
- ☐ Great Barrier Reef Marine Park
- ☐ A water resource, in relation to coal seam gas development and large coal mining development
- ☐ Protection of the environment from nuclear actions
- ☐ Protection of the environment from Commonwealth actions
- ☐ Commonwealth Heritage places overseas
- ☒ Commonwealth marine areas

#### 5.2 If no significant matters are identified, provide the key reasons why you think the proposed action is not likely to have a significant impact on a matter protected under the EPBC Act and therefore not a controlled action

Not applicable





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## Section 6

### Environmental record of the person proposing to take the action

#### 6.1 Does the person taking the action have a satisfactory record of responsible environmental management? Explain in further detail

The proponent, Marinus Link Pty Ltd (MLPL), is a newly created and wholly-owned subsidiary of Tasmanian Networks Pty Ltd (TasNetworks), the transmission and distribution network service provider for the Tasmanian electricity network, and has no development history prior to Marinus Link. Therefore MLPL has no record of responsible environmental management. However, MLPL is committed to the sustainable conduct of its activities, and is developing a project-specific environment policy and environmental management framework. This policy will include a commitment to minimise impacts on the environment from the project.

#### 6.2 Provide details of any past or present proceedings under a Commonwealth, State or Territory law for the protection of the environment or the conservation and sustainable use of natural resources against either (a) the person proposing to take the action or, (b) if a permit has been applied for in relation to the action – the person making the application

MLPL has no past or present proceedings against it under a Commonwealth, State or Territory law for the protection of the environment or the conservation and sustainable use of natural resources.

#### 6.3 If it is a corporation undertaking the action will the action be taken in accordance with the corporation's environmental policy and framework?

☒ Yes ☐ No

#### 6.3.1 If the person taking the action is a corporation, provide details of the corporation's environmental policy and planning framework

MLPL is in the process of developing a project-specific environment policy. An environmental management framework will be developed prior to construction, setting out how mitigation measures will be implemented for the project.

#### 6.4 Has the person taking the action previously referred an action under the EPBC Act, or been responsible for undertaking an action referred under the EPBC Act?

☐ Yes ☒ No



Note: PDF may contain fields not relevant to your application. These fields will appear blank or unticked. Please disregard these fields.

## Section 7

### Information sources

#### Reference source

Andruliewicz, E., D. Napierska, D. and Otremba, X. 2003. Environmental effects of installing and functioning of submarine HVDC transmission line SwePol Link. Case study related to the Polish Marine Area of the Baltic Sea. Journal of Sea Research, 49: 337–345.

#### Reliability

All of the references used in the development on this EPBC referral are considered reliable and suitably recent for the purpose of this report, however further studies may be required.

#### Uncertainties

No uncertainties are considered to be present within any material used with respect to the context in which they were use.

#### Reference source

Boon, I. 2015. Chapter 5. Victoria. In: Australia's saltmarshes: a synopsis to underpin the repair and conservation of Australia's environmentally, socially and economically important bays and estuaries. A Report for the National Environmental Science Programme: Marine Biodiversity Hub (Eds. C. Creighton, C. Gillies and I. McLeod). Report No. 15/61. Centre for Tropical Water and Aquatic Ecosystem Research (TropWATER). James Cook University, Townville. October 2015.

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#### Reference source

CEE 2021, Nearshore Marine Benthic Characterisation of Tasmanian and Victorian Landfall Options - Marinus Link. June 2021. Report prepared for Marinus Link Pty Ltd.

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#### Uncertainties

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#### Reference source

Coffey. 2007. Marine magnetometer monitoring program. Basslink Project, Devonport, Tasmania. Report No. S2528/01 AC. Prepared by Coffey Geosciences Systems Pty Ltd for Basslink Pty Ltd. December 2007.

#### Reliability

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#### Reference source

Department of the Environment 2013. Matters of National Environmental Significance: Significant impact guidelines 1.1. Commonwealth of Australia, Canberra

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#### Reference source

Department of the Environment 2015. South-east marine region profile: a description of the ecosystems, conservation values and uses of the South-east Marine Region, Commonwealth of Australia 2015

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#### Uncertainties

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#### Reference source

Department of Environment, Water, Heritage and Arts 2009. Significant impact guidelines for the vulnerable growling grass frog (*Litoria raniformis*). Canberra: Commonwealth of Australia.

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#### Uncertainties

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#### Reference source

Department of the Environment, Water, Heritage and the Arts 2010. Approved Conservation Advice for *Tyto novaehollandiae castanops* (Tasmanian Masked Owl). Department of the Environment, Water, Heritage and the Arts, Canberra.

#### Reliability

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#### Uncertainties

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#### Reference source

Edgar, G.J., Moverley, J., Peters, D. and Reed, C. 1995. Regional classification of Tasmanian coastal waters (and preliminary identification of representative marine protected areas). Parks and Wildlife Service, Department of Environment and Land Management. Hobart.

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#### Uncertainties

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#### Reference source

Edyvane, K. 2003. Conservation, Monitoring and Recovery of Threatened Giant Kelp (*Macrocystis pyrifera*) Beds in Tasmania – Final Report (to Environment Australia). Department of Primary Industries, Water and Environment, Tasmania.

#### Reliability



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#### Uncertainties

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#### Reference source

ELA 2021. Marinus Link Terrestrial Cultural Heritage Priority Baseline Study. June 2021. Report prepared for Marinus Link Pty Ltd.

#### Reliability

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#### Uncertainties

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#### Reference source

ELA 2021. Terrestrial Ecology Baseline Study - Marinus Link. June 2021. Report prepared for Marinus Link Pty Ltd.

#### Reliability

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#### Uncertainties

No uncertainties are considered to be present within any material used with respect to the context in which they were use.

#### Reference source

EnviroGulf 2019. Overview of Potential Impacts of Geophysical Surveys and Geotechnical Sampling on EPBC Act Matters of National Environmental Significance – Project Marinus. March 2019. Report prepared for Marinus Link Pty Ltd.

#### Reliability

All of the references used in the development on this EPBC referral are considered reliable and suitably recent for the purpose of this report, however further studies may be required.

#### Uncertainties

No uncertainties are considered to be present within any material used with respect to the context in which they were use.

#### Reference source

EnviroGulf 2021. Marine Ecology and resource use Desktop Assessment Study -Marinus Link. June 2021. Report prepared for Marinus Link Pty Ltd.

#### Reliability

All of the references used in the development on this EPBC referral are considered reliable and suitably recent for the purpose of this report, however further studies may be required.

#### Uncertainties

No uncertainties are considered to be present within any material used with respect to the context in which they were use.

#### Reference source

Environmental GeoSurveys Pty Ltd 2019. Geomorphological Assessment of Terrestrial Alignments. February 2018. Report prepared for Coffey Services Australia Pty Ltd.

#### Reliability

All of the references used in the development on this EPBC referral are considered reliable and suitably recent for the purpose of this report, however further studies may be required.



Note: PDF may contain fields not relevant to your application. These fields will appear blank or unticked. Please disregard these fields.

#### Uncertainties

No uncertainties are considered to be present within any material used with respect to the context in which they were use.

#### Reference source

Natural and Cultural Heritage Division 2015 Survey Guidelines and Management Advice for Development Proposals that may impact on the Tasmanian Devil (*Sarcophilus harrisii*). Department of Primary Industries, Parks, Water and Environment.

#### Reliability

All of the references used in the development on this EPBC referral are considered reliable and suitably recent for the purpose of this report, however further studies may be required.

#### Uncertainties

No uncertainties are considered to be present within any material used with respect to the context in which they were use.

#### Reference source

Normandeau, Exponent, T Tricas and A Gill 2011. Effects of EMFs from Undersea Power Cables on Elasmobranchs and Other Marine Species. U.S. Dept. of the Interior, Bureau of Ocean Energy Management, Regulation, and Enforcement, Pacific OCS Region, Camarillo, CA. OCS Study BOEMRE 2011-09.

#### Reliability

All of the references used in the development on this EPBC referral are considered reliable and suitably recent for the purpose of this report, however further studies may be required.

#### Uncertainties

No uncertainties are considered to be present within any material used with respect to the context in which they were use.

#### Reference source

Sherwood, J., Chidgey, S., Crockett, P., Gwyther, D., Ho, P., Stewart, S., Strong, D., Whitely, B. and Williams, A. 2016. Installation and operational effects of a HVDC submarine cable in a continental shelf setting: Bass Strait, Australia. Journal of Ocean Engineering and Science, 1: 337–353.

#### Reliability

All of the references used in the development on this EPBC referral are considered reliable and suitably recent for the purpose of this report, however further studies may be required.

#### Uncertainties

No uncertainties are considered to be present within any material used with respect to the context in which they were use.

#### Reference source

Threatened Species Scientific Committee. 2017. Conservation Advice *Astacopsis gouldi* (giant freshwater crayfish, Tasmanian giant freshwater lobster). Department of the Environment and Energy, Canberra.

#### Reliability

All of the references used in the development on this EPBC referral are considered reliable and suitably recent for the purpose of this report, however further studies may be required.

#### Uncertainties

No uncertainties are considered to be present within any material used with respect to the context in which they were use.

#### Reference source

Threatened Species Section. 2011c Listing Statement for *Senecio psilocarpus* (swamp fireweed). Department of Primary Industries, Parks, Water and Environment, Tasmania.

#### Reliability



Note: PDF may contain fields not relevant to your application. These fields will appear blank or unticked. Please disregard these fields.

All of the references used in the development on this EPBC referral are considered reliable and suitably recent for the purpose of this report, however further studies may be required.

#### Uncertainties

No uncertainties are considered to be present within any material used with respect to the context in which they were use.

#### Reference source

Threatened Species Section. 2012b. Listing Statement for *Ceyx azureus* subsp. *diemenensis* (Azure Kingfisher). Department of Primary Industries, Parks, Water and Environment, Tasmania.

#### Reliability

All of the references used in the development on this EPBC referral are considered reliable and suitably recent for the purpose of this report, however further studies may be required.

#### Uncertainties

No uncertainties are considered to be present within any material used with respect to the context in which they were use.

#### Reference source

Threatened Species Unit. 2003c. Notesheet for *Persicaria decipiens* (slender knotweed). Department of Primary Industries, Water and Environment.

#### Reliability

All of the references used in the development on this EPBC referral are considered reliable and suitably recent for the purpose of this report, however further studies may be required.

#### Uncertainties

No uncertainties are considered to be present within any material used with respect to the context in which they were use.

#### Reference source

Threatened Species Unit. 2003e. Notesheet for *Glycine latrobeana* (clover glycine). Department of Primary Industries, Water and Environment.

#### Reliability

All of the references used in the development on this EPBC referral are considered reliable and suitably recent for the purpose of this report, however further studies may be required.

#### Uncertainties

No uncertainties are considered to be present within any material used with respect to the context in which they were use.

#### Reference source

Walker, TI 2001. Basslink project review of impacts of high voltage direct current sea cables and electrodes on chondrichthyan fauna and other marine life. Basslink Supporting Study No.29. Marine and Freshwater Resources Institute No. 20. 68. (Marine and Freshwater Resources Institute: Queenscliff, Victoria, Australia)

#### Reliability

All of the references used in the development on this EPBC referral are considered reliable and suitably recent for the purpose of this report, however further studies may be required.

#### Uncertainties

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<b>Section 8</b>
<b>Proposed alternatives</b>
<b>Do you have any feasible alternatives to taking the proposed action?</b> Yes <input checked="" type="checkbox"/> No



Note: PDF may contain fields not relevant to your application. These fields will appear blank or unticked. Please disregard these fields.

## Section 9

### Person proposing the action

9.1.1 Is the person proposing the action an organisation or business?

☒ Yes ☐ No

#### Organisation

Organisation name (as registered for ABN/ACN) MARINUS LINK PTY LTD  
Business name  
ABN 47630194562  
ACN  
Business address 1-7 Maria St, Lenah Valley, 7008, TAS, Australia  
Postal address  
Main Phone number 1300 137 008  
Fax  
Primary email address team@marinuslink.com.au  
Secondary email address

9.1.2.1 I qualify for exemption from fees under Regulation 5.23(1)(ii) of the EPBC Regulations because I am:

☐ Small business  
☒ Not applicable

9.1.2.2 I would like to apply for a waiver of full or partial fees under Regulation 5.21A of the EPBC Regulations

☐ Yes ☒ No

9.1.3 Contact (for an organisation - the contact details of the person authorised to sign on behalf of the organisation)

First name Sean  
Last name Mc Goldrick  
Job title Director, Marinus Link  
Phone (03) 6271 6001  
Mobile  
Fax  
Email OfficeoftheCEO@tasnetworks.com.au  
Primary address 1-7 Maria St, Lenah Valley, 7009, TAS, Australia  
Address

Declaration: Person proposing the action (To be signed by the person at 9.1.3)

I, Sean McGoldrick (Director, Marinus Link), declare that to the best of my knowledge the information I have given on, or attached to the EPBC Act Referral is complete, current and correct. I understand that giving false or misleading information is a serious offence. I declare that I am not taking the action on behalf or for the benefit of any other person or entity.

Signature: Sean McGoldrick Date: 30.9.21

I, \_\_\_\_\_, the person proposing the action, consent to the designation of \_\_\_\_\_ as the proponent for the purposes of the action described in this EPBC Act Referral.

Signature: \_\_\_\_\_ Date: \_\_\_\_\_





Note: PDF may contain fields not relevant to your application. These fields will appear blank or unticked. Please disregard these fields.

### Proposed designated proponent

#### 9.2.1 Is the proposed designated proponent an organisation or business?

☒ Yes ☐ No

#### Organisation

Organisation name (as registered for ABN/ACN)

MARINUS LINK PTY LTD

Business name

Marinus Link

ABN

47630194562

ACN

Business address

1-7 Maria St, Lenah Valley, 7009, TAS, Australia

Postal address

Main Phone number

1300 137 008

Fax

Primary email address

team@marinuslink.com.au

Secondary email address

#### 9.2.2 Contact (for an organisation - the contact details of the person authorised to sign on behalf of the organisation)

First name

Sean

Last name

Mc Goldrick

Job title

Director, Marinus Link

Phone

(03) 6271 6001

Mobile

Fax

Email

OfficeoftheCEO@tasnetworks.com.au

Primary address

1-7 Maria St, Lenah Valley, 7009, TAS, Australia

Address

#### Declaration: Proposed Designated Proponent

I, Sean McGoldrick (Director, Marinus Link), the proposed designated proponent, consent to the designation of myself as the proponent for the purposes of the action described in this EPBC Act Referral.

Signature: Sean McGoldrick Date: 30.9.21



Note: PDF may contain fields not relevant to your application. These fields will appear blank or unticked. Please disregard these fields.

### Referring party (person preparing the information)

#### 9.3.1 Is the referring party an organisation or a business?

☒ Yes ☐ No

#### Organisation

Organisation name (as registered for ABN/ACN)

MARINUS LINK PTY LTD

Business name

Marinus Link

ABN

47630194562

ACN

Business address

1-7 Maria St, Lenah Valley, 7009, TAS, Australia

Postal address

Main Phone number

1300 137 008

Fax

Primary email address

team@marinuslink.com.au

Secondary email address

#### 9.3.2 Contact (for an organisation - the contact details of the person authorised to sign on behalf of the organisation)

First name

Kate

Last name

Guard

Job title

Environment and Planning Lead - Marinus Link

Phone

0474 889 130

Mobile

Fax

Email

kate.guard@tasnetworks.com.au

Primary address

1-7 Maria St, Lenah Valley, 7009, TAS, Australia

Address

#### Declaration: Referring party (person preparing the information)

I, Kate Guard (Environment and Planning Lead - Marinus Link) , declare that to the best of my knowledge the information I have given on, or attached to this EPBC Act Referral is complete, current and correct. I understand that giving false or misleading information is a serious offence.

Signature: *Kate Guard* Date: 29 September 2021



Note: PDF may contain fields not relevant to your application. These fields will appear blank or unticked. Please disregard these fields.

## Appendix A

### Attachment

Document Type	File Name
action_area_images	Figures1-6.pdf
action_area_images	Action Area.kml
supporting_tech_reports	Att_1_Prelim_impact_assessment.pdf
supporting_tech_reports	Att_2_Terrestrial_Ecology.pdf
supporting_tech_reports	Att_3_Marine_Ecology_Resource.pdf
supporting_tech_reports	Att_4_NearshoreMarineBenthicBaseline.pdf
supporting_tech_reports	*Att_5_CulturalHeritage.pdf
supporting_tech_reports	Att_6_Maritime_archaeology.pdf
supporting_tech_reports	*Att_5_Cultural_heritage.pdf
impact_reduction_docs	Att_7_Marinus-Link-Route-Options-Report-February-2021.pdf

## Appendix B

### Coordinates

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\* NOT PUBLISHED - SENSITIVE



Note: PDF may contain fields not relevant to your application. These fields will appear blank or unticked. Please disregard these fields.

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