

Appendix A TGP Offshore Environmental Risk Assessment (ERA) / Environmental Aspects and Impacts Register

Ref No.	Activity	Environmental Aspect	Source of Risk	Potential Impact	Inherent Risk			Controls & Mitigation Measures	Residual Risk			ALARP Outcome	Acceptability Outcome
					Likelihood	Consequence	Risk		Likelihood	Consequence	Risk		
		Elements of an organisations activities that can interact with the environment	Source of potential harm or situation with potential to cause impact (including unplanned interactions)	Any change to the environment resulting from an environmental aspect									
1	Pipeline inspection and maintenance activities	Presence of inspection / maintenance vessel	Vessel movements / timing and location of activities	Vessel strike resulting in injury to, or death of, marine megafauna (including listed species)	Highly Unlikely	Moderate	Medium	<ul style="list-style-type: none"> Vessel Masters will be briefed on caution and 'no approach' zones and other marine megafauna interaction management controls Vessel Master or delegate will be on duty at all times. Crew members on active duty will report observations of megafauna in the caution zone to the Vessel Master or delegate. Vessel Crew have completed an environmental induction covering the requirements for vessel-marine fauna interaction management, including a requirement to notify the bridge if marine megafauna are sighted in the caution zone. Vessel Master will ensure management controls for interactions with cetaceans are in accordance with Part 8 of the EPBC Regulations and Wildlife (Marine Mammals) Regulations 2009, where practicable to do so. Vessel Master will ensure management controls for interactions with seal colonies are in accordance with Part 3(9) of the Wildlife (Marine Mammals) Regulations 2009, where practicable to do so. Short term, infrequent vessel activity along pipeline route Vessel and associated equipment (e.g. ROV / AUV, SSS) either stationary or moving slowly during inspection and maintenance activities along pipeline route. 	Highly Unlikely	Minor	Low	ALARP	Acceptable
2			Disruption to other marine users (e.g. recreational vessels, fishing vessels and commercial shipping traffic)	Highly Unlikely	Minor	Low	<ul style="list-style-type: none"> Pipeline route shown on navigation charts. Pre-start notifications prior to commencement of inspection and maintenance activities – AMSA (AUSCOAST warning) and AHS (Notice to Mariners). Relevant stakeholders notified of inspection and maintenance activities approximately four weeks and again one week prior to commencement. Short term, infrequent vessel activity along pipeline route 	Remote	Slight	Low	ALARP	Acceptable	
3			Vessel lighting	Disturbance to marine fauna (including altered feeding, nesting, nursing, mating or migrating behaviour)			Not Credible	No control measures identified.					
4			Vessel noise	Disturbance to marine fauna (including altered feeding, nursing, mating or migrating behaviour)	Unlikely	Minor	Medium	<ul style="list-style-type: none"> Vessel Master will ensure management controls for interactions with cetaceans are in accordance with Part 8 of the EPBC Regulations and Part 3(9) of the Wildlife (Marine Mammals) Regulations 2009, where practicable to do so. Short term, infrequent vessel activity along pipeline route 	Highly Unlikely	Slight	Low	ALARP	Acceptable
5			Vessel mooring / anchoring	Disturbance / damage to sensitive benthic marine fauna and ecosystems	Unlikely	Slight	Low	<ul style="list-style-type: none"> Inspection and maintenance vessels will avoid anchoring (unless in an emergency). Pipeline route selected to avoid areas of significant benthic habitat. 	Highly Unlikely	Slight	Low	ALARP	Acceptable
6				Interference to commercial fishing activities (including damage to fishing equipment)	Unlikely	Minor	Low	<ul style="list-style-type: none"> Inspection and maintenance vessels will avoid anchoring (unless in an emergency) 	Highly Unlikely	Slight	Low	ALARP	Acceptable
7			Vessel biofouling	Introduction of exotic marine pests, potentially displacing native species, altering ecosystem function and affecting biodiversity	Highly Unlikely	Minor	Low	<ul style="list-style-type: none"> Biofouling records maintained in accordance with IMO Guidelines for the Control and Management of Ships' Biofouling to Minimise the Transfer of Invasive Aquatic Species. Biofouling risk assessment undertaken in accordance with the National Biofouling Management Guidance for the Petroleum Production and Exploration Industry (DAWR, 2009), shows low risk of introducing IMS. All immersible retrievable - equipment has been cleaned and / or inspected in accordance with National Biofouling Management Guidance for the Petroleum Production and Exploration Industry prior to commencement of the activity. 	Highly Unlikely	Slight	Low	ALARP	Acceptable
8			Vessel ballast water	Introduction of exotic marine pests, potentially displacing native species, altering ecosystem function and affecting biodiversity	Highly Unlikely	Minor	Low	<ul style="list-style-type: none"> Approved Ballast Water Management Plan and Ballast Water Management Certificate in accordance with IMO Ballast Water Management Convention – Guidelines for Ballast Water Management and Development of Ballast Water Management Plans. Compliance with the Australian Ballast Water Management Requirements (DAWR, 2016). Where applicable (if the vessel has mobilised from outside Australian waters), submission of detailed pre-arrival information to the DAWR, via the Maritime Arrivals Reporting System (MARS), no later than 12 hours prior to arrival in Australian waters. Maintenance of ballast water record system 	Highly Unlikely	Slight	Low	ALARP	Acceptable
9			Vessel deck drainage bilge (oily wastewater)	Very minor, localised, short-term contamination of the marine environment; and visible pollution / reduction of visual amenity	Unlikely	Slight	Low	<ul style="list-style-type: none"> Vessel oily water treated in MARPOL –compliant oily water separator (OWS) (as appropriate to class). For vessels (as appropriate to class), treated oily water discharge permitted if: <ul style="list-style-type: none"> Vessel is proceeding en-route Treatment is via a MARPOL-compliant OWS; The discharged oil-in-water (OIW) content is < 15 ppm; Oil Detection Monitoring Equipment (ODME) and control equipment are operating. 	Highly Unlikely	Slight	Low	ALARP	Acceptable
10			Dropped objects from vessels	Disturbance / damage to sensitive benthic marine fauna and ecosystems	Unlikely	Slight	Low	<ul style="list-style-type: none"> Vessel lifting equipment will be operated in accordance with lifting procedures. Vessel lifting equipment will be regularly maintained in accordance with the PMS schedule. Securing and restraining of loads on-board the vessel. Compliance with weather limitations during inspection and maintenance activities and vessel to seek shelter in the event of extreme weather. Lost equipment recovered where safe and practicable to do so. Pipeline route selected to avoid areas of significant benthic habitat. 	Highly Unlikely	Slight	Low	ALARP	Acceptable

11		Vessel exhaust emissions	Increased levels of atmospheric pollution (NO _x , SO _x and particulates) and greenhouse gases, leading to localised reduction in air quality; reduced visual amenity.	Unlikely	Slight	Low	<ul style="list-style-type: none"> Vessels (as appropriate to class) hold valid International Air Pollution Prevention (IAPP) certification and operate in accordance with a Ship Energy Efficiency Management Plan Vessels with diesel engines >130kW hold valid Engine International Air Pollution Prevention certification for each engine and NO_x emissions comply with MARPOL Annex VI Regulation 13. Sulphur content of any fuel used on board does not exceed 3.5% m/m. Vessels are required to adhere to a planned maintenance system that ensures engines and thrusters are maintained for optimum performance during inspection and maintenance activities. Infrequent, short term nature of vessel activities 	Highly Unlikely	Slight	Low	ALARP	Acceptable
12		Vessel sewage / grey water	Very minor, localised, short-term contamination of the marine environment; and visible pollution / reduction of visual amenity	Unlikely	Slight	Low	<ul style="list-style-type: none"> Sewage treated in MARPOL-compliant STP. Discharge of comminuted and disinfected sewage using a MARPOL-compliant STP at a distance of no less than 3NM from nearest land, discharge of untreated sewage at a distance of no less than 12 NM from nearest land. STP maintained in accordance with the PMS schedule. 	Highly Unlikely	Slight	Low	ALARP	Acceptable
13		Solid or hazardous / chemical wastes from vessel	Injury to, or death of, marine fauna through entanglement in, or ingestion of, plastic and other solid wastes; and very minor, localised visible pollution / reduction of visual amenity	Highly Unlikely	Minor	Low	<ul style="list-style-type: none"> Food waste macerated to <25 mm (using an onboard macerator) before discharge Macerated putrescible waste is only discharged overboard when the vessel is greater than 3 NM from the coastline and while proceeding en-route. Un-macerated putrescible waste is only discharged overboard when the vessel is more than 12 NM from the coastline and while proceeding en-route. Macerator maintained in accordance with the PMS schedule. Garbage Management Plan in accordance with MARPOL Annex V. A Garbage Record Book / log in accordance with MARPOL Annex V. Handling of solid and hazardous wastes on-board will comply with the requirements of MARPOL Annex V including measures such as; <ul style="list-style-type: none"> All solid and hazardous wastes generated at sea during the activity will be retained on the vessel and disposed of onshore (excluding bilge water / deck drainage, foodwaste and sewage). All waste material that could reasonably be lost overboard is stored securely (e.g. lidded bins). All wastes including hazardous wastes and chemicals will be segregated into clearly marked containers. Any liquid waste storage on deck must have at least one barrier (i.e. bunding) to prevent leakage or spillage entering the marine environment. 	Highly Unlikely	Minor	Low	ALARP	Acceptable
14		Minor chemical spill from deck (less than 75 L)	Very minor, localised, short-term contamination of the marine environment; and visible pollution / reduction of visual amenity	Unlikely	Slight	Low	<ul style="list-style-type: none"> Hydraulic oils, lubricants and chemicals stored and, where practicable, handled within containment facilities, designed in accordance with relevant Australian / international codes and standards, to prevent the release of spill substances to the marine environment. Vessels have a SOPEP (or equivalent) in accordance with MARPOL Annex I Spill kits available and maintained in accordance with the SOPEP (or equivalent). Spill training and exercises undertaken in accordance with the SOPEP (or equivalent). 	Highly Unlikely	Slight	Low	ALARP	Acceptable
15		Fuel spill (maximum volumes of 40,000 L) due to vessel collision / grounding	Contamination of the local marine environment leading to degradation of marine ecosystems and potential toxicity impacts on marine biota Disturbance to marine fauna. Oiling of marine animals and coastlines Visible pollution / reduction of visual amenity; Disruption to other marine users such as commercial fishing and recreational users	Unlikely	Moderate	Medium	<ul style="list-style-type: none"> Vessels will meet the crew competency, navigation equipment, watchkeeping and radar requirements of AMSA Marine Order Part 3 (Seagoing qualifications) and Part 90 (Prevention of collisions). Compliance with weather limitations during inspection and maintenance activities and vessel to seek shelter in the event of extreme weather. Pipeline route shown on navigation charts. Pre-start notifications prior to commencement of inspection and maintenance activities – AMSA (AUSCOAST warning) and AHS (Notice to Mariners). Relevant stakeholders notified of inspection and maintenance activities approximately four weeks and again one week prior to commencement. Vessels have a SOPEP (or equivalent) in accordance with MARPOL Annex I Spill kits available and maintained in accordance with the SOPEP (or equivalent). Spill training and exercises undertaken in accordance with the SOPEP (or equivalent). Short term, infrequent vessel activity along pipeline route 	Highly Unlikely	Minor	Low	ALARP	Acceptable
16	Use of ROV / AUV	Timing and location of activities / operation of ROV / AUV along pipeline route	Disruption to other marine users such as commercial fisheries (including damage to fishing equipment) and recreational users	Highly Unlikely	Minor	Low	See 2 above.	Highly Unlikely	Slight	Low	ALARP	Acceptable
17		Hydraulic oil leak (maximum volume 100 L)	Very minor, localised, short-term contamination of the marine environment; and visible pollution / reduction of visual amenity	Unlikely	Slight	Low	<ul style="list-style-type: none"> ROV operations conducted in accordance with IMCA R 004 'Code of Practice for the safe and efficient operation of Remotely Operated Vehicles'. Maintenance of ROV hydraulic hoses in accordance with PMS schedule. Vessels have a SOPEP (or equivalent) in accordance with MARPOL Annex I Spill kits available and maintained in accordance with the SOPEP (or equivalent). Spill training and exercises undertaken in accordance with the SOPEP (or equivalent). Infrequent deployment of ROV / AUV Small volume of hydraulic oil (maximum 100 L) Closed loop system, no planned discharge and use of low environmental impact hydraulic fluids 	Highly Unlikely	Slight	Low	ALARP	Acceptable
18	Use of SSS	Underwater noise	Injury or disturbance to marine fauna (including altered feeding, nursing, mating or migrating behaviour)	Highly Unlikely	Minor	Low	<ul style="list-style-type: none"> Closed loop system, no planned discharge and use of low environmental impact hydraulic fluids Observations for whales within a 3 km radius of the survey vessel should commence at least 90 minutes prior to the use of acoustic sources exceeding 140 dB. Discharge of acoustic services exceeding 140 dB are not to commence unless no whales are found within a minimum distance of 3km from the vessel. Start-up procedures will be delayed if whales are encountered within the 3km radius until they are observed to be travelling beyond this zone. See also 4 above 	Highly Unlikely	Slight	Low	ALARP	Acceptable

19	Pipeline operation	Loss of pipeline integrity	Gas escape (max potential escape of 20T J)	Injury to / death of marine fauna (in the immediate vicinity) or disturbance to marine fauna (including altered feeding, nursing, mating or migrating behaviour) Scouring / physical damage to benthic communities; and generation of a sediment plume in the water column, potentially leading to smothering of, or reduced light penetration to, benthic communities Temporary and localised change in water quality	Unlikely	Moderate	Medium	NOPSEMA -accepted Offshore Safety Case	Highly Unlikely	Minor	Low	ALARP	Acceptable
		Pipeline spans (unsupported)	Vortex induced vibrations (VIV) along the pipeline leading to underwater noise	Disturbance to marine fauna (including altered feeding, nursing, mating or migrating behaviour)			Not Credible						
		Pigging	Transitory underwater noise from pig movement through the pipeline	Disturbance to marine fauna (including altered feeding, nursing, mating or migrating behaviour)			Not Credible						
20	Pipeline maintenance	Corrections of spans outside specification	Jetting to remove high points	Disturbance / damage to benthic marine communities from physical damage and increased turbidity from jetting process	Unlikely	Minor	Low	<ul style="list-style-type: none"> Maintenance activity procedures Pipeline route selected to avoid areas of significant benthic habitat. 	Remote	Trivial	Low	ALARP	Acceptable
21			Placement and filling of grout bags	Disturbance / damage to benthic marine communities	Unlikely	Minor	Low	<ul style="list-style-type: none"> Maintenance activity procedures Vessel lifting equipment will be operated in accordance with lifting procedures. Vessel lifting equipment will be regularly maintained in accordance with the PMS schedule. Compliance with weather limitations during inspection and maintenance activities and vessel to seek shelter in the event of extreme weather. Pipeline route selected to avoid areas of significant benthic habitat. 	Remote	Trivial	Low	ALARP	Acceptable
22		Repair of concrete coating	Placement of concrete mattress over damaged area	Disturbance / damage to benthic marine communities	Unlikely	Minor	Low	<ul style="list-style-type: none"> Maintenance activity procedures Vessel lifting equipment will be operated in accordance with lifting procedures. Vessel lifting equipment will be regularly maintained in accordance with the PMS schedule. Compliance with weather limitations during inspection and maintenance activities and vessel to seek shelter in the event of extreme weather. Pipeline route selected to avoid areas of significant benthic habitat. 	Remote	Trivial	Low	ALARP	Acceptable
23		Removal of dropped objects	Environmental impacts and risks associated with removal of dropped objects are no different from those related to use of vessels and ROV / AUV equipment assessed above. In the ROV and SSS surveys conducted to date, the objects observed on or near the pipeline has not warranted any removal activity as they were considered small and harmless to the integrity of the pipeline. Dropped objects are prioritised along with spanning issues in any inspection surveys.										
24		Replacement of anodes	Environmental impacts and risks associated with replacement of anodes are no different from those related to use of vessels and ROV / AUV equipment assessed above. Existing CP anodes are currently depleting in line with the original design established for TGP. Eventual anode replacement will need to be considered in the 2030s.										

Appendix B TGP Regulatory Requirements Summary

Legislation	Summary of relevance	Application to TGP personnel
International agreements		
International Convention for the Prevention of Pollution from Ships (MARPOL 73/78)	<p>International marine environmental convention designed to minimise pollution of the seas including oil and exhaust pollution, sewage, garbage, air pollution and noxious liquid substances carried in bulk.</p> <p>Australia is a signatory to this convention and as such, is responsible for certifying compliance with MARPOL's pollution prevention standards for Australian registered ships. Requirements of the convention are managed by the Australian Maritime Safety Authority and implemented under Commonwealth legislation including <i>Protection of the Sea (Prevention of Pollution from Ships) 1983</i> and state legislation including the <i>Pollution of waters by Oils and Noxious Substances Act 1986</i> (Vic) and <i>Pollution of Waters by Oil and Noxious Substances Act 1987</i> (Tas).</p>	Offshore operations are to meet MARPOL standards.
Commonwealth		
Aboriginal and Torres Strait Islander Heritage Protection Act 1984	Enables the Commonwealth government to preserve and protect areas or objects that are of particular significance to Aboriginals from injury or desecration. The Act protects areas on land and within Australian waters and enables the Government to have the power to enforce and intervene where necessary.	Currently, no aboriginal areas/objects have been identified along the pipeline route, however; if any objects/areas are discovered the requirements of the Act are to be implemented.
Australian Heritage Council Act 2003	This Act identifies areas of heritage value listed on the Register of the National Estate and sets up the Australian Heritage Council and its functions.	Currently, no heritage areas have been identified along the pipeline route, however; if any areas are discovered the requirements of the Act are to be implemented.

Legislation	Summary of relevance	Application to TGP personnel
Biosecurity Act 2015 (& Regulation 2016)	<p>From 16 June 2016, the Biosecurity Act 2015 (Biosecurity Act) replaces the Quarantine Act 1908 as Australia's primary piece of legislation used to manage the biosecurity risks posed by ballast water and sediments. For the petroleum industry, it regulates the condition of vessels and drill rigs entering Australian waters with regard to ballast water and hull fouling.</p> <p>The regulation stipulates that all information regarding the voyage of the vessel and the ballast water is declared correctly to the biosecurity officers.</p> <p>The survey and support vessels will adhere to biosecurity guidelines regarding biosecurity clearance to enter Australian ports and Territorial waters.</p>	Offshore operations are to meet the requirements of the Biosecurity Act and Regulations.
Environment Protection and Biodiversity Conservation Act 1999	<p>Key Environmental Legislation in Australia. Identifies, protects and provides a management framework for matters of national environmental significance. These include: World Heritage properties; national heritage places; wetlands of international importance (Ramsar wetlands); threatened species (flora and fauna) and ecological communities; migratory species and Commonwealth marine areas.</p> <p>Outlines offences under the act – Specifically, it is an offence to take, kill, injure, move, trade or keep a member of a listed Commonwealth species or ecological community or knowingly damage any part of a critical habitat (those listed above).</p> <p>Note: The Act does not explicitly regulate shipping operations but it has jurisdiction over certain shipping activities, particularly in relation to actions that are likely to have a significant impact on a matter of national environmental significance. The jurisdiction mainly relates to actions or omissions in the operation of ships that damage, or are likely to damage, the marine environment and also includes a regulatory power for controlling non-native species that could be introduced via shipping.</p>	<p>Any encounters with matters of environmental significance must adhere to requirements of this Act.</p> <p>Environmental incidents require reporting under this Act.</p>
Environment Protection (Sea Dumping) Act 1981	<p>Regulates the dumping at sea of controlled material (including certain wastes and other matter), the incineration at sea of controlled material, loading for the purpose of dumping or incineration, export for the purpose of dumping or incineration, and the placement of artificial reefs. These activities are prohibited unless a special permit has been granted.</p> <p>The Act gives effect to Australia's obligations under the 1996 Protocol to the Convention on the Prevention of Marine Pollution by Dumping of Wastes and Other Matter, 1972 to prevent marine pollution by dumping of wastes and other matter. (thereby also fulfilling Australia's international obligations under the London Dumping Convention).</p>	TGP operations are to adhere to requirements of this Act.

Legislation	Summary of relevance	Application to TGP personnel
Historic Shipwrecks Act 1976	<p>Protects historic shipwrecks and associated relics and provides for the establishment of protected zones around historic shipwrecks in Commonwealth waters. Specifically, all shipwrecks and associated relics more than 75 years old are protected under the Act. A wreck less than 75 years old may also be protected by a special declaration of the Minister. It is an offence to destroy or cause damage to an historic shipwreck or relic, cause interference with an historic shipwreck or relic, cause the disposal of an historic shipwreck or relic, or cause an historic shipwreck or relic to be removed from Australia.</p> <p>Each of the States has complementary legislation, which protects historic shipwrecks in State waters.</p>	Currently, no shipwrecks have been identified along the pipeline route, however; if any shipwrecks are discovered the requirements of the Act are to be implemented.
National Environment Protection Council Act 1994	The Council develops (in conjunction with other State authorities through the Intergovernmental Agreement on the Environment) consistent environmental standards to be adopted between states. These requirements take the form of a National Environmental Protection Measure (NEPM) and include the National Pollutant Inventory.	TGP operations are to adhere to requirements of this Act.
National Greenhouse and Energy Reporting Act 2007	Introduces a single national reporting framework for the reporting and dissemination of information about greenhouse gas emissions, greenhouse gas projects and energy use and the production of corporations.	TGP operations are to adhere to requirements of this Act.
Navigation Act 2012	This Act regulates ship-related activities in Australian waters, including elements of a number of international agreements such as the International Convention for the Prevention of Pollution from Ships (MARPOL 73/78) relating to equipment and construction of ships. As the inspection and maintenance activity is a vessel-based survey in Australian waters, it is subject to the Act.	TGP operations are to adhere to requirements of this Act.
Offshore Petroleum and Greenhouse Gas Storage Act 2006	Offshore petroleum operations beyond the three nautical mile limit are governed by this Act. The Act sets out a basic framework of rights, entitlements and responsibilities for governments and industry. The legislation allows for five types of title to be granted: exploration permits, retention leases, production licenses, pipelines licenses and infrastructure licenses. The Act is supported by regulations and directions covering environmental management (see below).	TGP operations are to adhere to requirements of this Act.

Legislation	Summary of relevance	Application to TGP personnel
Offshore Petroleum and Greenhouse Gas Storage (Environment) Regulations 2009	<p>These regulations ensure that any petroleum activity is consistent with principles of ecologically sustainable development and in accordance with an environment plan that has appropriate environmental performance objectives and standards as well as measurement criteria for determining whether those objectives and standards are met.</p> <p>Specifically, the regulations outline the requirements of Environment Plans, revisions, incident reporting requirements and outlines records to be kept.</p>	<p>The EP must adhere to EP requirements under the regulations.</p> <p>Incident reporting is required under these regulations.</p>
Ozone Protection and Synthetic Greenhouse Gas Management Act 1989	<p>Regulates the manufacture, importation and use of ozone depleting substances (typically used in fire-fighting equipment and refrigerants).</p> <p>Applicable to the handling of any ozone depleting substances.</p>	TGP operations are to adhere to requirements of this Act.
Protection of the Sea (Harmful Antifouling Systems) Act 2006	This Act regulates the use of antifouling compounds and systems in Australian waters. Vessels will be required to have a hull antifouling system in place and will be subject to this Act, in particular Part 2 Application or use of a harmful antifouling system and Part 3 Antifouling certificates and antifouling declarations.	TGP operations are to adhere to requirements of this Act.
Protection of the Sea (Prevention of Pollution from Ships) Act 1983	Act to prevent pollution of air and water by oil, noxious and harmful substances including sewerage and garbage. Prohibits discharge of substances into Australian waters, carriage of certain substances and requirements for onboard emergency plans including oil spills and noxious liquid pollution. Also outlines requirements to retain reports on incidents involving oil spills.	Operations to adhere to requirements of this Act.
Protection of the Sea (Powers of Intervention Act) 1981	This Act gives AMSA appropriate powers to intervene in shipping operations to protect the sea from pollution by oil and other noxious substances discharged from ships.	TGP operations are to adhere to requirements of this Act.
Protection of the Sea (Civil Liability for Bunker Oil Pollution Damage) Act 2008	<p>Sets up a compensation scheme for those who suffer damage caused by spills of oil that is carried as fuel in ships' bunkers.</p> <p>There is an obligation on ships over 1,000 gross tonnage to carry insurance certificates when leaving/entering Australian ports or leaving/entering an offshore facility within Australian coastal waters.</p> <p>The vessels undertaking inspection and maintenance activities will hold the necessary insurance certificates.</p>	TGP operations are to adhere to requirements of this Act.

Legislation	Summary of relevance	Application to TGP personnel
Protection of the Sea (Shipping Levy) Act 1981	Provides that where, at any time during a quarter when a ship with tonnage length of no less than 24 m was in an Australia port, there was on board the ship a quantity of oil in bulk weighing more than 10 t, a levy is imposed in respect of the ship for the quarter. The survey and support vessels will adhere to the shipping levy.	TGP operations are to adhere to requirements of this Act.
Submarine Cables and Pipelines Protection Act 1963	This Act applies to submarine cables or pipelines beneath the high seas or in the exclusive economic zone. It prevents persons from breaking, injuring, interrupting or obstructing submarine pipelines.	If damage occurs to the pipeline, offences and liabilities implemented as outlined in the Act.
Victoria		
Aboriginal Heritage Act 2006	Enables the protection, preservation and management of Victoria's aboriginal heritage (including places, objects and human remains) through an Advisory Council and Registered Aboriginal Parties which represent Aboriginal people.	Currently, no aboriginal areas/objects have been identified along the pipeline route, however; if areas or objects are discovered the requirements of the Act are to be implemented.
Coastal Management Act 1995	The objectives of this Act include the planning and management of the use of Victorian coastal resources on a sustainable basis for recreation, conservation, tourism, commerce and similar uses; protecting and maintaining areas of environmental significance on the coast; and maintaining and improving coastal water quality. This is achieved via the implementation of Coastal Management plans to guide planning and management at a regional level. Under this legislation a person must not use or develop coastal Crown land unless the written consent of the Minister has first been obtained. Coastal crown land also includes marine environments from shore to 3 NM including the seabed.	Currently, TGPPL have no plans for any further projects within coastal area, however; if any projects are considered the requirements of the Act are to be implemented.

Legislation	Summary of relevance	Application to TGP personnel
Emergency Management Act 2013	<p>Provides for the establishment of governance arrangements for emergency management in Victoria, including the Office of the Emergency Management Commissioner and an Inspector-General for Emergency Management.</p> <p>Provides for integrated and comprehensive prevention, response and recovery planning, involving preparedness, operational co-ordination and community participation, in relation to all hazards. These arrangements are outlined in the Emergency Management Manual Victoria.</p> <p>Administered by the Department of Justice and Regulation (Inspector General for Emergency Management).</p>	TGP operations are to adhere to requirements of this Act.
Environment Protection Act 1970	<p>Key environmental pollution legislation in Victoria. The main environmental legislation for the protection of the environment from pollution administered by the Environment Protection Authority Victoria (EPAV). The EPAV is responsible for preparing State Environment Protection Policies relating to improving the air, land and water environments by managing waters, control of noise and control of pollution (see summaries below). Waste Management Policies are also issued to control specific types of pollution. The EPA issues approvals, licences, permits, pollution abatement notices and fines in relation to pollution.</p>	<p>Pollution management guidelines are to adhere to requirements of the Act.</p> <p>Environmental Pollution is to be reported to EPA's general hotline: 1300 372 842</p>
Flora and Fauna Guarantee Act 1988	<p>Key flora and fauna legislation in Victoria. Establishes a legal and administrative structure to enable and promote the conservation of Victoria's native flora and fauna.</p> <p>It also provides procedures which can be used for the conservation, management or control of flora and fauna and the management of potentially threatening processes. This Act also establishes the Scientific Advisory Committee provides the lists of threatened species and their status in Victoria, and advises the Minister of new/potential listings.</p>	Any encounters with threatened flora and fauna should adhere to requirements of the Act.
Heritage Act 1995	Protects and conserves places and objects of cultural heritage significance through the Heritage Council and Victorian Heritage Register. Outlines offences, specifically, it is an offence to damage or remove a cultural object or place.	Currently, no heritage areas/objects have been identified along the pipeline route, however; if any areas/objects are discovered the requirements of the Act are to be implemented.
Marine (Drug, Alcohol and Marine Pollution) Act 1988	Manages pollution of State waters, implements International marine conventions and provides a framework for safe operation of vessels in State Waters.	All offshore vessels are to adhere to requirements of the Act.

Legislation	Summary of relevance	Application to TGP personnel
Marine Safety Act 2010	<p>This Act provides for safe marine operations in Victoria, including imposing safety duties on owners, managers and designers of vessels, marine infrastructure and marine safety equipment; marine safety workers, masters and passengers on vessels; regulation and management of vessel use and navigation in Victorian State waters; and enforcement provisions of Police Officers and the Victorian Director of Transport Safety. This Act reflects the requirements of international conventions – Convention on the International Regulations for Preventing Collisions at Sea and the International Convention for the Safety of Life at Sea.</p> <p>The Act also defines marine incidents and the reporting of such incidents to the Victorian Director of Transport Safety.</p> <p>Administered by Maritime Safety Victoria.</p>	All offshore vessels are to adhere to requirements of the Act.
National Parks Act 1975	<p>Established a number of different types of reserve areas onshore and offshore, including Marine National Parks and Marine Sanctuaries. A lease, licence or permit under the OPGGS Act that is either wholly or partly over land in a marine national park or marine sanctuary is subject to the National Parks Act 1975 and activities within these areas require Ministerial consent before activities are carried out.</p> <p>Administered by the DELWP.</p>	Currently, TGPPL have no plans for any further projects within National Parks, however; if any projects are considered the requirements of the Act are to be implemented.
Offshore Petroleum and Greenhouse Gas Storage Act 2010	<p>A framework for regulating petroleum exploration and recovery activities and petroleum facilities in Victorian Waters including:</p> <ul style="list-style-type: none"> construction and operation of infrastructure facilities relating to petroleum or greenhouse gas substances; and construction and operation of pipelines for conveying petroleum or greenhouse gas substances. 	Operations to adhere to requirements of the Act.
Offshore Petroleum and Greenhouse Gas Storage Regulations 2011	<p>Provide a framework for the elimination and minimisation, so far as is practicable, of the environmental, health and safety hazards and risks involved in undertaking petroleum and greenhouse gas activities. Specifically, the regulations outline the requirements of Environment Plans, revisions, incident reporting requirements and outlines records to be kept.</p>	<p>The EP must adhere to EP requirements under the regulations.</p> <p>Incident reporting is required under these regulations.</p>

Legislation	Summary of relevance	Application to TGP personnel
Pollution of waters by Oils and Noxious Substances Act 1986	The purpose of this Act is to make certain provisions for the protection of the sea and certain waters from pollution by oil and other noxious substances and to implement the MARPOL Convention. This Act is jointly administered by EPA and the Department of Transport.	TGP operations are to adhere to requirements of this Act.
SEPP – Waters of Victoria 2003	Sets a framework to protect, rehabilitate and ultimately sustain the environmental quality of Victoria's streams, lakes, estuaries, and marine environments and the uses of those environments. Provides clear guidance on how to protect waterways.	Refer to policy for waterway management guidelines. Environmental Pollution is to be reported to EPA's general hotline: 1300 372 842
Wildlife Act 1975	Establishes a framework to protect and conserve wildlife including extinction prevention and sustainable use of. It prohibits and regulates the conduct of persons engaged in activities concerning or related to wildlife, making it an offence to harm wildlife in Victoria.	Any encounters with, or activities that may impact on wildlife must adhere to requirements of this Act (unless exclusions apply).
Tasmania		
Aboriginal Relics Act 1975	Protects and provides management guidelines for Aboriginal "relics", "protected objects" and "protected sites". Outlines that it is an offence for any person (including government agencies) to damage, destroy, conceal, deface or otherwise interfere with a relic, object or a protected site.	Currently, no aboriginal relics/objects/sites have been identified along the pipeline route, however; if any of the above are discovered the requirements of the Act are to be implemented.
Emergency Management Act 2006	This Act provides for the protection of life, property and the environment in a declared State emergency by outlining prevention, preparedness, response and recovery procedures. Administered by the Tasmania State Emergency Service.	TGP operations are to adhere to requirements of this Act.
Environmental Management and Pollution Control Act 1994	Key environmental management legislation in Tasmania. Provides a framework for prevention, reduction and remediation of environmental harm from pollution and waste via the regulator - the Environment Protection Agency. Associated Environment Protection Policies guide specific areas of environmental management (see below).	All Environmental Management activities are to adhere to this Act. Incident reporting is required under this Act.

Legislation	Summary of relevance	Application to TGP personnel
Historic Cultural Heritage Act 1995	Protects listed heritage places, making it an offence to carry out works on a listed heritage place without approval of the Tasmanian Heritage Council (or the local council, if the Heritage Council has delegated its powers).	Currently, no cultural heritage places have been identified along the pipeline route, however; if places are discovered the requirements of the Act are to be implemented.
Nature Conservation Act 2002	This Act makes provisions with respect to the conservation and protection of the fauna, flora and geological diversity of the State, to provide for the declaration of national parks and other reserved land and for related purposes	TGP operations are to adhere to requirements of this Act.
National Parks and Reserves Management Act 2002	This Act provides for the management of national parks and other reserved land. The act repeals the National Parks and Wildlife Act 1970 and related Acts and for related purposes	TGP operations are to adhere to requirements of this Act.
Petroleum Submerged Lands Act 1982	This Act makes provisions with respect to certain offshore petroleum activities adjacent to the coast of the State of Tasmania and to provide for related matters (refer below).	TGP operations are to adhere to requirements of this Act.
Petroleum (Submerged Lands) (Management of Environment) Regulations 2012	Provide administrative guidelines for environment management of petroleum activities. Specifically, the regulations outline the requirements of Environment Plans, revisions, incident reporting requirements and outlines records to be kept.	The EP must adhere to EP requirements under the regulations. Incident reporting is required under these regulations.
Pollution of Waters by Oil and Noxious Substances Act 1987	Protects Tasmanian waters from discharges of oil from ships and other matters that occur within Tasmania's jurisdiction. It also gives effect in Tasmania to the international MARPOL convention on marine pollution.	TGP operations to adhere to requirements of this Act.

Legislation	Summary of relevance	Application to TGP personnel
State Policy on Water Quality Management (1997)	The State Policy on Water Quality Management (1997), also known as the Water Quality Policy, provides a framework for the development of ambient water quality objectives and the management and regulation of point and diffuse sources of emissions to surface waters (including coastal waters) and groundwater.	TGP operations are to adhere to requirements of this Act.
Threatened Species Protection Act 1995	Aims to protect, manage and promote conservation of threatened plants and animals in Tasmania. Sets out special protection measures for native animals and plants that are considered to be 'threatened'.	When encountering threatened plants or animals, personnel must adhere to the requirements of this Act.
Whales Protection Act 1988	Protection of whales in Tasmanian waters. Outlines offences if persons harm, take or remove a whale.	If any whales are encountered, personnel are to adhere to requirements of this Act.

Appendix C PIMS Environmental Policy Statement



PQMS-A1-HSE-PH-001 | Revision 1 | October 2018

Palisade Integrated Management Services Pty Ltd Environmental Policy

Palisade Integrated Management Services is committed to excellence in environmental management.

This will be achieved by:

- Recognising that environmental management is a corporate priority that should be integrated into all business processes from the purchase of goods to the provision of asset management services
- Conducting all activities in a manner consistent with the principles of sustainable management and caring for the environment
- Developing an environmentally aware culture by demonstrating management commitment, continuously improving management systems and providing the time and resources to educate and train employees and contractors
- Implementing management strategies to meet current and anticipated environmental performance standards and communicating these to all service providers and stakeholders
- Consulting the local community on its concerns, aspirations and values and ensuring that local heritage will be respected, and historic places and artifacts preserved
- Identifying and minimizing risks by continuously assessing, controlling and monitoring environmental aspects and impacts; and
- Complying with all relevant legislation, regulations, codes of practice and standards

We will measure our success by achieving our goal of zero reportable environmental incidents each year.

Lindsay Ward
CEO
Palisade Integrated Management Services

Authorised by: CEO Palisade Integrated Management Services
Issued: 13 December 2018

PQMS-A1-HSE-PH-001 PIMS Environmental Policy
Rev 1

Appendix D Summary of Relevant Stakeholder Environmental Correspondence Log

Distribution list for Environment Plan consultation flyer (TGP-698-PA-HSE-005)

Area	Stakeholder
Commonwealth	Department of Agriculture and Water Resources (DAWR)
	Department of the Environment and Energy - Director of National Parks
	Australian Maritime Safety Authority (AMSA)
	Australian Fisheries Management Authority (AFMA)
	Department of Defence
State	Victorian Fisheries Authority
	Department of Environment, Land, Water and Planning (DELWP) (Victoria)
	Department of Transport (DOT) (Victoria)
	Environment Protection Authority (Victoria)
	Transport Safety Victoria - Maritime Safety
	Parks Victoria
	Victorian Ports Corporation
	Heritage Victoria
	Department of Primary Industries, Parks, Water and Environment (DPIPWE) (Tasmania)
	Parks and Wildlife Service (Tasmania)
	Environment Protection Authority (Tasmania)
	Marine and Safety Tasmania
Tasmanian Ports Corporation	
Department of Responsible State Minister	Department of State Growth - Mineral Resources Tasmania (MRT)
	Department of Jobs, Precincts and Regions (DJPR) - Earth Resources Regulator (Victoria)
Other	Shire of Wellington Council (Victoria)
	George Town Council (Tasmania)
	Lakes Entrance Fishermen's Cooperative Limited (LEFCOL)
	South East Trawl Fishing Industry Association (SETFIA)
	Seafood Industry Victoria

Area	Stakeholder
	Sustainable Shark Fishing Association
	Victorian Scallop Fisherman's Association
	Scallop Fishermen's Association of Tasmania
	Tasmanian Seafood Industry Council
	Commonwealth Fisheries Association
	Southern Shark Industry Alliance
	Victorian Rock Lobster Association
	EastRock
	Southern Rocklobster Limited
	Tasmanian Rock Lobster Fisherman's Association
	Abalone Council Australia
	Victorian Abalone Council
	Tasmanian Abalone Council
	Gippsland Ports
	Esso Australia Resources Pty Ltd
	Seven Group Holdings
	Bass Oil
	CarbonNet
	Cooper Energy
	Basslink
	Indigo Cable
	Gunai-Kurnai Land Council



TASMANIAN GAS PIPELINE CONSULTATION

Tasmanian Gas Pipeline Pty Ltd (TGPPL) is the operator of the Tasmanian Gas Pipeline (TGP) and is required to have an Environment Plan that covers all their offshore petroleum activities. The current offshore operations Environment Plan for the TGP is being revised in accordance with Commonwealth and State legislation (see box below) that require a formal revision every 5 years.

Commonwealth waters	Victorian waters	Tasmanian waters
Pipeline Licence		
T/PL1-COMM VIC/PL30	VIC/PL30(V)	T/PL1-TAS
Regulator		
NOPSEMA	Department of Jobs, Precincts and Regions - Earth Resources	Department of State Growth - Marine Resources Tasmania
Act & Regulations		
Offshore Petroleum and Greenhouse Gas Storage Act & (Environment) Regulations	Offshore Petroleum and Greenhouse Gas Storage Act & Regulations	Petroleum (Submerged Lands) Act & (Management of the Environment) Regulations

All potential impacts and risks and associated prevention and mitigation control measures are being reviewed. A list of the environmental aspects of the activities relating to TGP operations is provided in the following table. All impacts and risks have been assessed to be low. TGPPL identifies and manages all impacts and risks to an acceptable level and reduces them to As Low As Reasonably Practicable (ALARP).

Commissioned in 2002, the TGP is the only pipeline supplying natural gas to Tasmania. The pipeline extends from Longford in Victoria, across Bass Strait to Bell Bay in north-east Tasmania.

The offshore section of the TGP is approximately 300 km in length with a maximum water depth along the route of 77 m. The seabed route is mostly flat and featureless and much of the pipeline is partially or fully buried. The pipeline traverses the Beagle Commonwealth Marine Reserve.

The steel pipeline is protected externally by an anti-corrosion coating and a concrete weight coating which also serves to stabilise the pipe and act as a barrier to third party impacts. AMSA has applied a safety zone over the submerged section of the pipeline which prohibits anchoring within 500 m.

There are no permanent offshore facilities (e.g. platforms or mooring buoys) or equipment or machinery associated with the TGP.

There are no daily activities on the pipeline itself apart from continuous monitoring of pipeline flows and pressures by the Control Room in Melbourne. The monitoring system ensures that all relevant alarms and protective systems are in place so that pipeline integrity, and safety of personnel and the public, is not compromised and that security of supply is maintained. Remote shutdown, opening and closing of (onshore) pipeline valves and other ancillary functions are all conducted from the Control Room.

Surveys of the pipeline, to assess pipeline integrity and any maintenance requirements, are undertaken on a periodic basis and occur approximately every 2 to 5 years. These activities include:

- Periodic seabed surveys using remotely operated vehicles (ROVs), Side Scan Sonar (SSS) and Diver Inspections to detect existing or potential pipeline damage;
- Intelligent pigging to detect metal loss in the pipeline wall; and
- Maintenance activities conducted on an as-needs basis following surveys or identified issues, for example utility pigging, installation of grout bags or concrete mattresses and removal of objects dropped from passing ships.

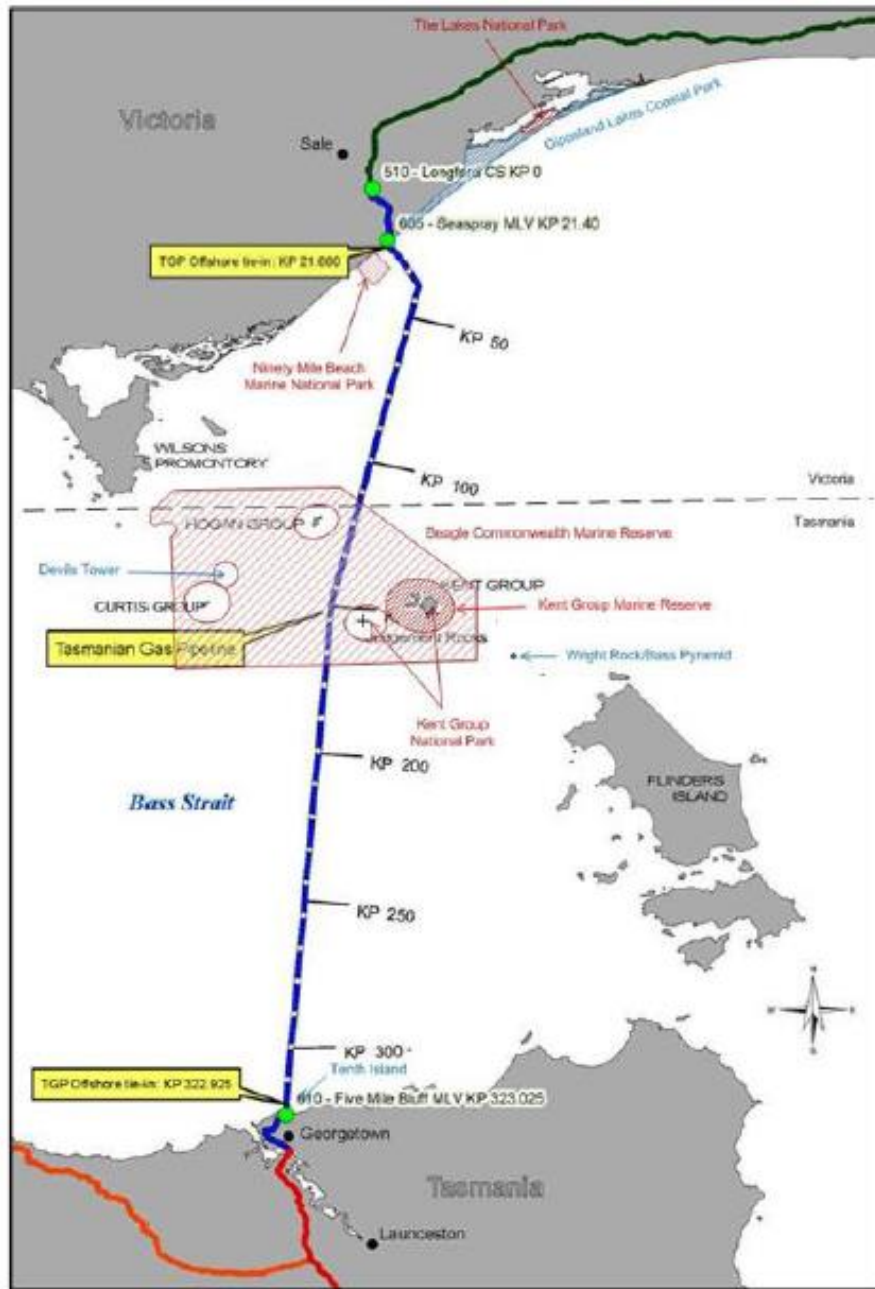
Inspection and maintenance activities are undertaken with support from contracted vessels which operate to the latest international safety and environmental standards. Vessels are generally at sea for 1 to 4 weeks. No vessel refuelling is conducted at sea.

The Director of National Parks has confirmed that the pipeline licences (see box left) issued immediately before the Beagle Commonwealth Marine Reserve commenced are seabed usage rights under the EPBC Act and a permit is not required to undertake inspection and maintenance on the pipeline. In revising the Environment Plan TGPPL has considered, the Beagle management plan objectives and values to ensure that its activities will not be inconsistent with the management plan.

TGPPL commits to keeping relevant stakeholders informed regarding the ongoing operations and is happy to engage in ongoing consultation. If you have any specific questions or feedback about any of these activities, please contact TGPPL at:

enquiries@tasmaniangaspipeline.com.au

Location of Tasmanian Gas Pipeline



Legend

- Tasmanian Gas Pipeline (Offshore)
- Tasmanian Gas Pipeline
- Eastern Gas Pipeline
- Northern Pipeline Extension
- Southern Pipeline Extension

Potential Impacts, Risks and Control Measures

Provided in the table below are the key impacts / risks relating to the operation of the TGP to assist stakeholders in making an informed assessment on possible impacts to their activities, functions or interests in the area.

Aspect of Activities	Potential Consequence	Impact/Risk Reduction & Mitigation Measures
Physical interaction with other marine users	Disruption to other marine users such as commercial fishing and shipping	Existing AMSA safety zone shown on navigational charts Communicate commencement of vessel-based inspection and maintenance activity to relevant stakeholders via Notice to Mariners and via AMSA JRCC No vessel activity of long-term duration at any one location
Seabed disturbance	Localised disturbance / damage to benthic habitats and communities Disturbance / damage to cultural heritage sites	No anchoring except in an emergency Vessel cargo securing manual Vessel crane handling and transfer procedures, maintenance of vessel lifting equipment Vessel GIS contains locations of cultural heritage sites in vicinity of pipeline Small area of benthic habitat disturbance, rapidly filled / recolonised
Vessel planned discharges to the sea - Sewage and food waste - Treated bilge and deck wash	Temporary and localised reduction in water quality	Routine discharges and vessel waste treatment systems will meet MARPOL requirements No discharge of oily water exceeding 15 ppm oil in water content Food-scrap macerated prior to discharge Planned chemical discharges assessed and approved prior to use
Vessel noise	Localised sound emissions Temporary disturbance / displacement of sound sensitive fauna.	Maintain caution and 'no approach' zones from cetaceans / seal colonies Soft start procedures for SSS surveys, if required.
Vessel emissions to air	Temporary and localised reduction in air quality	Air emissions from marine engines meet MARPOL requirements Use of low sulphur content fuel.
Unplanned vessel interaction with marine fauna (vessel strike)	Injury / death of marine megafauna.	Vessels only travel at slow speeds along pipeline route Maintain caution and 'no approach' zones from cetaceans / seal colonies
Unplanned introduction of invasive marine species (IMS) from vessel ballast water / biofouling	Displacement of native species and habitat domination	Ballast Water Management Plan and Certificate, Ballast Water Record System Vessel clearance obtained to enter Australian territory through DAWR pre-arrival reporting system (MARS) Adherence to Australian Ballast Water Management Requirements Biofouling Risk Assessment shows low risk of IMS introduction Immersible equipment cleaning
Accidental release of hazardous substances and waste from vessel	Temporary and localised change in water quality Injury / death of marine fauna	Vessel compliant with MARPOL waste management requirements Store hazardous liquids in designated areas with spill protection in place Vessels comply with approved SMPEP, including maintaining spill kits, emergency response procedures and conducting spill response exercises
Accidental release of diesel fuel from vessel collision	Injury / death of marine fauna Reduction in water quality Pollution of shorelines such as sandy beaches Disruption to other marine users	Communicate commencement of vessel-based inspection and maintenance activity to relevant stakeholders via Notice to Mariners and via AMSA JRCC Vessel crew and navigational equipment will meet legal requirements Vessels comply with approved SMPEP (as above) Implementation of OPEP
Accidental release of natural gas from pipeline	Temporary and localised change in water quality	Existing AMSA safety zone shown on navigational charts NOPSEMA accepted pipeline safety case

Consultation Summary

Stakeholder	Feedback/Query	Summary of TGP Response
<p>Environment Protection Authority (Tasmania)</p>	<p>Please note Tasmania’s guidance note relating to offshore oil and gas activities. This document should provide the basic arrangements you need to know in relation to our State response as it relates to oil spills.</p> <p>I would welcome a conversation with you relating to oil spill preparedness that your company has in place and how this will support State based response activities in the event of an incident involving oil into the marine environment.</p> <p>The pipeline traverses some important Tasmanian offshore island areas that have natural values prioritised and protected – it will be important to take this into consideration when reviewing your operation – we have specific response requirements relating to the remote nature of the area, this includes a largely wildlife based response that will require you to follow the direction of the State department responsible for this area and support the needs of the response pertaining to wildlife particularly and other operations more generally.</p>	<p>The only scenario in which liquid hydrocarbon pollution is credible is from vessel-based activities. Worst case scenarios impacting land are associated with vessel grounding and loss of marine diesel up to 40,000L</p> <p>TGP acknowledge:</p> <ul style="list-style-type: none"> • State-based guidance provided and shall incorporate where applicable into OPEP section of environment plan, particularly around notification requirements • Tasmanian EPA notes potential impact not just to Tasmanian coast but also Bass Strait Islands • Tasmania is limited in response resources and would look to TGP to provide resources in the event of a spill <p>Tasmanian EPA will review full EP following submission to NOPSEMA and respond accordingly</p>

Stakeholder	Feedback/Query	Summary of TGP Response
<p>Department of State Growth – Mineral Resources Tasmania (MRT)</p>	<p>Thank you for the Tasmanian Gas Pipeline Consultation document that you submitted to us yesterday. Please note that the name of this agency, being the issuer of pipeline licence T/PL1-TAS, is Mineral Resources Tasmania (notwithstanding our responsibility for petroleum onshore and in Tasmanian waters), not ‘Marine Resources Tasmania’.</p> <p>The only query I have at this stage is regarding the length of the consultation period. Related, when do you expect completion and submission of the resulting revised Environment Plan? We’ll look forward to the receipt of this in due course, as with your ongoing submission of periodic seabed survey and other regular reports.</p>	<p>TGP note error on MRT definition. Will check for any other erroneous definitions.</p> <p>EP is due for submission to NOPSEMA on 2 October 2019 being 14 days prior to the 5-year anniversary of in-force EP acceptance. Following this, NOPSEMA will have their statutory minimum 30-day assessment period, during which time the full EP will be available on NOPSEMA website. Whilst this isn’t a formal ‘Open for Comment’ period, submissions or comments during this time can certainly be made directly to TGP.</p> <p>TGP would like to have a discussion regarding the value in synchronising state and federal 5-yearly submission dates, given MRT resubmission is due in 2021. Whilst recognising the acts and regulations vary from state to federal, with similar submission frequencies this would avoid the possibility that TGP are operating under multiple EP’s.</p>
<p>South East Trawl Fishing Industry Association (SETFIA)</p>	<p>SETFIA does a lot of work in this space and has partnered with several fishing industry associations in the SE to assist oil/gas/windfarm et al companies better reduce impacts on the commercial fishing industry.</p> <p>Please contact us if you would like to engage the SE fishing industry in any way. As you probably know a few years ago SETFIA did some work to raise awareness of the TGP which we believe worked well.</p>	<p>Noted. TGP acknowledge assistance SETFIA has provided in the past and recently to various ad-hoc enquiries.</p>

Appendix E EPBC Act Protected Matters Search Report



EPBC Act Protected Matters Report

This report provides general guidance on matters of national environmental significance and other matters protected by the EPBC Act in the area you have selected.

Information on the coverage of this report and qualifications on data supporting this report are contained in the caveat at the end of the report.

Information is available about [Environment Assessments](#) and the EPBC Act including significance guidelines, forms and application process details.

Report created: 04/09/19 12:54:30

[Summary](#)

[Details](#)

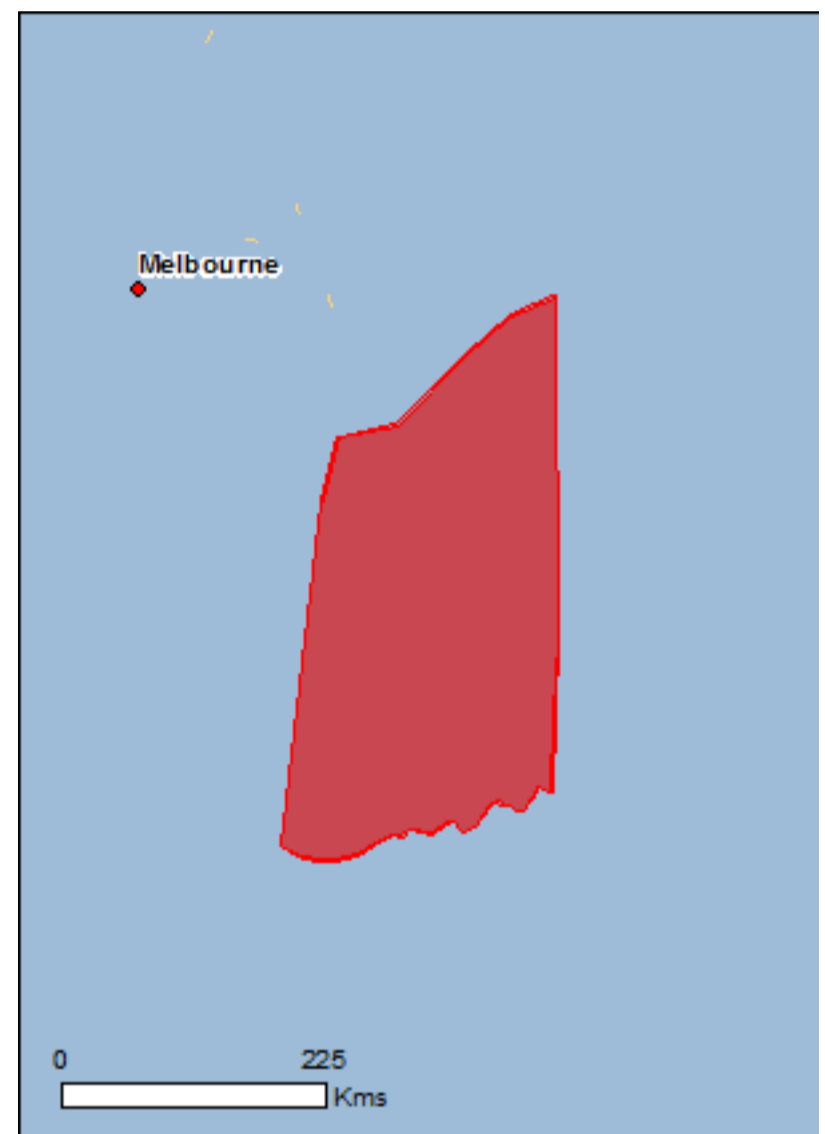
[Matters of NES](#)

[Other Matters Protected by the EPBC Act](#)

[Extra Information](#)

[Caveat](#)

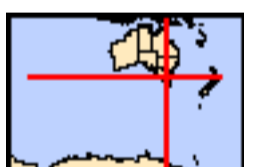
[Acknowledgements](#)



This map may contain data which are ©Commonwealth of Australia (Geoscience Australia), ©PSMA 2010

[Coordinates](#)

[Buffer: 1.0Km](#)



Summary

Matters of National Environmental Significance

This part of the report summarises the matters of national environmental significance that may occur in, or may relate to, the area you nominated. Further information is available in the detail part of the report, which can be accessed by scrolling or following the links below. If you are proposing to undertake an activity that may have a significant impact on one or more matters of national environmental significance then you should consider the [Administrative Guidelines on Significance](#).

World Heritage Properties:	None
National Heritage Places:	None
Wetlands of International Importance:	5
Great Barrier Reef Marine Park:	None
Commonwealth Marine Area:	1
Listed Threatened Ecological Communities:	8
Listed Threatened Species:	106
Listed Migratory Species:	72

Other Matters Protected by the EPBC Act

This part of the report summarises other matters protected under the Act that may relate to the area you nominated. Approval may be required for a proposed activity that significantly affects the environment on Commonwealth land, when the action is outside the Commonwealth land, or the environment anywhere when the action is taken on Commonwealth land. Approval may also be required for the Commonwealth or Commonwealth agencies proposing to take an action that is likely to have a significant impact on the environment anywhere.

The EPBC Act protects the environment on Commonwealth land, the environment from the actions taken on Commonwealth land, and the environment from actions taken by Commonwealth agencies. As heritage values of a place are part of the 'environment', these aspects of the EPBC Act protect the Commonwealth Heritage values of a Commonwealth Heritage place. Information on the new heritage laws can be found at <http://www.environment.gov.au/heritage>

A [permit](#) may be required for activities in or on a Commonwealth area that may affect a member of a listed threatened species or ecological community, a member of a listed migratory species, whales and other cetaceans, or a member of a listed marine species.

Commonwealth Land:	4
Commonwealth Heritage Places:	3
Listed Marine Species:	117
Whales and Other Cetaceans:	16
Critical Habitats:	None
Commonwealth Reserves Terrestrial:	None
Australian Marine Parks:	1

Extra Information

This part of the report provides information that may also be relevant to the area you have nominated.

State and Territory Reserves:	99
Regional Forest Agreements:	3
Invasive Species:	51
Nationally Important Wetlands:	12
Key Ecological Features (Marine)	1

Details

Matters of National Environmental Significance

Wetlands of International Importance (Ramsar)

[\[Resource Information \]](#)

Name	Proximity
Corner inlet	Within Ramsar site
Flood plain lower ringarooma river	Within Ramsar site
Gippsland lakes	Within Ramsar site
Little waterhouse lake	Within Ramsar site
Logan lagoon	10 - 20km upstream

Commonwealth Marine Area

[\[Resource Information \]](#)

Approval is required for a proposed activity that is located within the Commonwealth Marine Area which has, will have, or is likely to have a significant impact on the environment. Approval may be required for a proposed action taken outside the Commonwealth Marine Area but which has, may have or is likely to have a significant impact on the environment in the Commonwealth Marine Area. Generally the Commonwealth Marine Area stretches from three nautical miles to two hundred nautical miles from the coast.

Name

EEZ and Territorial Sea

Marine Regions

[\[Resource Information \]](#)

If you are planning to undertake action in an area in or close to the Commonwealth Marine Area, and a marine bioregional plan has been prepared for the Commonwealth Marine Area in that area, the marine bioregional plan may inform your decision as to whether to refer your proposed action under the EPBC Act.

Name

[South-east](#)

Listed Threatened Ecological Communities

[\[Resource Information \]](#)

For threatened ecological communities where the distribution is well known, maps are derived from recovery plans, State vegetation maps, remote sensing imagery and other sources. Where threatened ecological community distributions are less well known, existing vegetation maps and point location data are used to produce indicative distribution maps.

Name	Status	Type of Presence
Assemblages of species associated with open-coast salt-wedge estuaries of western and central Victoria ecological community	Endangered	Community likely to occur within area
Giant Kelp Marine Forests of South East Australia	Endangered	Community likely to occur within area
Gippsland Red Gum (<i>Eucalyptus tereticornis</i> subsp. <i>mediana</i>) Grassy Woodland and Associated Native Grassland	Critically Endangered	Community likely to occur within area
Littoral Rainforest and Coastal Vine Thickets of Eastern Australia	Critically Endangered	Community likely to occur within area
Lowland Native Grasslands of Tasmania	Critically Endangered	Community likely to occur within area
Natural Damp Grassland of the Victorian Coastal Plains	Critically Endangered	Community may occur within area
Subtropical and Temperate Coastal Saltmarsh	Vulnerable	Community likely to occur within area
Tasmanian Forests and Woodlands dominated by black gum or Brookers gum (<i>Eucalyptus ovata</i> / <i>E. brookeriana</i>)	Critically Endangered	Community likely to occur within area

Listed Threatened Species

[\[Resource Information \]](#)

Name	Status	Type of Presence
Birds		
Anthochaera phrygia Regent Honeyeater [82338]	Critically Endangered	Species or species habitat likely to occur within area

Name	Status	Type of Presence
Aquila audax fleayi Tasmanian Wedge-tailed Eagle, Wedge-tailed Eagle (Tasmanian) [64435]	Endangered	Breeding likely to occur within area
Botaurus poiciloptilus Australasian Bittern [1001]	Endangered	Species or species habitat known to occur within area
Calidris canutus Red Knot, Knot [855]	Endangered	Species or species habitat known to occur within area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area
Calidris tenuirostris Great Knot [862]	Critically Endangered	Roosting known to occur within area
Ceyx azureus diemenensis Tasmanian Azure Kingfisher [25977]	Endangered	Species or species habitat known to occur within area
Charadrius leschenaultii Greater Sand Plover, Large Sand Plover [877]	Vulnerable	Roosting known to occur within area
Charadrius mongolus Lesser Sand Plover, Mongolian Plover [879]	Endangered	Roosting known to occur within area
Diomedea antipodensis Antipodean Albatross [64458]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Diomedea antipodensis gibsoni Gibson's Albatross [82270]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Diomedea epomophora Southern Royal Albatross [89221]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Diomedea exulans Wandering Albatross [89223]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Diomedea sanfordi Northern Royal Albatross [64456]	Endangered	Foraging, feeding or related behaviour likely to occur within area
Fregetta grallaria grallaria White-bellied Storm-Petrel (Tasman Sea), White-bellied Storm-Petrel (Australasian) [64438]	Vulnerable	Species or species habitat likely to occur within area
Grantiella picta Painted Honeyeater [470]	Vulnerable	Breeding known to occur within area
Halobaena caerulea Blue Petrel [1059]	Vulnerable	Species or species habitat may occur within area
Hirundapus caudacutus White-throated Needletail [682]	Vulnerable	Species or species habitat known to occur within area
Lathamus discolor Swift Parrot [744]	Critically Endangered	Breeding known to occur within area
Limosa lapponica baueri Bar-tailed Godwit (baueri), Western Alaskan Bar-tailed Godwit [86380]	Vulnerable	Species or species habitat known to occur within area
Limosa lapponica menzbieri Northern Siberian Bar-tailed Godwit, Bar-tailed Godwit (menzbieri) [86432]	Critically Endangered	Species or species habitat may occur within

Name	Status	Type of Presence area
Macronectes giganteus Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Foraging, feeding or related behaviour likely to occur within area
Macronectes halli Northern Giant Petrel [1061]	Vulnerable	Species or species habitat may occur within area
Neophema chrysogaster Orange-bellied Parrot [747]	Critically Endangered	Species or species habitat known to occur within area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat known to occur within area
Pachyptila turtur subantarctica Fairy Prion (southern) [64445]	Vulnerable	Species or species habitat known to occur within area
Pardalotus quadragintus Forty-spotted Pardalote [418]	Endangered	Species or species habitat known to occur within area
Phoebetria fusca Sooty Albatross [1075]	Vulnerable	Species or species habitat likely to occur within area
Pterodroma leucoptera leucoptera Gould's Petrel, Australian Gould's Petrel [26033]	Endangered	Species or species habitat may occur within area
Rostratula australis Australian Painted-snipe, Australian Painted Snipe [77037]	Endangered	Species or species habitat likely to occur within area
Sternula nereis nereis Australian Fairy Tern [82950]	Vulnerable	Species or species habitat known to occur within area
Thalassarche bulleri Buller's Albatross, Pacific Albatross [64460]	Vulnerable	Species or species habitat may occur within area
Thalassarche bulleri platei Northern Buller's Albatross, Pacific Albatross [82273]	Vulnerable	Species or species habitat may occur within area
Thalassarche cauta cauta Shy Albatross, Tasmanian Shy Albatross [82345]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Thalassarche cauta steadi White-capped Albatross [82344]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Thalassarche chrysostoma Grey-headed Albatross [66491]	Endangered	Species or species habitat may occur within area
Thalassarche eremita Chatham Albatross [64457]	Endangered	Foraging, feeding or related behaviour likely to occur within area
Thalassarche impavida Campbell Albatross, Campbell Black-browed Albatross [64459]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Thalassarche melanophris Black-browed Albatross [66472]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area

Name	Status	Type of Presence
Thalassarche salvini Salvin's Albatross [64463]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Thinornis rubricollis rubricollis Hooded Plover (eastern) [66726]	Vulnerable	Species or species habitat known to occur within area
Tyto novaehollandiae castanops (Tasmanian population) Masked Owl (Tasmanian) [67051]	Vulnerable	Breeding known to occur within area
Crustaceans		
Astacopsis gouldi Giant Freshwater Crayfish, Tasmanian Giant Freshwater Lobster [64415]	Vulnerable	Species or species habitat known to occur within area
Engaeus granulatus Central North Burrowing Crayfish [78959]	Endangered	Species or species habitat known to occur within area
Engaeus martigener Furneaux Burrowing Crayfish [67220]	Endangered	Species or species habitat known to occur within area
Fish		
Galaxiella pusilla Eastern Dwarf Galaxias, Dwarf Galaxias [56790]	Vulnerable	Species or species habitat known to occur within area
Prototroctes maraena Australian Grayling [26179]	Vulnerable	Species or species habitat known to occur within area
Frogs		
Heleioporus australiacus Giant Burrowing Frog [1973]	Vulnerable	Species or species habitat may occur within area
Litoria aurea Green and Golden Bell Frog [1870]	Vulnerable	Species or species habitat likely to occur within area
Litoria littlejohni Littlejohn's Tree Frog, Heath Frog [64733]	Vulnerable	Species or species habitat may occur within area
Litoria raniformis Growling Grass Frog, Southern Bell Frog, Green and Golden Frog, Warty Swamp Frog [1828]	Vulnerable	Species or species habitat known to occur within area
Mammals		
Antechinus minimus maritimus Swamp Antechinus (mainland) [83086]	Vulnerable	Species or species habitat known to occur within area
Balaenoptera borealis Sei Whale [34]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Balaenoptera musculus Blue Whale [36]	Endangered	Species or species habitat likely to occur within area
Balaenoptera physalus Fin Whale [37]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Dasyurus maculatus maculatus (SE mainland population) Spot-tailed Quoll, Spotted-tail Quoll, Tiger Quoll (southeastern mainland population) [75184]	Endangered	Species or species habitat known to occur within area

Name	Status	Type of Presence
Dasyurus maculatus maculatus (Tasmanian population) Spotted-tail Quoll, Spot-tailed Quoll, Tiger Quoll (Tasmanian population) [75183]	Vulnerable	Species or species habitat known to occur within area
Dasyurus viverrinus Eastern Quoll, Luaner [333]	Endangered	Species or species habitat known to occur within area
Eubalaena australis Southern Right Whale [40]	Endangered	Species or species habitat known to occur within area
Isoodon obesulus obesulus Southern Brown Bandicoot (eastern), Southern Brown Bandicoot (south-eastern) [68050]	Endangered	Species or species habitat known to occur within area
Mastacomys fuscus mordicus Broad-toothed Rat (mainland), Tooarrana [87617]	Vulnerable	Species or species habitat known to occur within area
Megaptera novaeangliae Humpback Whale [38]	Vulnerable	Species or species habitat known to occur within area
Perameles gunnii gunnii Eastern Barred Bandicoot (Tasmania) [66651]	Vulnerable	Species or species habitat known to occur within area
Petauroides volans Greater Glider [254]	Vulnerable	Species or species habitat likely to occur within area
Potorous tridactylus tridactylus Long-nosed Potoroo (SE Mainland) [66645]	Vulnerable	Species or species habitat known to occur within area
Pseudomys fumeus Smoky Mouse, Konoom [88]	Endangered	Species or species habitat may occur within area
Pseudomys novaehollandiae New Holland Mouse, Pookila [96]	Vulnerable	Species or species habitat known to occur within area
Pteropus poliocephalus Grey-headed Flying-fox [186]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
Sarcophilus harrisii Tasmanian Devil [299]	Endangered	Species or species habitat likely to occur within area
Plants		
Acacia caerulescens Limestone Blue Wattle, Buchan Blue, Buchan Blue Wattle [21883]	Vulnerable	Species or species habitat may occur within area
Amphibromus fluitans River Swamp Wallaby-grass, Floating Swamp Wallaby-grass [19215]	Vulnerable	Species or species habitat likely to occur within area
Caladenia caudata Tailed Spider-orchid [17067]	Vulnerable	Species or species habitat known to occur within area
Caladenia orientalis Eastern Spider Orchid [83410]	Endangered	Species or species habitat likely to occur within area
Caladenia tessellata Thick-lipped Spider-orchid, Daddy Long-legs [2119]	Vulnerable	Species or species habitat known to occur within area

Name	Status	Type of Presence
Caladenia tonellii Robust Fingers [64861]	Critically Endangered	Species or species habitat likely to occur within area
Cassinia rugata Wrinkled Cassinia, Wrinkled Dollybush [21885]	Vulnerable	Species or species habitat may occur within area
Commersonia prostrata Dwarf Kerrawang [87152]	Endangered	Species or species habitat likely to occur within area
Dianella amoena Matted Flax-lily [64886]	Endangered	Species or species habitat may occur within area
Epacris exserta South Esk Heath [19879]	Endangered	Species or species habitat may occur within area
Glycine latrobeana Clover Glycine, Purple Clover [13910]	Vulnerable	Species or species habitat known to occur within area
Lepidium hyssopifolium Basalt Pepper-cress, Peppercress, Rubble Pepper-cress, Pepperweed [16542]	Endangered	Species or species habitat may occur within area
Leucochrysum albicans var. tricolor Hoary Sunray, Grassland Paper-daisy [56204]	Endangered	Species or species habitat likely to occur within area
Prasophyllum apoxychilum Tapered Leek-orchid [64947]	Endangered	Species or species habitat known to occur within area
Prasophyllum frenchii Maroon Leek-orchid, Slaty Leek-orchid, Stout Leek-orchid, French's Leek-orchid, Swamp Leek-orchid [9704]	Endangered	Species or species habitat likely to occur within area
Prasophyllum limnetes Marsh Leek-orchid [82678]	Critically Endangered	Species or species habitat may occur within area
Prasophyllum pulchellum Pretty Leek-orchid [64953]	Critically Endangered	Species or species habitat may occur within area
Prasophyllum secutum Northern Leek-orchid [64954]	Endangered	Species or species habitat likely to occur within area
Prasophyllum spicatum Dense Leek-orchid [55146]	Vulnerable	Species or species habitat likely to occur within area
Pterostylis chlorogramma Green-striped Greenhood [56510]	Vulnerable	Species or species habitat likely to occur within area
Pterostylis cucullata Leafy Greenhood [15459]	Vulnerable	Species or species habitat known to occur within area
Pterostylis tenuissima Swamp Greenhood, Dainty Swamp Orchid [13139]	Vulnerable	Species or species habitat known to occur within area
Pterostylis ziegeleri Grassland Greenhood, Cape Portland Greenhood [64971]	Vulnerable	Species or species habitat likely to occur within area

Name	Status	Type of Presence
Senecio psilocarpus Swamp Fireweed, Smooth-fruited Groundsel [64976]	Vulnerable	Species or species habitat likely to occur within area
Spyridium obcordatum Creeping Dusty Miller [17447]	Vulnerable	Species or species habitat likely to occur within area
Thelymitra epipactoides Metallic Sun-orchid [11896]	Endangered	Species or species habitat likely to occur within area
Thelymitra jonesii Sky-blue Sun-orchid [76352]	Endangered	Species or species habitat known to occur within area
Thelymitra matthewsii Spiral Sun-orchid [4168]	Vulnerable	Species or species habitat may occur within area
Thesium australe Austral Toadflax, Toadflax [15202]	Vulnerable	Species or species habitat may occur within area
Xanthorrhoea arenaria Sand Grasstree [21603]	Vulnerable	Species or species habitat may occur within area
Xanthorrhoea bracteata Shiny Grasstree [7950]	Endangered	Species or species habitat known to occur within area
Xerochrysum palustre Swamp Everlasting, Swamp Paper Daisy [76215]	Vulnerable	Species or species habitat known to occur within area

Reptiles

Caretta caretta Loggerhead Turtle [1763]	Endangered	Foraging, feeding or related behaviour known to occur within area
Chelonia mydas Green Turtle [1765]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
Dermochelys coriacea Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Foraging, feeding or related behaviour known to occur within area

Sharks

Carcharodon carcharias White Shark, Great White Shark [64470]	Vulnerable	Breeding known to occur within area
Rhincodon typus Whale Shark [66680]	Vulnerable	Species or species habitat may occur within area

Listed Migratory Species

[[Resource Information](#)]

* Species is listed under a different scientific name on the EPBC Act - Threatened Species list.

Name	Threatened	Type of Presence
Migratory Marine Birds		
Apus pacificus Fork-tailed Swift [678]		Species or species habitat likely to occur within area
Ardenna carneipes Flesh-footed Shearwater, Fleshy-footed Shearwater [82404]		Foraging, feeding or related behaviour likely to occur within area
Ardenna tenuirostris Short-tailed Shearwater [82652]		Breeding known to occur

Name	Threatened	Type of Presence within area
Diomedea antipodensis Antipodean Albatross [64458]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Diomedea epomophora Southern Royal Albatross [89221]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Diomedea exulans Wandering Albatross [89223]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Diomedea sanfordi Northern Royal Albatross [64456]	Endangered	Foraging, feeding or related behaviour likely to occur within area
Hydroprogne caspia Caspian Tern [808]		Breeding known to occur within area
Macronectes giganteus Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Foraging, feeding or related behaviour likely to occur within area
Macronectes halli Northern Giant Petrel [1061]	Vulnerable	Species or species habitat may occur within area
Phoebastria fusca Sooty Albatross [1075]	Vulnerable	Species or species habitat likely to occur within area
Sternula albifrons Little Tern [82849]		Breeding known to occur within area
Thalassarche bulleri Buller's Albatross, Pacific Albatross [64460]	Vulnerable	Species or species habitat may occur within area
Thalassarche cauta Tasmanian Shy Albatross [89224]	Vulnerable*	Foraging, feeding or related behaviour likely to occur within area
Thalassarche chrysostoma Grey-headed Albatross [66491]	Endangered	Species or species habitat may occur within area
Thalassarche eremita Chatham Albatross [64457]	Endangered	Foraging, feeding or related behaviour likely to occur within area
Thalassarche impavida Campbell Albatross, Campbell Black-browed Albatross [64459]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Thalassarche melanophris Black-browed Albatross [66472]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Thalassarche salvini Salvin's Albatross [64463]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Thalassarche steadi White-capped Albatross [64462]	Vulnerable*	Foraging, feeding or related behaviour likely to occur within area
Migratory Marine Species		
Balaena glacialis australis Southern Right Whale [75529]	Endangered*	Species or species habitat known to occur within area

Name	Threatened	Type of Presence
Balaenoptera borealis Sei Whale [34]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Balaenoptera edeni Bryde's Whale [35]		Species or species habitat may occur within area
Balaenoptera musculus Blue Whale [36]	Endangered	Species or species habitat likely to occur within area
Balaenoptera physalus Fin Whale [37]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Caperea marginata Pygmy Right Whale [39]		Foraging, feeding or related behaviour likely to occur within area
Carcharodon carcharias White Shark, Great White Shark [64470]	Vulnerable	Breeding known to occur within area
Caretta caretta Loggerhead Turtle [1763]	Endangered	Foraging, feeding or related behaviour known to occur within area
Chelonia mydas Green Turtle [1765]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
Dermochelys coriacea Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Foraging, feeding or related behaviour known to occur within area
Isurus oxyrinchus Shortfin Mako, Mako Shark [79073]		Species or species habitat likely to occur within area
Lagenorhynchus obscurus Dusky Dolphin [43]		Species or species habitat may occur within area
Lamna nasus Porbeagle, Mackerel Shark [83288]		Species or species habitat likely to occur within area
Megaptera novaeangliae Humpback Whale [38]	Vulnerable	Species or species habitat known to occur within area
Orcinus orca Killer Whale, Orca [46]		Species or species habitat likely to occur within area
Rhincodon typus Whale Shark [66680]	Vulnerable	Species or species habitat may occur within area
Migratory Terrestrial Species		
Hirundapus caudacutus White-throated Needletail [682]	Vulnerable	Species or species habitat known to occur within area
Monarcha melanopsis Black-faced Monarch [609]		Species or species habitat known to occur within area
Motacilla flava Yellow Wagtail [644]		Species or species habitat may occur within area

Name	Threatened	Type of Presence
Myiagra cyanoleuca Satin Flycatcher [612]		Breeding known to occur within area
Rhipidura rufifrons Rufous Fantail [592]		Species or species habitat known to occur within area
Migratory Wetlands Species		
Actitis hypoleucos Common Sandpiper [59309]		Species or species habitat known to occur within area
Arenaria interpres Ruddy Turnstone [872]		Roosting known to occur within area
Calidris acuminata Sharp-tailed Sandpiper [874]		Roosting known to occur within area
Calidris alba Sanderling [875]		Roosting known to occur within area
Calidris canutus Red Knot, Knot [855]	Endangered	Species or species habitat known to occur within area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area
Calidris melanotos Pectoral Sandpiper [858]		Species or species habitat known to occur within area
Calidris ruficollis Red-necked Stint [860]		Roosting known to occur within area
Calidris tenuirostris Great Knot [862]	Critically Endangered	Roosting known to occur within area
Charadrius bicinctus Double-banded Plover [895]		Roosting known to occur within area
Charadrius leschenaultii Greater Sand Plover, Large Sand Plover [877]	Vulnerable	Roosting known to occur within area
Charadrius mongolus Lesser Sand Plover, Mongolian Plover [879]	Endangered	Roosting known to occur within area
Gallinago hardwickii Latham's Snipe, Japanese Snipe [863]		Roosting known to occur within area
Gallinago megala Swinhoe's Snipe [864]		Roosting likely to occur within area
Gallinago stenura Pin-tailed Snipe [841]		Roosting likely to occur within area
Limnodromus semipalmatus Asian Dowitcher [843]		Roosting known to occur within area
Limosa lapponica Bar-tailed Godwit [844]		Species or species habitat known to occur within area
Limosa limosa Black-tailed Godwit [845]		Roosting known to occur within area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat known to occur within area

Name	Threatened	Type of Presence
Numenius minutus Little Curlew, Little Whimbrel [848]		Roosting known to occur within area
Numenius phaeopus Whimbrel [849]		Roosting known to occur within area
Pandion haliaetus Osprey [952]		Species or species habitat known to occur within area
Philomachus pugnax Ruff (Reeve) [850]		Roosting known to occur within area
Pluvialis fulva Pacific Golden Plover [25545]		Roosting known to occur within area
Pluvialis squatarola Grey Plover [865]		Roosting known to occur within area
Thalasseus bergii Crested Tern [83000]		Breeding known to occur within area
Tringa brevipes Grey-tailed Tattler [851]		Roosting known to occur within area
Tringa glareola Wood Sandpiper [829]		Roosting known to occur within area
Tringa nebularia Common Greenshank, Greenshank [832]		Species or species habitat known to occur within area
Tringa stagnatilis Marsh Sandpiper, Little Greenshank [833]		Roosting known to occur within area
Xenus cinereus Terek Sandpiper [59300]		Roosting known to occur within area

Other Matters Protected by the EPBC Act

Commonwealth Land [\[Resource Information \]](#)

The Commonwealth area listed below may indicate the presence of Commonwealth land in this vicinity. Due to the unreliability of the data source, all proposals should be checked as to whether it impacts on a Commonwealth area, before making a definitive decision. Contact the State or Territory government land department for further information.

Name
Commonwealth Land - Defence - DEVONPORT TRAINING DEPOT Defence - STONYHEAD TRAINING AREA Defence - TS Leven

Commonwealth Heritage Places [\[Resource Information \]](#)

Name	State	Status
Historic		
Goose Island Lighthouse	TAS	Listed place
Mersey Bluff Lighthouse	TAS	Listed place
Wilson's Promontory Lighthouse	VIC	Listed place

Listed Marine Species [\[Resource Information \]](#)

* Species is listed under a different scientific name on the EPBC Act - Threatened Species list.

Name	Threatened	Type of Presence
Birds		
Actitis hypoleucos Common Sandpiper [59309]		Species or species habitat known to occur within area
Apus pacificus Fork-tailed Swift [678]		Species or species habitat likely to occur

Name	Threatened	Type of Presence within area
Ardea alba Great Egret, White Egret [59541]		Breeding known to occur within area
Ardea ibis Cattle Egret [59542]		Species or species habitat may occur within area
Arenaria interpres Ruddy Turnstone [872]		Roosting known to occur within area
Calidris acuminata Sharp-tailed Sandpiper [874]		Roosting known to occur within area
Calidris alba Sanderling [875]		Roosting known to occur within area
Calidris canutus Red Knot, Knot [855]	Endangered	Species or species habitat known to occur within area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area
Calidris melanotos Pectoral Sandpiper [858]		Species or species habitat known to occur within area
Calidris ruficollis Red-necked Stint [860]		Roosting known to occur within area
Calidris tenuirostris Great Knot [862]	Critically Endangered	Roosting known to occur within area
Catharacta skua Great Skua [59472]		Species or species habitat may occur within area
Charadrius bicinctus Double-banded Plover [895]		Roosting known to occur within area
Charadrius leschenaultii Greater Sand Plover, Large Sand Plover [877]	Vulnerable	Roosting known to occur within area
Charadrius mongolus Lesser Sand Plover, Mongolian Plover [879]	Endangered	Roosting known to occur within area
Charadrius ruficapillus Red-capped Plover [881]		Roosting known to occur within area
Diomedea antipodensis Antipodean Albatross [64458]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Diomedea epomophora Southern Royal Albatross [89221]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Diomedea exulans Wandering Albatross [89223]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Diomedea gibsoni Gibson's Albatross [64466]	Vulnerable*	Foraging, feeding or related behaviour likely to occur within area
Diomedea sanfordi Northern Royal Albatross [64456]	Endangered	Foraging, feeding or related behaviour likely to occur within area

Name	Threatened	Type of Presence
Eudyptula minor Little Penguin [1085]		Breeding known to occur within area
Gallinago hardwickii Latham's Snipe, Japanese Snipe [863]		Roosting known to occur within area
Gallinago megala Swinhoe's Snipe [864]		Roosting likely to occur within area
Gallinago stenura Pin-tailed Snipe [841]		Roosting likely to occur within area
Haliaeetus leucogaster White-bellied Sea-Eagle [943]		Breeding known to occur within area
Halobaena caerulea Blue Petrel [1059]	Vulnerable	Species or species habitat may occur within area
Heteroscelus brevipes Grey-tailed Tattler [59311]		Roosting known to occur within area
Himantopus himantopus Pied Stilt, Black-winged Stilt [870]		Roosting known to occur within area
Hirundapus caudacutus White-throated Needletail [682]	Vulnerable	Species or species habitat known to occur within area
Larus dominicanus Kelp Gull [809]		Breeding known to occur within area
Larus novaehollandiae Silver Gull [810]		Breeding known to occur within area
Larus pacificus Pacific Gull [811]		Breeding known to occur within area
Lathamus discolor Swift Parrot [744]	Critically Endangered	Breeding known to occur within area
Limnodromus semipalmatus Asian Dowitcher [843]		Roosting known to occur within area
Limosa lapponica Bar-tailed Godwit [844]		Species or species habitat known to occur within area
Limosa limosa Black-tailed Godwit [845]		Roosting known to occur within area
Macronectes giganteus Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Foraging, feeding or related behaviour likely to occur within area
Macronectes halli Northern Giant Petrel [1061]	Vulnerable	Species or species habitat may occur within area
Merops ornatus Rainbow Bee-eater [670]		Species or species habitat may occur within area
Monarcha melanopsis Black-faced Monarch [609]		Species or species habitat known to occur within area
Motacilla flava Yellow Wagtail [644]		Species or species habitat may occur within area

Name	Threatened	Type of Presence
Myiagra cyanoleuca Satin Flycatcher [612]		Breeding known to occur within area
Neophema chrysogaster Orange-bellied Parrot [747]	Critically Endangered	Species or species habitat known to occur within area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat known to occur within area
Numenius minutus Little Curlew, Little Whimbrel [848]		Roosting known to occur within area
Numenius phaeopus Whimbrel [849]		Roosting known to occur within area
Pachyptila turtur Fairy Prion [1066]		Species or species habitat known to occur within area
Pandion haliaetus Osprey [952]		Species or species habitat known to occur within area
Pelagodroma marina White-faced Storm-Petrel [1016]		Breeding known to occur within area
Pelecanoides urinatrix Common Diving-Petrel [1018]		Breeding known to occur within area
Phalacrocorax fuscescens Black-faced Cormorant [59660]		Breeding known to occur within area
Philomachus pugnax Ruff (Reeve) [850]		Roosting known to occur within area
Phoebetria fusca Sooty Albatross [1075]	Vulnerable	Species or species habitat likely to occur within area
Pluvialis fulva Pacific Golden Plover [25545]		Roosting known to occur within area
Pluvialis squatarola Grey Plover [865]		Roosting known to occur within area
Puffinus carneipes Flesh-footed Shearwater, Fleshy-footed Shearwater [1043]		Foraging, feeding or related behaviour likely to occur within area
Puffinus tenuirostris Short-tailed Shearwater [1029]		Breeding known to occur within area
Recurvirostra novaehollandiae Red-necked Avocet [871]		Roosting known to occur within area
Rhipidura rufifrons Rufous Fantail [592]		Species or species habitat known to occur within area
Rostratula benghalensis (sensu lato) Painted Snipe [889]	Endangered*	Species or species habitat likely to occur within area
Sterna albifrons Little Tern [813]		Breeding known to occur within area
Sterna bergii Crested Tern [816]		Breeding known to occur within area

Name	Threatened	Type of Presence
Sterna caspia Caspian Tern [59467]		Breeding known to occur within area
Sterna fuscata Sooty Tern [794]		Breeding known to occur within area
Sterna nereis Fairy Tern [796]		Breeding known to occur within area
Sterna striata White-fronted Tern [799]		Breeding known to occur within area
Thalassarche bulleri Buller's Albatross, Pacific Albatross [64460]	Vulnerable	Species or species habitat may occur within area
Thalassarche cauta Tasmanian Shy Albatross [89224]	Vulnerable*	Foraging, feeding or related behaviour likely to occur within area
Thalassarche chrysostoma Grey-headed Albatross [66491]	Endangered	Species or species habitat may occur within area
Thalassarche eremita Chatham Albatross [64457]	Endangered	Foraging, feeding or related behaviour likely to occur within area
Thalassarche impavida Campbell Albatross, Campbell Black-browed Albatross [64459]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Thalassarche melanophris Black-browed Albatross [66472]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Thalassarche salvini Salvin's Albatross [64463]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Thalassarche sp. nov. Pacific Albatross [66511]	Vulnerable*	Species or species habitat may occur within area
Thalassarche steadi White-capped Albatross [64462]	Vulnerable*	Foraging, feeding or related behaviour likely to occur within area
Thinornis rubricollis Hooded Plover [59510]		Species or species habitat known to occur within area
Thinornis rubricollis rubricollis Hooded Plover (eastern) [66726]	Vulnerable	Species or species habitat known to occur within area
Tringa glareola Wood Sandpiper [829]		Roosting known to occur within area
Tringa nebularia Common Greenshank, Greenshank [832]		Species or species habitat known to occur within area
Tringa stagnatilis Marsh Sandpiper, Little Greenshank [833]		Roosting known to occur within area
Xenus cinereus Terek Sandpiper [59300]		Roosting known to occur within area
Fish		
Heraldia nocturna Upside-down Pipefish, Eastern Upside-down Pipefish, Eastern Upside-down Pipefish [66227]		Species or species habitat may occur within

Name	Threatened	Type of Presence area
Hippocampus abdominalis Big-belly Seahorse, Eastern Potbelly Seahorse, New Zealand Potbelly Seahorse [66233]		Species or species habitat may occur within area
Hippocampus breviceps Short-head Seahorse, Short-snouted Seahorse [66235]		Species or species habitat may occur within area
Hippocampus minotaur Bullneck Seahorse [66705]		Species or species habitat may occur within area
Histiogamphelus briggsii Crested Pipefish, Briggs' Crested Pipefish, Briggs' Pipefish [66242]		Species or species habitat may occur within area
Histiogamphelus cristatus Rhino Pipefish, Macleay's Crested Pipefish, Ring-back Pipefish [66243]		Species or species habitat may occur within area
Hypsognathus rostratus Knifesnout Pipefish, Knife-snouted Pipefish [66245]		Species or species habitat may occur within area
Kaupus costatus Deepbody Pipefish, Deep-bodied Pipefish [66246]		Species or species habitat may occur within area
Kimblaeus bassensis Trawl Pipefish, Bass Strait Pipefish [66247]		Species or species habitat may occur within area
Leptoichthys fistularius Brushtail Pipefish [66248]		Species or species habitat may occur within area
Lissocampus caudalis Australian Smooth Pipefish, Smooth Pipefish [66249]		Species or species habitat may occur within area
Lissocampus runa Javelin Pipefish [66251]		Species or species habitat may occur within area
Maroubra perserrata Sawtooth Pipefish [66252]		Species or species habitat may occur within area
Mitotichthys semistriatus Halfbanded Pipefish [66261]		Species or species habitat may occur within area
Mitotichthys tuckeri Tucker's Pipefish [66262]		Species or species habitat may occur within area
Notiocampus ruber Red Pipefish [66265]		Species or species habitat may occur within area
Phycodurus eques Leafy Seadragon [66267]		Species or species habitat may occur within area
Phyllopteryx taeniolatus Common Seadragon, Weedy Seadragon [66268]		Species or species habitat may occur within area
Pugnaso curtirostris Pugnose Pipefish, Pug-nosed Pipefish [66269]		Species or species habitat may occur within area

Name	Threatened	Type of Presence
Solegnathus robustus Robust Pipehorse, Robust Spiny Pipehorse [66274]		Species or species habitat may occur within area
Solegnathus spinosissimus Spiny Pipehorse, Australian Spiny Pipehorse [66275]		Species or species habitat may occur within area
Stigmatopora argus Spotted Pipefish, Gulf Pipefish, Peacock Pipefish [66276]		Species or species habitat may occur within area
Stigmatopora nigra Widebody Pipefish, Wide-bodied Pipefish, Black Pipefish [66277]		Species or species habitat may occur within area
Stipecampus cristatus Ringback Pipefish, Ring-backed Pipefish [66278]		Species or species habitat may occur within area
Syngnathoides biaculeatus Double-end Pipehorse, Double-ended Pipehorse, Alligator Pipefish [66279]		Species or species habitat may occur within area
Urocampus carinirostris Hairy Pipefish [66282]		Species or species habitat may occur within area
Vanacampus margaritifer Mother-of-pearl Pipefish [66283]		Species or species habitat may occur within area
Vanacampus phillipi Port Phillip Pipefish [66284]		Species or species habitat may occur within area
Vanacampus poecilolaemus Longsnout Pipefish, Australian Long-snout Pipefish, Long-snouted Pipefish [66285]		Species or species habitat may occur within area
Mammals		
Arctocephalus forsteri Long-nosed Fur-seal, New Zealand Fur-seal [20]		Species or species habitat may occur within area
Arctocephalus pusillus Australian Fur-seal, Australo-African Fur-seal [21]		Breeding known to occur within area
Reptiles		
Caretta caretta Loggerhead Turtle [1763]	Endangered	Foraging, feeding or related behaviour known to occur within area
Chelonia mydas Green Turtle [1765]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
Dermochelys coriacea Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Foraging, feeding or related behaviour known to occur within area
Whales and other Cetaceans		
		[Resource Information]
Name	Status	Type of Presence
Mammals		
Balaenoptera acutorostrata Minke Whale [33]		Species or species habitat may occur within area
Balaenoptera borealis Sei Whale [34]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area

Name	Status	Type of Presence
Balaenoptera edeni Bryde's Whale [35]		Species or species habitat may occur within area
Balaenoptera musculus Blue Whale [36]	Endangered	Species or species habitat likely to occur within area
Balaenoptera physalus Fin Whale [37]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Caperea marginata Pygmy Right Whale [39]		Foraging, feeding or related behaviour likely to occur within area
Delphinus delphis Common Dolphin, Short-beaked Common Dolphin [60]		Species or species habitat may occur within area
Eubalaena australis Southern Right Whale [40]	Endangered	Species or species habitat known to occur within area
Globicephala macrorhynchus Short-finned Pilot Whale [62]		Species or species habitat may occur within area
Grampus griseus Risso's Dolphin, Grampus [64]		Species or species habitat may occur within area
Lagenorhynchus obscurus Dusky Dolphin [43]		Species or species habitat may occur within area
Megaptera novaeangliae Humpback Whale [38]	Vulnerable	Species or species habitat known to occur within area
Orcinus orca Killer Whale, Orca [46]		Species or species habitat likely to occur within area
Pseudorca crassidens False Killer Whale [48]		Species or species habitat likely to occur within area
Tursiops aduncus Indian Ocean Bottlenose Dolphin, Spotted Bottlenose Dolphin [68418]		Species or species habitat likely to occur within area
Tursiops truncatus s. str. Bottlenose Dolphin [68417]		Species or species habitat may occur within area

Australian Marine Parks [Resource Information]

Name	Label
Beagle	Multiple Use Zone (IUCN VI)

Extra Information

State and Territory Reserves [Resource Information]

Name	State
Anderson Islands	TAS
Anser Island	VIC
Badger Island	TAS
Baynes Island	TAS
Bellingham	TAS
Big Green Island	TAS
Blyth Point	TAS

Name	State
Boat Harbour Road	TAS
Boobyalla	TAS
Boxen Island	TAS
Briggs	TAS
Brougham Sugarloaf	TAS
Bun Beetons Point	TAS
Cape Portland	TAS
Chalky Island	TAS
Cone Islet	TAS
Craggy Island	TAS
Curtis Island	TAS
Darling Range	TAS
Devils Tower	TAS
Don Heads	TAS
Double Sandy Point	TAS
Doughboy Island	TAS
East Kangaroo Island	TAS
East Moncoeur Island	TAS
Emita	TAS
Entrance Point	VIC
Fannys Bay	TAS
Five Mile Bluff	TAS
Foochow	TAS
Foster Islands	TAS
Fotheringate Bay	TAS
Goose Island	TAS
Granite Point	TAS
Greens Beach	TAS
Hawley	TAS
Hogan Group	TAS
Holts Point	TAS
Isabella Island	TAS
Jacksons Cove	TAS
Killiecrankie	TAS
Lake Tyers	VIC
Little Island	TAS
Little Pipers River	TAS
Little Swan Island	TAS
Little Waterhouse Island	TAS
Long Island	TAS
Low Head	TAS
Low Head	TAS
Low Point	TAS
Lughrata	TAS
Marshall Beach	TAS
Memana	TAS
Mersey Bluff	TAS
Mile Island	TAS
Mount Tanner	TAS
Mount Vereker Creek	VIC
Mt Chappell Island	TAS
Mulligans Hill	TAS
Mulligans Hill	TAS
Musselroe Bay	TAS
Narawntapu	TAS
Neds Reef	TAS
Ninth Island	TAS
North East Islet	TAS
North East River	TAS
Oyster Rocks	TAS
Palana Beach	TAS
Pasco Group	TAS
Prime Seal Island	TAS
Reedy Lagoon	TAS
Rodondo Island	TAS
Roydon Island	TAS

Name	State
Seal Islands W.R.	VIC
Sentinel Island	TAS
Settlement Point	TAS
Single Tree Plain	TAS
Sister Islands	TAS
South Pats River	TAS
Southern Wilsons Promontory	VIC
Strzelecki	TAS
Sugarloaf Rock	TAS
Summer Camp	TAS
Summerhill Drive Port Sorell	TAS
Sydney Cove	TAS
The Dock	TAS
Trousers Point Beach	TAS
Unnamed (Badger Head Road)	TAS
Unnamed (Pipers Brook)	TAS
Vereker Creek	VIC
Waterhouse	TAS
Waterhouse Island	TAS
West Moncoeur Island	TAS
Wilsons Promontory	VIC
Wilsons Promontory Islands	VIC
Wilsons Promontory National Park	VIC
Wingaroo	TAS
Wybalenna Island	TAS
Youngs Creek	TAS

Regional Forest Agreements [\[Resource Information \]](#)

Note that all areas with completed RFAs have been included.

Name	State
East Gippsland RFA	Victoria
Gippsland RFA	Victoria
Tasmania RFA	Tasmania

Invasive Species [\[Resource Information \]](#)

Weeds reported here are the 20 species of national significance (WoNS), along with other introduced plants that are considered by the States and Territories to pose a particularly significant threat to biodiversity. The following feral animals are reported: Goat, Red Fox, Cat, Rabbit, Pig, Water Buffalo and Cane Toad. Maps from Landscape Health Project, National Land and Water Resources Audit, 2001.

Name	Status	Type of Presence
Birds		
Acridotheres tristis Common Myna, Indian Myna [387]		Species or species habitat likely to occur within area
Alauda arvensis Skylark [656]		Species or species habitat likely to occur within area
Anas platyrhynchos Mallard [974]		Species or species habitat likely to occur within area
Callipepla californica California Quail [59451]		Species or species habitat likely to occur within area
Carduelis carduelis European Goldfinch [403]		Species or species habitat likely to occur within area
Carduelis chloris European Greenfinch [404]		Species or species habitat likely to occur within area
Columba livia Rock Pigeon, Rock Dove, Domestic Pigeon [803]		Species or species habitat likely to occur

Name	Status	Type of Presence within area
Meleagris gallopavo Wild Turkey [64380]		Species or species habitat likely to occur within area
Passer domesticus House Sparrow [405]		Species or species habitat likely to occur within area
Passer montanus Eurasian Tree Sparrow [406]		Species or species habitat likely to occur within area
Pavo cristatus Indian Peafowl, Peacock [919]		Species or species habitat likely to occur within area
Phasianus colchicus Common Pheasant [920]		Species or species habitat likely to occur within area
Streptopelia chinensis Spotted Turtle-Dove [780]		Species or species habitat likely to occur within area
Sturnus vulgaris Common Starling [389]		Species or species habitat likely to occur within area
Turdus merula Common Blackbird, Eurasian Blackbird [596]		Species or species habitat likely to occur within area
Mammals		
Bos taurus Domestic Cattle [16]		Species or species habitat likely to occur within area
Canis lupus familiaris Domestic Dog [82654]		Species or species habitat likely to occur within area
Capra hircus Goat [2]		Species or species habitat likely to occur within area
Equus caballus Horse [5]		Species or species habitat likely to occur within area
Felis catus Cat, House Cat, Domestic Cat [19]		Species or species habitat likely to occur within area
Feral deer Feral deer species in Australia [85733]		Species or species habitat likely to occur within area
Lepus capensis Brown Hare [127]		Species or species habitat likely to occur within area
Mus musculus House Mouse [120]		Species or species habitat likely to occur within area
Oryctolagus cuniculus Rabbit, European Rabbit [128]		Species or species habitat likely to occur within area
Rattus norvegicus Brown Rat, Norway Rat [83]		Species or species habitat likely to occur

Name	Status	Type of Presence
Rattus rattus Black Rat, Ship Rat [84]		within area Species or species habitat likely to occur within area
Sus scrofa Pig [6]		Species or species habitat likely to occur within area
Vulpes vulpes Red Fox, Fox [18]		Species or species habitat likely to occur within area
Plants		
Anredera cordifolia Madeira Vine, Jalap, Lamb's-tail, Mignonette Vine, Anredera, Gulf Madeiravine, Heartleaf Madeiravine, Potato Vine [2643]		Species or species habitat likely to occur within area
Asparagus aethiopicus Asparagus Fern, Ground Asparagus, Basket Fern, Sprengi's Fern, Bushy Asparagus, Emerald Asparagus [62425]		Species or species habitat likely to occur within area
Asparagus asparagoides Bridal Creeper, Bridal Veil Creeper, Smilax, Florist's Smilax, Smilax Asparagus [22473]		Species or species habitat likely to occur within area
Asparagus plumosus Climbing Asparagus-fern [48993]		Species or species habitat likely to occur within area
Asparagus scandens Asparagus Fern, Climbing Asparagus Fern [23255]		Species or species habitat likely to occur within area
Carrichtera annua Ward's Weed [9511]		Species or species habitat may occur within area
Chrysanthemoides monilifera Bitou Bush, Boneseed [18983]		Species or species habitat may occur within area
Chrysanthemoides monilifera subsp. monilifera Boneseed [16905]		Species or species habitat likely to occur within area
Cytisus scoparius Broom, English Broom, Scotch Broom, Common Broom, Scottish Broom, Spanish Broom [5934]		Species or species habitat likely to occur within area
Genista linifolia Flax-leaved Broom, Mediterranean Broom, Flax Broom [2800]		Species or species habitat likely to occur within area
Genista monspessulana Montpellier Broom, Cape Broom, Canary Broom, Common Broom, French Broom, Soft Broom [20126]		Species or species habitat likely to occur within area
Genista sp. X Genista monspessulana Broom [67538]		Species or species habitat may occur within area
Lantana camara Lantana, Common Lantana, Kamara Lantana, Large-leaf Lantana, Pink Flowered Lantana, Red Flowered Lantana, Red-Flowered Sage, White Sage, Wild Sage [10892]		Species or species habitat likely to occur within area
Lycium ferocissimum African Boxthorn, Boxthorn [19235]		Species or species habitat likely to occur within area
Nassella neesiana Chilean Needle grass [67699]		Species or species

Name	Status	Type of Presence
Nassella trichotoma Serrated Tussock, Yass River Tussock, Yass Tussock, Nassella Tussock (NZ) [18884]		habitat likely to occur within area Species or species habitat likely to occur within area
Olea europaea Olive, Common Olive [9160]		Species or species habitat may occur within area
Opuntia spp. Prickly Pears [82753]		Species or species habitat likely to occur within area
Pinus radiata Radiata Pine Monterey Pine, Insignis Pine, Wilding Pine [20780]		Species or species habitat may occur within area
Rubus fruticosus aggregate Blackberry, European Blackberry [68406]		Species or species habitat likely to occur within area
Salix spp. except S.babylonica, S.x calodendron & S.x reichardtii Willows except Weeping Willow, Pussy Willow and Sterile Pussy Willow [68497]		Species or species habitat likely to occur within area
Ulex europaeus Gorse, Furze [7693]		Species or species habitat likely to occur within area

Reptiles

Hemidactylus frenatus Asian House Gecko [1708]	Species or species habitat likely to occur within area
---	--

Nationally Important Wetlands

[Resource Information]

Name	State
Corner Inlet	VIC
Fergusons Lagoon	TAS
Hogans Lagoon	TAS
Lake Tyers	VIC
Thompsons Lagoon	TAS
Tregaron Lagoons 1	TAS
Unnamed Wetland	TAS
Unnamed Wetland	TAS
Unnamed Wetland	TAS
Unnamed Wetland	TAS
Unnamed wetland	TAS

Key Ecological Features (Marine)

[Resource Information]

Key Ecological Features are the parts of the marine ecosystem that are considered to be important for the biodiversity or ecosystem functioning and integrity of the Commonwealth Marine Area.

Name	Region
Upwelling East of Eden	South-east

Caveat

The information presented in this report has been provided by a range of data sources as acknowledged at the end of the report.

This report is designed to assist in identifying the locations of places which may be relevant in determining obligations under the Environment Protection and Biodiversity Conservation Act 1999. It holds mapped locations of World and National Heritage properties, Wetlands of International and National Importance, Commonwealth and State/Territory reserves, listed threatened, migratory and marine species and listed threatened ecological communities. Mapping of Commonwealth land is not complete at this stage. Maps have been collated from a range of sources at various resolutions.

Not all species listed under the EPBC Act have been mapped (see below) and therefore a report is a general guide only. Where available data supports mapping, the type of presence that can be determined from the data is indicated in general terms. People using this information in making a referral may need to consider the qualifications below and may need to seek and consider other information sources.

For threatened ecological communities where the distribution is well known, maps are derived from recovery plans, State vegetation maps, remote sensing imagery and other sources. Where threatened ecological community distributions are less well known, existing vegetation maps and point location data are used to produce indicative distribution maps.

Threatened, migratory and marine species distributions have been derived through a variety of methods. Where distributions are well known and if time permits, maps are derived using either thematic spatial data (i.e. vegetation, soils, geology, elevation, aspect, terrain, etc) together with point locations and described habitat; or environmental modelling (MAXENT or BIOCLIM habitat modelling) using point locations and environmental data layers.

Where very little information is available for species or large number of maps are required in a short time-frame, maps are derived either from 0.04 or 0.02 decimal degree cells; by an automated process using polygon capture techniques (static two kilometre grid cells, alpha-hull and convex hull); or captured manually or by using topographic features (national park boundaries, islands, etc). In the early stages of the distribution mapping process (1999-early 2000s) distributions were defined by degree blocks, 100K or 250K map sheets to rapidly create distribution maps. More reliable distribution mapping methods are used to update these distributions as time permits.

Only selected species covered by the following provisions of the EPBC Act have been mapped:

- migratory and
- marine

The following species and ecological communities have not been mapped and do not appear in reports produced from this database:

- threatened species listed as extinct or considered as vagrants
- some species and ecological communities that have only recently been listed
- some terrestrial species that overfly the Commonwealth marine area
- migratory species that are very widespread, vagrant, or only occur in small numbers

The following groups have been mapped, but may not cover the complete distribution of the species:

- non-threatened seabirds which have only been mapped for recorded breeding sites
- seals which have only been mapped for breeding sites near the Australian continent

Such breeding sites may be important for the protection of the Commonwealth Marine environment.

Coordinates

-39.083119 146.324302,-39.083119 146.329795,-38.706893 146.450645,-38.633983 146.895591,-38.216551 147.411948,-37.978792 147.769004,-37.86179 148.098594,-39.892828 148.120566,-40.77633 148.071128,-40.76385 148.032676,-40.747206 147.961265,-40.77217 147.961265,-40.888549 147.862388,-40.888549 147.801963,-40.855319 147.758018,-40.859474 147.714072,-40.834542 147.670127,-40.859474 147.604209,-40.983994 147.494346,-41.008869 147.400962,-40.946662 147.340537,-40.95496 147.269126,-41.017159 147.164756,-40.992287 146.994468,-41.033736 146.934043,-41.029592 146.873618,-41.0793 146.725303,-41.141382 146.604453,-41.174468 146.445151,-41.170333 146.329795,-41.153791 146.18148,-41.087581 146.016685,-39.083119 146.324302

Acknowledgements

This database has been compiled from a range of data sources. The department acknowledges the following custodians who have contributed valuable data and advice:

- [-Office of Environment and Heritage, New South Wales](#)
- [-Department of Environment and Primary Industries, Victoria](#)
- [-Department of Primary Industries, Parks, Water and Environment, Tasmania](#)
- [-Department of Environment, Water and Natural Resources, South Australia](#)
- [-Department of Land and Resource Management, Northern Territory](#)
- [-Department of Environmental and Heritage Protection, Queensland](#)
- [-Department of Parks and Wildlife, Western Australia](#)
- [-Environment and Planning Directorate, ACT](#)
- [-Birdlife Australia](#)
- [-Australian Bird and Bat Banding Scheme](#)
- [-Australian National Wildlife Collection](#)
- [-Natural history museums of Australia](#)
- [-Museum Victoria](#)
- [-Australian Museum](#)
- [-South Australian Museum](#)
- [-Queensland Museum](#)
- [-Online Zoological Collections of Australian Museums](#)
- [-Queensland Herbarium](#)
- [-National Herbarium of NSW](#)
- [-Royal Botanic Gardens and National Herbarium of Victoria](#)
- [-Tasmanian Herbarium](#)
- [-State Herbarium of South Australia](#)
- [-Northern Territory Herbarium](#)
- [-Western Australian Herbarium](#)
- [-Australian National Herbarium, Canberra](#)
- [-University of New England](#)
- [-Ocean Biogeographic Information System](#)
- [-Australian Government, Department of Defence Forestry Corporation, NSW](#)
- [-Geoscience Australia](#)
- [-CSIRO](#)
- [-Australian Tropical Herbarium, Cairns](#)
- [-eBird Australia](#)
- [-Australian Government – Australian Antarctic Data Centre](#)
- [-Museum and Art Gallery of the Northern Territory](#)
- [-Australian Government National Environmental Science Program](#)
- [-Australian Institute of Marine Science](#)
- [-Reef Life Survey Australia](#)
- [-American Museum of Natural History](#)
- [-Queen Victoria Museum and Art Gallery, Inveresk, Tasmania](#)
- [-Tasmanian Museum and Art Gallery, Hobart, Tasmania](#)
- [-Other groups and individuals](#)

The Department is extremely grateful to the many organisations and individuals who provided expert advice and information on numerous draft distributions.

Please feel free to provide feedback via the [Contact Us](#) page.