

Table 2: Summary of key potential impacts and risks and proposed controls for installation activities

Aspect	Key impacts/risks	Key proposed control measures ¹
<p>First Nations cultural values (tangible and intangible)</p> <ul style="list-style-type: none"> - physical presence - seabed disturbance - underwater sound - air and light emissions - planned discharges 	<ul style="list-style-type: none"> • Potential disturbance to underwater cultural heritage (UCH) during installation activities. • Potential changes to cultural values, including songlines, dreaming stories and culturally important marine fauna. 	<ul style="list-style-type: none"> • Chevron Australia is committed to ongoing engagement and consultation with Traditional Owners and their representative bodies. • Chevron Australia inadvertent Aboriginal cultural heritage discovery procedures will be implemented where there are activities interacting with the seabed with the risk of disturbing unlocated First Nations UCH, to ensure discoveries are identified and responded to with adequate conservation and management actions. • Control measures related to marine fauna and other cultural values and features are outlined in sections below.
Planned activities		
<p>Physical presence of subsea infrastructure and vessels within the Operational Area (OA)</p>	<ul style="list-style-type: none"> • Presence of subsea infrastructure and vessels within the OA has the potential to interact and disrupt commercial shipping, fishing vessels and marine fauna. • Potential interaction with fishing vessels may result in entanglement of trawl fishing gear on subsea infrastructure. 	<ul style="list-style-type: none"> • Relevant parties will be advised of the commencement of key phases of the activity. • Marine safety information to be issued via AUSCOAST and/or Notice to Mariners (where required) prior to commencing the installation activity. • Vessels will meet Chevron Australia's crew competency, navigation equipment, and radar requirements as per the Chevron Corporation Marine Standard. • In accordance with EPBC Regulations 2000 – Part 8 Division 8.1 – Interacting with Cetaceans, vessels will implement caution and no approach zones, where practicable. • Where required, a simultaneous operation plan will be developed and implemented to manage the activity.
<p>Light emissions</p>	<ul style="list-style-type: none"> • Navigation and operational lighting from vessels within the OA may result in a localised and temporary change in ambient light. • Change in ambient light may result in the temporary attraction of light-sensitive species. 	<ul style="list-style-type: none"> • Vessels will meet lighting requirements of the Chevron Corporation Marine Standard. • Vessels working at night will be required to reduce external lighting to the minimum required for safe operations and navigation.
<p>Underwater sound from vessels and helicopter operations</p>	<ul style="list-style-type: none"> • Vessel and/or helicopter operations within the OA may result in localised and temporary increase to ambient underwater sound levels. • A change in ambient sound may result in temporary and localised behavioural disturbance to marine fauna. 	<ul style="list-style-type: none"> • In accordance with EPBC Regulations 2000 – Part 8 Division 8.1 – Interacting with Cetaceans, vessels will implement caution and no approach zones, and interaction management action. • Vessel bridge-watch crew will undertake marine fauna observations. • Pre-start visual observations will be undertaken prior to the commencement of installation activities.
<p>Seabed disturbance</p>	<ul style="list-style-type: none"> • Seabed disturbance from installation activities may result in the alteration of marine habitat and a localised and temporary change in water quality. 	<ul style="list-style-type: none"> • Pre-lay surveys will be conducted to identify and avoid emergent seabed features before installing subsea infrastructure. • Vessels will meet the crew competency, navigation equipment, and radar requirements in accordance with the Chevron Corporation Marine Standard.
<p>Air emissions</p>	<ul style="list-style-type: none"> • Combustion of fuel from vessels within the OA may result in a localised and temporary reduction in air quality. 	<ul style="list-style-type: none"> • Reduced sulphur content fuel will be used. • Vessels will comply with the requirements of Marine Order 97 (MARPOL 73/78 Annex VI) in relation to air pollution.
<p>Planned discharges from vessel operations</p>	<ul style="list-style-type: none"> • Planned discharges from vessel operations may result in localised and temporary change in water quality. 	<ul style="list-style-type: none"> • Vessels will comply with the requirements of Marine Order 96 (MARPOL 73/78 Annex IV) in relation to sewage discharge. • Vessels will comply with the requirements of Marine Order 95 (MARPOL 73/78 Annex V) in relation to food waste discharge. • Vessels will comply with the requirements of Marine Order 91 (MARPOL 73/78 Annex I) in relation to oily bilge water discharges.

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Unplanned risks		
Invasive marine pests	<ul style="list-style-type: none"> Planned discharged of ballast water or the presence of biofouling on vessels may result in the introduction of an invasive marine pest. 	<ul style="list-style-type: none"> Vessels will meet the requirements of the Chevron Australia Quarantine Management Procedure for Marine Vessels. Ballast water exchanges will be managed in accordance with the Australian Ballast Water Management Requirements. Vessels greater than 400 gross tonnes with an antifoul coating are to maintain an up-to-date international antifouling coating certification in accordance with the Protection of the Sea (Harmful Anti-fouling Systems) Act 2006 and/or relevant codes and standards. Where required, vessel pre-arrival information will be reported through the Maritime Arrivals Reporting System as per the Commonwealth Biosecurity Act 2015.
Unplanned release – hazardous materials	<ul style="list-style-type: none"> Unplanned release of hazardous material from vessel activities may result in impacts to the marine environment and fauna arising from chemical toxicity. 	<ul style="list-style-type: none"> Hazardous materials will be selected and managed in accordance with the Chevron Australia Hazardous Materials Management Procedure. Vessels will meet the requirements of the Chevron Corporation Marine Standard, including the pre-mobilisation inspections of equipment, couplings and secondary containment availability. Vessels will comply with the requirements of Marine Order 91 (MARPOL 73/78 Annex I) in relation to having an approved Ship Oil Pollution Emergency Plan in place.
Unplanned release - vessel collision/dropped objects and interaction with subsea infrastructure	<ul style="list-style-type: none"> Unplanned release of hydrocarbons from an accidental vessel collision or dropped object interacting with subsea infrastructure may result in marine pollution, smothering of subtidal and intertidal habitats, indirect impacts to fisheries, and reduction in amenity. 	<ul style="list-style-type: none"> Vessels will meet the crew competency, navigation equipment, and radar requirements of the Chevron Corporation Marine Standard. Marine safety information to be issued via AUSCOAST and/or Notice to Mariners (where required) prior to commencing the activity. Vessels will meet the requirements of the Chevron Australia Control of Work process, including safe lifting procedures. <p>Spill Response</p> <ul style="list-style-type: none"> Vessels will comply with the requirements of Marine Order 91 (MARPOL 73/78 Annex I) in relation to having an approved Ship Oil Pollution Emergency Plan in place. Emergency response will be implemented in accordance with the arrangements and strategies detailed in the Chevron Australia Oil Pollution Emergency Plan (OPEP). Where required, operational and scientific monitoring will be undertaken in accordance with the Chevron Australia Operational and Scientific Monitoring Plan (OSMP).
Emergency response		
Ground disturbance – shoreline spill response	<ul style="list-style-type: none"> In the event of an oil spill which impacts the shoreline, implementing shoreline clean-up techniques will involve people and equipment, which may disturb shoreline habitat with subsequent impacts to fauna. 	<ul style="list-style-type: none"> Where required, operational and scientific monitoring will be undertaken in accordance with the Chevron Australia OSMP. Emergency response will be implemented in accordance with the arrangements and strategies detailed in the Chevron Australia OPEP.
Physical presence – oiled wildlife response	<ul style="list-style-type: none"> In the event of an oil spill which impacts fauna, implementing wildlife response may require personnel to interact with fauna. 	<ul style="list-style-type: none"> Where required, operational and scientific monitoring will be undertaken in accordance with the Chevron Australia OSMP. Emergency response will be implemented in accordance with the arrangements and strategies detailed in the Chevron Australia OPEP.