

MARINE IMPACT ASSESSMENT

PROPOSED DEVELOPMENT OF THE GRANGER BAY PRECINCT AND LAND RECLAMATION AT THE V&A WATERFRONT



CONSTRUCTION PHASE

IMPACTS	MITIGATION MEASURES	SIGNIFICANCE AFTER MITIGATION
Disturbance of intertidal and subtidal artificial, and pelagic habitat	Mitigate by limiting the duration of construction activities and constraining the spatial extent of the impacts	Very low, negative
Impacts on the West Coast rock lobster	Mitigate with phased removal and potential translocation of individuals in high density zones	Low, negative
Effect of waste generation and disposal from construction activities on marine environment	Mitigation measures include informing and training all staff and reducing, reusing and recycling	Very low, negative
Pollution of marine ecosystems during and in-water marine construction	Mitigation measures include minimising sediment release and spread with phased construction, the use of silt curtains, and careful handling and placement of materials	Low, negative
The effect of increased noise and vibration on marine organisms	Mitigate by checking the noise emissions periodically to detect any unacceptable increase in noise	Insignificant negative
Impact of underwater noise on marine mammals	Mitigate by ensuring no marine mammals are within 500m of the site before commencing rock dumping into the ocean	Very low, negative
Impacts of vessel presence on marine mammals	Mitigate by driving vessels in a responsible manner and lookout for dolphins and whales at all times. If any impacts are observed these should be reported to the relevant authority	Very low, negative



POST-CONSTRUCTION PHASE

IMPACTS	MITIGATION MEASURES	SIGNIFICANCE AFTER MITIGATION
Change in habitat and system function	Mitigate by ensuring potential pollution sources are managed and accounting for potential changes in hydrodynamic function	Very low, negative
Loss of habitat and introduction of artificial habitat	No mitigation measures possible	Low, negative
Impacts on the West Coast rock lobster with an increase in habitat	None required	Low, positive
Increase in disturbance from vessel traffic	Mitigate by designating speed restricted areas to reduce underwater noise and conduct regular environmental awareness campaigns	Very low, negative
Impacts on marine mammals and avoidance of the area by Heaviside's dolphins	No mitigation measures possible	Medium, negative* Low, negative**

*In the event of permanent abandonment of the area by Heaviside's dolphins which is rated as low confidence

**In the event of partial abandonment and return of Heaviside's dolphins which is rated as medium confidence