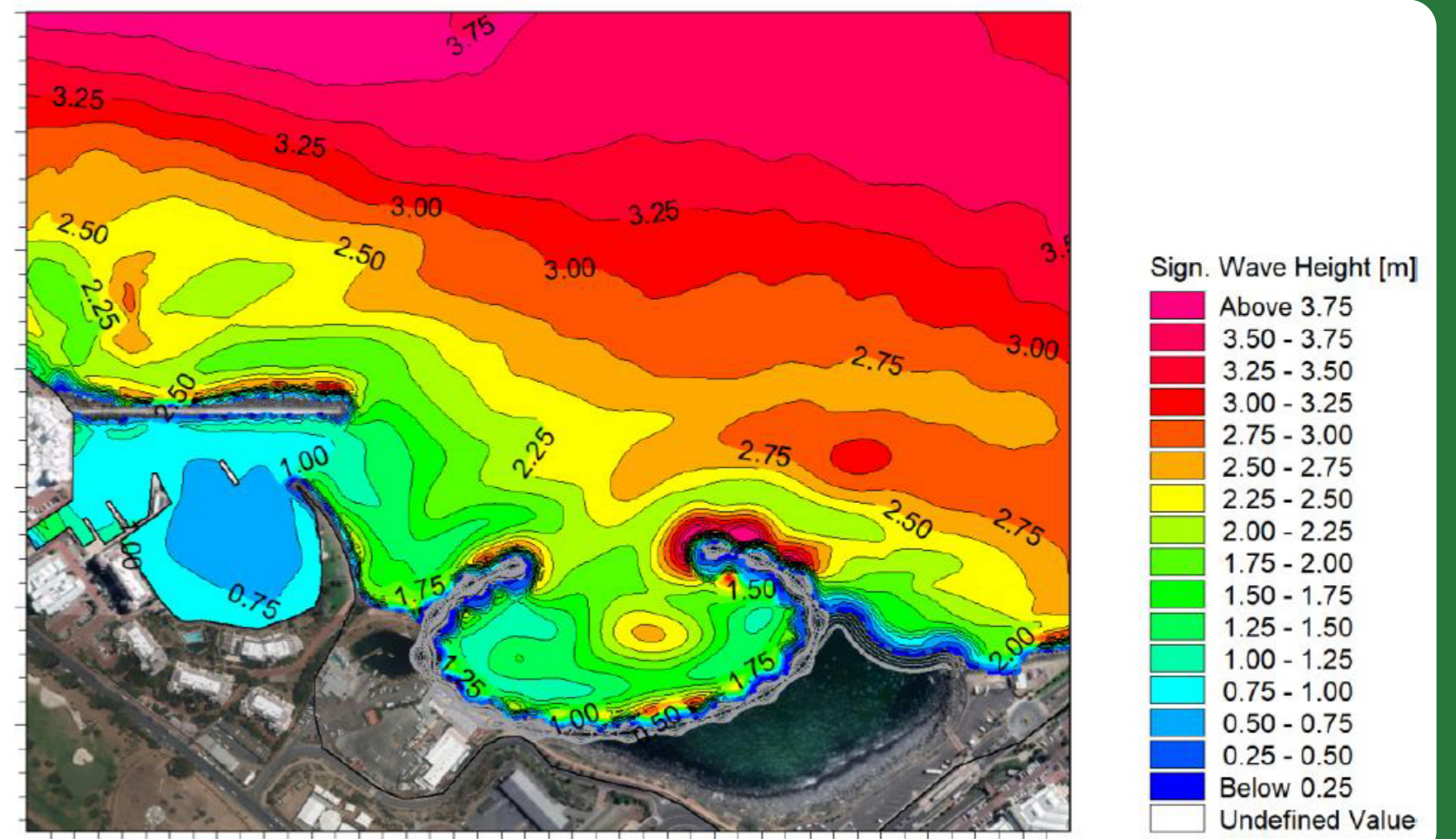


WAVE MODELLING ASSESSMENT

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

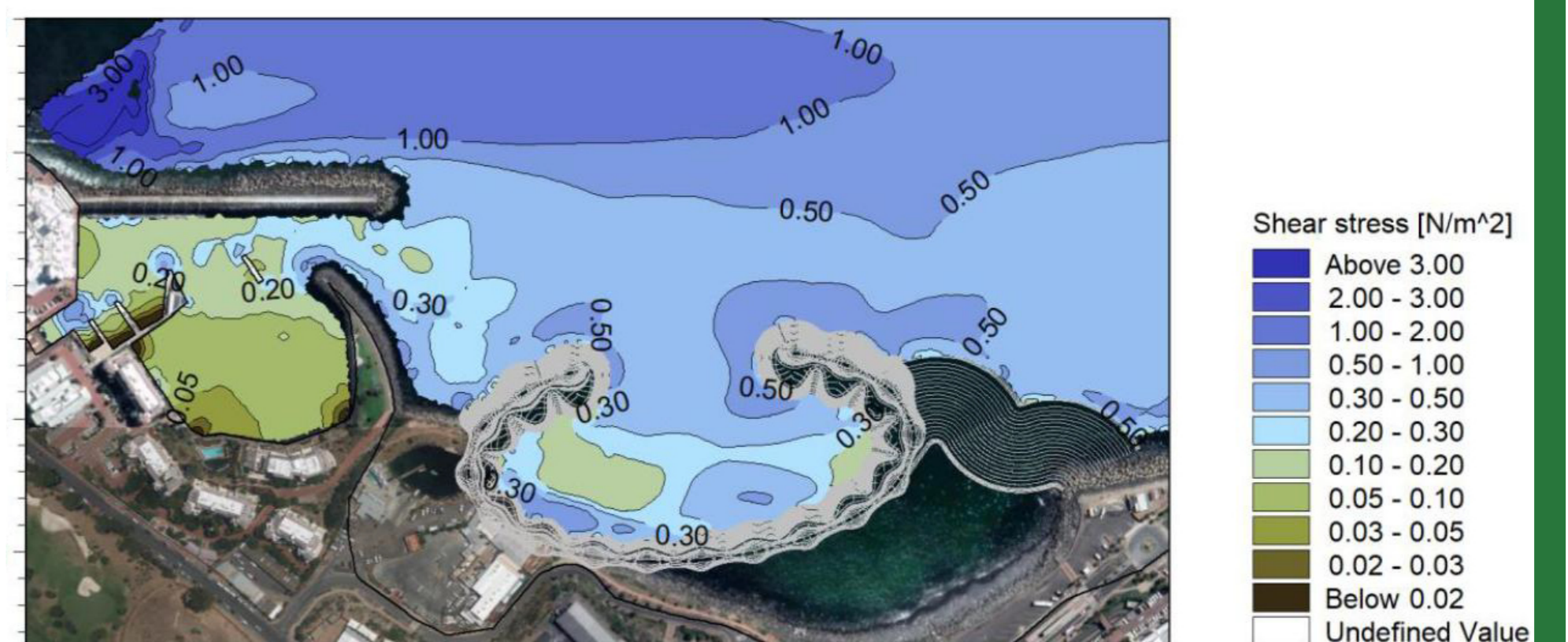
WAVE HEIGHTS

The development generally reduces significant wave heights within the bay due to increased sheltering. However, local amplification occurs in the centre of the new bay as a result of harbour resonance. Significant wave height within the Waterclub Marina is slightly reduced by the development. Wave heights within the development remain higher than those inside the Waterclub.



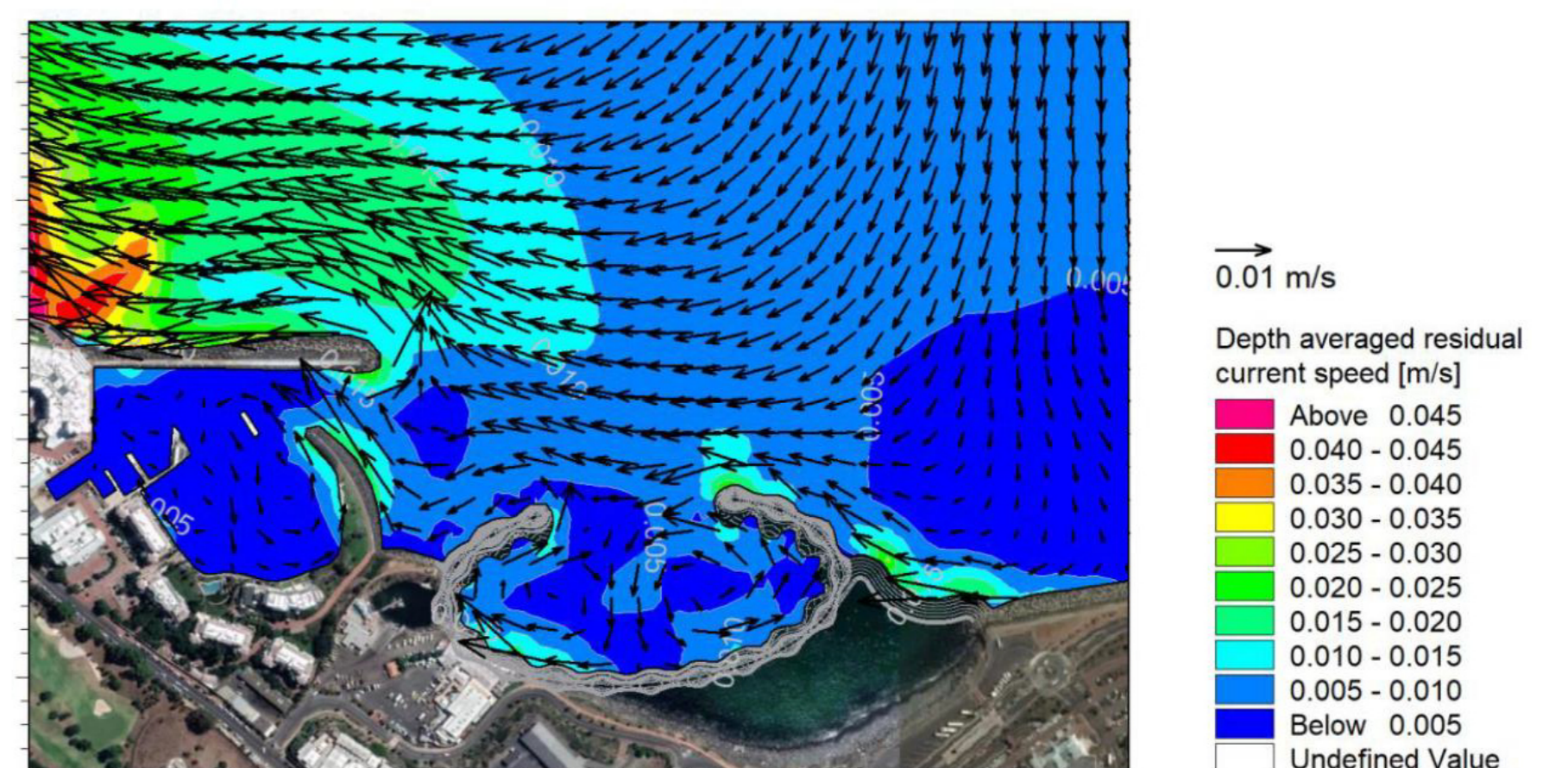
ACCUMULATION OF SEDIMENT

The proposed development does not result in significant changes in mud accumulation outside the proposed bay. The development will not result in a significant impact on the bed shear stresses in the Waterclub, and no additional mud accumulation and no additional volume of maintenance dredging is predicted for the Waterclub. Within the proposed new bay, finer sediments may accumulate on the seabed during summer, and there is some risk of longer-term mud accumulation.



FLUSHING

The proposed new bay maintains active flushing through residual circulation, although slightly weaker than under baseline conditions. Flushing remains stronger than within the Waterclub Marina.



TEMPERATURE

Modelled surface seawater temperatures show no meaningful increase within the development during summer. For the winter/spring case, a small increase of approximately 0.25°C is predicted within the basin. Temperature changes are localised and no significant effects are predicted beyond the immediate development area.

