



Capability Statement

Metocean Data Collection for Port Expansion

Client : ERM, Sunrise Energy, Basil Read



REQUIREMENTS

- Assessment of the potential impacts on the marine ecology of Saldanha Bay/Langebaan associated with the construction and operations of LPG terminals for gas imports.
- Environmental monitoring of turbidity levels in and around Saldanha Bay during the proposed dredging operations linked to the upgrade of the Maintenance Quay at the Port of Saldanha.

WORK DONE

- Assessment of the impacts associated with construction and operations of LPG on the marine ecology in Saldanha Bay.
- A comprehensive sediment properties and macrofauna distribution survey.
- Simulation modelling of the dredging induced turbidity plumes

Environmental monitoring of sediment and water quality characteristics at the port of Saldanha, which involved:

- Continuous monitoring of water quality in the area adjacent to the dredge area using two moored data buoys with real time data transmission.
- Real time integrated units deployed for the full duration of the dredging operation.
- CTD profile dips undertaken in and around the dredge area to confirm level of water column stratification.
- Continuation of the sediment monitoring programmes at the dredge area including monitoring of the distribution of sediment particle sizes, heavy metals and macrobenthos through grab sampling

OUTCOMES:

Lwandle provided good quality, robust data and reports to the clients which allowed for an efficient planning and execution of the project and compliance with the environmental management plan.



“ENVIRONMENTAL ASSESSMENTS AND MONITORING OF CONSTRUCTION PROJECTS FOR GAS IMPORTS INTO SALDANHA BAY”