

A blue fishing boat is positioned in the center of the frame, floating on a calm body of water. The boat has a white cabin and a mast with various equipment. In the background, a coastline with low hills and a sandy beach is visible under a clear blue sky. Several buoys are scattered across the water, indicating an aquaculture site.

# Saldanha Bay Aquaculture Development Zone Environmental Management Programme

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1. Background Information
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## Background Information

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- Introduction describing the farm location and coordinates as per the lease agreement with TNPA
- Species to be farmed and production estimates
- Mooring specifications
- Production and harvesting information



## Risk Management – Key environmental risks, severity and probability and ratings assigned to each

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- Marine mammals mortality as a consequence of being caught in long lines or droppers
- Build- up of compounds on seabed from mussel defaecation and/ or mortality
- Hazard to shipping as consequence of long- line breaking loose and drifting into channel
- Loss of biodiversity as consequence of introduction of new alien invasive species
- Localised marine benthic and pelagic mortality as a consequence of large scale mortality of mussels



## Risk Management continued...

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- Mortality of indigenous marine species as a consequence of introduction of disease at mussel farm
- Deterioration of visual landscape with mussel farm long-lines and floats
- Disruption of shipping/ recreational craft with mussel farm boats and infrastructure
- Generation of waste through mussel processing
- Public nuisance through generation of odours from mussel processing
- Poisoning of customers as a consequence of accumulation of heavy metals of toxins in the flesh of the mussels
- Colonisation of other areas with spat from the mussel farm



## Risk assessment

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- The EMP sets out the management procedures that seek to avoid or minimize the potential negative impacts anticipated by the risk assessment or to maintain or improve the quality of the surrounding natural and man-made environment during the course of the construction, operational and decommissioning phases of the project.
- The EMP is reviewed, revised on a regular basis as operations continue and a greater understanding of the impacts is achieved, or as legislation changes.



## Sections in the EMP

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### **Affected environment and anticipated environmental impacts**

- Site selection
- Terrestrial environment
- Marine environment
- Fauna
- Archaeology

### **Implementation of the EMP**

- Key legislation
- Responsibilities and organisational structure
- Monitoring, Auditing and reporting



# Operational management procedures

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## Environmental specifications

1. Background/ Anticipated Environmental Impacts/ Risks
2. Objectives
3. Performance Indicators
4. Procedures
5. Monitoring and Reporting
6. Responsibilities
7. Related Documents – Incident report form, EA, Mooring Plan, Environmental Awareness Training Plan, CVs of EAPs





# Finfish EMPs

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## Management Specifications

1. Cage assembly
2. Housekeeping and waste management
3. Infrastructure/ Equipment management
4. Water Quality Management
5. Pollution management
6. Escapee management
7. Disease management
8. Benthic Environment
9. Marine Animal management
10. Marine Traffic Management
11. Feed management
12. Incident management
13. Enforcement



# THANK YOU

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