

# CES EXPERTISE IN PORTS & HARBOURS

Established in 1990, we have gained invaluable experience as lead environmental consultants for numerous projects in the coastal zone. Since those early days we have expanded our offerings and now provide a wide variety of social and environmental advisory services to public and private-sector clients both in South Africa and internationally. This has resulted in us undertaking numerous projects for operators of ports and harbours and associated coastal infrastructure.

## CES SPECIALISES IN ENVIRONMENTAL AND SOCIAL ADVISORY SERVICES

CES has a sound knowledge of marine, coastal and terrestrial biophysical processes and national and international legislation, which allows us to understand the risks associated with port operations.

Environmental management within ports and harbours requires a sound knowledge of marine, coastal and terrestrial biophysical processes, national and international legislation, and an understanding of the risks and appropriate mitigation strategies more commonly associated with industrial operations. Other factors that increase the complexity of environmental management in the port environment include the legacies of past environmental management practices, the need to consider potentially contradictory views of multiple stakeholders (including tenants and the general public) and ensuring that management strategies complement the routine operations of ports. We also have experience in developing social and labour plans (SLPs) for the South African mining industry, and have undertaken scoping-level health impact assessments (HIAs) and livelihood restoration plans (LRPs). In some cases, we have assisted clients with the implementation of RAPs and associated programmes.

CES has provided extensive environmental services to South Africa's Transnet National Ports Authority (TNPA), both at a national level and to the operators of seven individual ports in South Africa. Moreover, we have been involved in port operations for other African countries including Angola, Liberia, Mozambique, Sierra Leone and Nigeria.

In addition to completing the seminal EIA for the deep-water Port of Ngqura, CESs services to the port sector have included strategic environmental assessments, a national ports climate change risk assessment, environmental risk, contaminated land and due diligence assessments, smaller EIAs and Basic Assessments, general audits and waste management plans. The products of many of these assessments have subsequently been incorporated into standard risk management procedures for South African ports.

For more information see [www.cesnet.co.za](http://www.cesnet.co.za)



## ENVIRONMENTAL PROJECTS SPECIFIC TO PORTS AND HARBOURS

### Environmental Impact Assessments

- ✓ Lead consultant and obtained the environmental approval for Greenfields Port of Ngqura outside Port Elizabeth and adjacent to the Coega Industrial Development Zone.
- ✓ EIAs for the Port Reclamation Project and the deepening of the Port of East London.
- ✓ Extensive environmental and EIA services for the Luanda Bay Waterfront Development in Luanda, Angola.
- ✓ ESIA for industrial jetties associated with the export of heavy minerals for new heavy mineral mining projects in Mozambique.
- ✓ ESIA for the Toliara Sands Projects industrial jetty at a Greenfields site in south-western Madagascar.
- ✓ EIA for the Kwale Minerals Project export facility in the Port of Mombasa.

### Environmental Risk Assessment

- ✓ Environmental risk assessment of alternative fuel bunkering modes in the Port of Port Elizabeth and developed operational risk management guidelines.
- ✓ Risk assessment and developed rehabilitation recommendations for ash contaminated land at TNPA's Burgersdorp railway shunting yard.
- ✓ The climate change risk assessment undertaken for all South African ports involved a detailed assessment of direct and indirect climate change-related risks and appropriate mitigation and adaptation strategies for all of the ports with a focus on the Ports of Richards Bay and Durban.
- ✓ Risk assessment for proposed coal terminal at the Port of East London.
- ✓ Environmental risk and liability assessment of the critical assets of the Port of Durban using a qualitative risk assessment approach.



## Audits and Due Diligence

- ✓ Environmental asset and liability assessment for the Port of Durban.
- ✓ Final environmental audit works to prevent sand migration at the Port of Port Elizabeth.
- ✓ Environmental due diligence assessments for sites near the Port of Port Elizabeth.

## Environmental Management

- ✓ Long-term rehabilitation plan for the Port of Ngqura.
- ✓ Bioremediation at a contaminated site in the Port of Port Elizabeth.
- ✓ Integrated Waste Management Plan for the Port of Mossel Bay.
- ✓ Integrated Environmental, Health and Safety Management Programme for the levelling works and dune rehabilitation at the Port of Port Elizabeth.
- ✓ Environmental input and EMP preparation for a breakwater rehabilitation programme for the Port of Cape Town.

- ✓ Environmental Management Plan for the management of marine alien invasive species introduced by offshore oil rigs using the Port of Ngqura for servicing and maintenance.

## Other

- ✓ Basic Assessment and water use licence application for a security wall between an informal housing area and a TNPA site in Port Elizabeth
- ✓ Strategic environmental assessments (SEAs) for the ports of East London and Port Elizabeth and the scoping phase of the SEA for the Port of Mossel Bay.
- ✓ SEA for the Iron Ore and Manganese Segment Strategy at the Port of Ngqura.
- ✓ Environmental pre-feasibility assessment for the upgrade of the Buchanan Port (Liberia).
- ✓ Marine Monitoring Programme for the Ambatovy Nickel Laterite Project, Tamatave,
- ✓ Madagascar.

