

# Khosi Ngema,

Senior Consultant

Khosi Ngema is a Consultant within ERM based in the Johannesburg office. She has 8 years' experience in the environmental consulting industry. Khosi has been involved in a variety of exciting projects within various sectors, including oil and gas, mining, renewable energy and the built environment. She has managed as well as been involved in various South African permitting projects including Environmental Impact Assessments, Water Use Licenses, screening assessments, audits and Due Diligence projects. As part of these processes, she has provided input and engaged in several stakeholder engagement processes, including liaising with the appropriate government bodies as per project requirements. Khosi is a registered scientist (*Pr.Sci.Nat*) with SACNASP as well as an EAPASA registered EAP.



**Experience:** 8 years' experience in the Environmental Consulting sector

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## Education

- Short course in Occupational Health and Safety, University of Cape Town, 2019
- BSc Honours in Environmental Sciences, University of KwaZulu-Natal – Pietermaritzburg, 2013
- BSc Environmental Sciences, University of KwaZulu-Natal – Pietermaritzburg, 2012

## Languages

- IsiZulu
- English

## Fields of Competence

- Environmental Authorisation (EA) Application
- Stakeholder Engagement Process
- Scoping and EIA Reporting
- Social Impact Assessment
- Environmental Management Programme report (EMPr)
- Environmental Control Officer (ECO) Audits
- Integrated Water and Waste Management Plan (part of water use license application process)

## Key Industry Sectors

- Mining and Minerals
- Waste Management
- Power
- Oil and Gas

## Honors and Awards

- 2012: Certificate of Merit with Distinction for Environmental Sciences
- 2018: Environmental Resources Management Service Excellence Award

## Key Projects

### **Environmental Impact Assessment Process for the Hugo and Khoe Wind Energy Facilities near De Doorns, Western Cape Province. The Energy Team, 2023**

#### *Project Manager*

The Energy Team appointed ERM to conduct an EIA process for their proposed Wind farms at the Hugo and Khoe sites in the Western Cape. Khosi was the Project Manager, Managing a team of 6 specialists together with an internal project team to bring this project to completion.

### **Screening Assessment for the proposed development of a Liquid Petroleum Gas (LPG) Facility at the Port of Cape Town. Burgan Cape Terminals, 2023.**

#### *Project Manager*

An Environmental and Social Screening Assessment was conducted, with the aid of the Department of Forestry, Fisheries and the Environment's (DFFE's) Screening Tool. The screening assessment was also conducted in line with the World Bank EHS Guidelines.

### **Environmental, Health and Safety (EHS) Due Diligence Audit for a paper pulp manufacturing plant in Durban, South Africa. Confidential Client, 2022**

#### *Consultant*

Throughout the course of this project, Khosi conducted the physical due diligence audit at the site. She liaised frequently with the client by way of obtaining necessary documentation. Subsequently, she compiled the due diligence report.

### **Due Diligence Audit for an Oil and Gas Company for various Sites across South Africa. Confidential Client, 2022**

#### *Consultant*

Using the data available in the Data Room, various retail sites were audited from a permitting and waste management perspective. Given the number of sites to be audited, Khosi's involvement was predominantly related to waste management. However, Khosi also provided support in the permitting audit.

### **Environmental Impact Assessment Process for the construction of Solar PV panels at a mining site, Confidential Client, South Africa, 2017**

#### *Consultant*

Khosi was involved with the compilation of the Scoping and EIA Reports for the development of a Solar PV plant within a Mining Right Area. A full stakeholder engagement process was also conducted as per NEMA EIA Regulations. During this process Khosi administered the development of the stakeholder database, the notification of all Interest and Affected Parties of the project, and coordination of the required public meetings.

### **ECO monthly audits during the construction of a new service station, Shell, South Africa, 2017**

#### *Environmental Control Officer*

Shell is constructing a new service station at Lazonia in Gauteng. They have existing authorization including and environmental authorisation, water use license (WUL) and environmental management programme (EMPr). Khosi has been involved in conducting monthly environmental compliance audits at this construction site, auditing the construction phase activities against the abovementioned authorisations. After the audit was conducted, reporting on the audit findings was done.

### **Water Use License Application (WULA) and associated Integrated Water and Waste Management Plan (IWWMP), Shell, South Africa, 2017**

#### *Consultant*

Shell Downstream South Africa (Pty) Ltd (Shell) has triggered water uses under the National Water Act for their Fuel Depot in Witbank, South Africa. Khosi was involved in the completion of the WULA and compiling the associated IWWMP for submission to the competent authority.

### **Environmental Impact Assessment for the Exploration Drilling within Block ER236, off the East Coast of South Africa, 2017-2018**

#### *Consultant*

Eni South Africa BV (Eni) have proposed to do exploration drilling to determine whether there are enough hydrocarbons under the seabed to undertake further development. Khosi's involvement in this project was primarily with the stakeholder engagement process.

**Basic Assessment (BA) for the Installation and Operation of a Waste Water Treatment Plant (WWTP), Biogas Storage, and Storage of Diesel Above Ground Storage Tanks (AST's), 2018**

*Consultant*

Distell Group Limited (Distell) have proposed to construct and operate a WWTP, Biogas Storage and the storage of Diesel AST's at the existing Distell site in Springs, Gauteng. Khosi was assisting in the compilation of the BA report as well as the WULA and supporting Integrated Water and Waste Management Plan (IWWMP).

**Water Use License Application (WULA) for the Installation and Operation of a Waste Water Treatment Plant (WWTP), Biogas Storage, and Storage of Diesel Above Ground Storage Tanks (AST's), 2019**

*Project Manager*

Distell Group Limited (Distell) have proposed to construct and operate a WWTP, Biogas Storage and the storage of Diesel AST's at the existing Distell site in Springs, Gauteng. Khosi was the Project Manager and undertook the full Water Use License process using the DWS online e-WULAAS portal.

**Screening Assessment for the Proposed Recommissioning of the Client's Chemical Storage Plant, 2019**

*Project Manager*

A confidential client appointed ERM to conduct a screening assessment and applicability checklist to determine which permits would be required for the proposed recommissioning of their chemical storage plant. Khosi was the designated project manager. She led the screening, authority liaisons as well as a subcontractor team.

**Social, Environmental and Economic Context Analysis (SEECA) for the Solar PV Farm proposed by Enel Green Power, 2020**

*Stakeholder Engagement Consultant*

Enel Green Power appointed ERM to conduct a SEECA study in the communities surrounding the proposed Solar PV Farm development in the Northern Cape. As part of this project, Khosi was responsible for gathering primary data from the interested and affected parties by way of conducting face-to-face surveys. This information

would later feed into the SEECA Report and Stakeholder Engagement Plan.

**Environmental Impact Assessment (EIA) Process for the Proposed 315MW Gas to Power Facility in Saldanha Bay in the Western Cape, 2020**

*Project Consultant*

Frontier Power SA (Pty) Ltd proposed to develop a Gas to Power Facility in the IDZ in Saldanha Bay, Western Cape. As such, an EIA process was triggered with supporting studies. Khosi was tasked with drafting the Environmental Management Programme and conducting the Social Impact Assessment associated with this project.

**Environmental Management Programme for a Multi-Client 3D Seismic Survey off the Coast of Port Elizabeth, in the Transkei Basin, South Africa, 2021**

*Project Consultant*

A confidential Client appointed ERM to complete and submit an Environmental Management Programme (EMPr) in support of a Reconnaissance Permit application which had previously been submitted to the Petroleum Agency of South Africa for the same site. Khosi was tasked with the completion of the EMPr with support from the appointed project specialists.

**Basic Assessment Report (BAR) for the Decommissioning and Removal of Fuel Storage Tanks, Kleinsee, Northern Cape, 2022**

*Project Manager*

Shell Kleinsee appointed ERM to complete and submit a Basic Assessment Report (BAR) and associated Environmental Management Programme (EMPr) for the decommissioning and removal of their fuel storage tanks from De Beer's Mining Right Area.

**Part 1 Amendment Process for Amending the Existing Environmental Authorisation to include an Updated Scope, Western Cape, 2022**

*Project Manager*

Burgan Cape Terminals Appointed ERM to undertake a Part 1 Amendment Application. BCT intends to change the use of two of their diesel storage tanks to store kerosene instead. Since this will not result in an increase in emissions or storage capacity, a Part 1 Amendment was required. Khosi

managed this project, while ensuring that a process to amend the existing Atmospheric Emissions License was also amended to include the storage of kerosene.

**Scoping of Environmental, Social and Gender Impacts along the Container Corridor in South Africa, 2022**

*Project Manager*

ERM was appointed by Thelo DB to support Transnet in identifying and evaluating options to improve the competitiveness and efficiency of the container corridor and the development of options for private sector participation. This is to be achieved in co-ordination with the proposed improvements at the Durban, Ngqura and inland terminals. While this project constituted of various elements, Khosi managed the ERM project team to ensure that the environmental and social scoping study was conducted according to World Bank standards.