

Site Sensitivity Verification Report
Lomond Safari 88kv Powerline



MuTingati

Environmental, Health & Safety Consulting

1. PROJECT TITLE

Lomond Safari 88kV Powerline.

2. APPLICANT DETAILS

- Applicant Name: Eskom Holdings SOC Limited
- Postal Address: 16 Kgwebo Street, Mabe Park, Waterfall East, Rustenburg, 0321

3. ENVIRONMENTAL ASSESSMENT PRACTITIONER DETAILS FOR COMPILATION OF THIS REPORT

- Environmental Assessment Practitioner Company: MuTingati Environmental and Projects
- Contact Person: Lizette Kloppers
- Postal Address: 476 Felstead Avenue, 121 Grand Rapids, Northriding, 2169
- Telephone Number: 061 524 2211
- Fax Number: 086 552 6837
- Email Address: lizette@earthnsky.co.za / lizette.earthnsky@gmail.com
- Qualifications and expertise of the EAP to prepare the Report: MSc Environmental Management – University of London External Programme; More than 12 years' experience as an EAP
- Professional affiliation/registration: SACNASP Reg. No. 115453; EAPASA Reg No. 2019/767

The EAP's CV is attached at the end of this document.

4. SITE SENSITIVITY VERIFICATION

4.1 Introduction

The following is stipulated for Site Sensitivity Verifications in terms of the Procedures for the Assessment and Minimum Criteria for Reporting on identified Environmental Themes in terms of Sections 24(5)(a) and (h) and 44 of the National Environmental Management Act, 1998, when applying for Environmental Authorisation (GN No. 320 of 20 March 2020):



1.1 The site sensitivity verification must be undertaken by an environmental assessment practitioner or a specialist.

1.2. The site sensitivity verification must be undertaken through the use of:

- (a) a desk top analysis, using satellite imagery;
- (b) a preliminary on-site inspection; and
- (c) any other available and relevant information.

1.3. The outcome of the site sensitivity verification must be recorded in the form of a report that-

- (a) confirms or disputes the current use of the land and the environmental sensitivity as identified by the screening tool, such as new developments or infrastructure, the change in vegetation cover or status etc.;
- (b) contains a motivation and evidence (e.g. photographs) of either the verified or different use of the land and environmental sensitivity; and
- (c) is submitted together with the relevant assessment report prepared in accordance with the requirements of the Environmental Impact Assessment Regulations (EIA Regulations).

4.2 Project Site Sensitivity Verification

4.2.1 Screening Report

The Screening Report for the project site, as generated on the National Web based Environmental Screening Tool, identified the following site environmental sensitivities:

Low sensitivities:

- Relative Agricultural Theme
- Relative Aquatic Biodiversity Theme (most of the proposed powerline route)
- Archaeological and Cultural Heritage Theme (the eastern part of the proposed powerline route)

Medium sensitivities:

- Relative Animal Species Theme
- Defence Theme
- Relative Plant Species Theme

High Sensitivities:

- Civil Aviation Theme
- Palaeontology Theme



Very High Sensitivities:

- Relative Aquatic Biodiversity Theme (a channel on the western part of the proposed powerline route)
- Archaeological and Cultural Heritage Theme (the western part of the proposed powerline route)
- Relative Terrestrial Biodiversity Theme

The following specialist assessments were identified in the Screening Report for inclusion in the Basic Assessment Report for the proposed project:

- Agricultural Impact Assessment
- Landscape/Visual Impact Assessment
- Archaeological and Cultural Heritage Impact Assessment
- Palaeontology Impact Assessment
- Terrestrial Biodiversity Impact Assessment
- Aquatic Biodiversity Impact Assessment
- Avian Impact Assessment
- Civil Aviation Assessment
- RFI Assessment
- Geotechnical Assessment
- Plant Species Assessment
- Animal Species Assessment

In terms of the Screening Report, it is the responsibility of the Environmental Assessment Practitioner to confirm the list of specialist assessments and motivate in the Basic Assessment Report the reason for any of the specialist assessments that were not conducted and included in the assessment report, including the provision of photographic evidence of the site situation in such cases.

4.2.2 Discussion of each Environmental Theme, required Specialist Assessments and Compliance Statements

The Environmental Assessment Practitioner for this project has undertaken the Site Sensitivity Verification and has made use of the following information in order to compile this report:

- (a) a desk top analysis, using satellite imagery; and
- (b) a preliminary on-site inspection on 8 December 2021.



Relative Agricultural Theme (low sensitivity)

The site is in a mostly disturbed state and there are no agricultural areas or land uses present on site. This is confirmed by the site photographs (evidence) provided under Section 4.2.3 below. The proposed project will not have any impacts upon agricultural production capabilities of the site as the site is mostly disturbed and is not used for agricultural purposes. The site is an Industrial site. The “low” Agricultural Theme sensitivity, as stated in the Screening Report, is hereby confirmed by the EAP. No Agricultural Potential Assessment was undertaken.



Figure 1: Screening Report overlay map of the project site and the Relative Agricultural sensitivity

Relative Aquatic Biodiversity Theme (low and very high sensitivity)

The very high sensitivity feature identified in the Screening Report, namely that the proposed powerline route is situated within an Aquatic Critical Biodiversity Area (CBA) is not refuted by the EAP. A Watercourses Assessment has therefore been included in the Basic Assessment process.





Figure 2: Screening Report overlay map of the project site and the Aquatic Biodiversity Sensitivity

Archaeological and Cultural Heritage Theme (low and very high sensitivity)

The very high sensitivity feature identified in the Screening Report, namely that the proposed powerline route is situated within 2km of a Grade II Heritage site is not refuted by the EAP. A Phase 1 Archaeological/Heritage Impact Assessment has therefore been included in the Basic Assessment process and the report was also uploaded onto the South African Heritage Resources Information System for review.





Figure 3: Screening Report overlay map of the project site and the Archaeological and Cultural Heritage Sensitivity

Palaeontology Theme (high sensitivity)

The high sensitivity feature identified in the Screening Report, namely that the proposed powerline route is situated within a High paleontological sensitivity is not refuted by the EAP. A Palaeontological Desktop Assessment has therefore been included in the Basic Assessment process and the report has also been uploaded onto the South African Heritage Resources Information System for review.



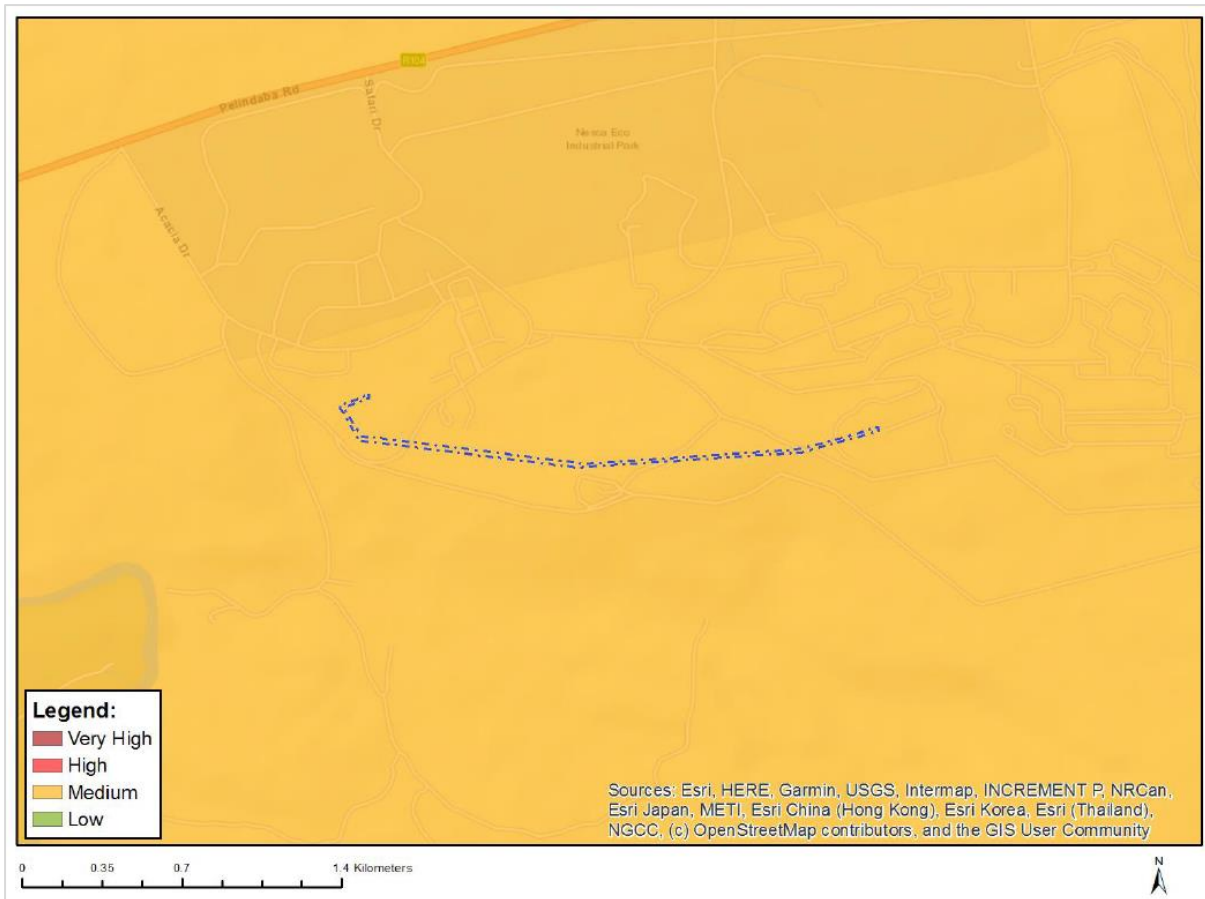


Figure 5: Screening Report overlay map of the project site and the Defence Sensitivity

Civil Aviation Theme (medium and high sensitivity)

The medium- and high sensitivity features identified in the Screening Report, namely that the proposed powerline route is situated within 8km of a civil aviation aerodrome (high sensitivity) and between 15km and 35km from a major civil aviation aerodrome (medium sensitivity) is not refuted by the EAP. NECSA (the project site), as a National Key Point, is a “prohibited flying area” (FAP64), as approved by the South African Civil Aviation Authority (SACAA).

The SACAA has also been included as a Interested and Affected Party for the project and the Background Information Document has been sent to the following sections/Departments at the SACAA for commenting:

- Environmental Evaluator
- Aerodromes and Facilities
- Air Navigation Services
- Obstacle Applications, Management and Control

Feedback and requirements by the SACAA will be considered and addressed.



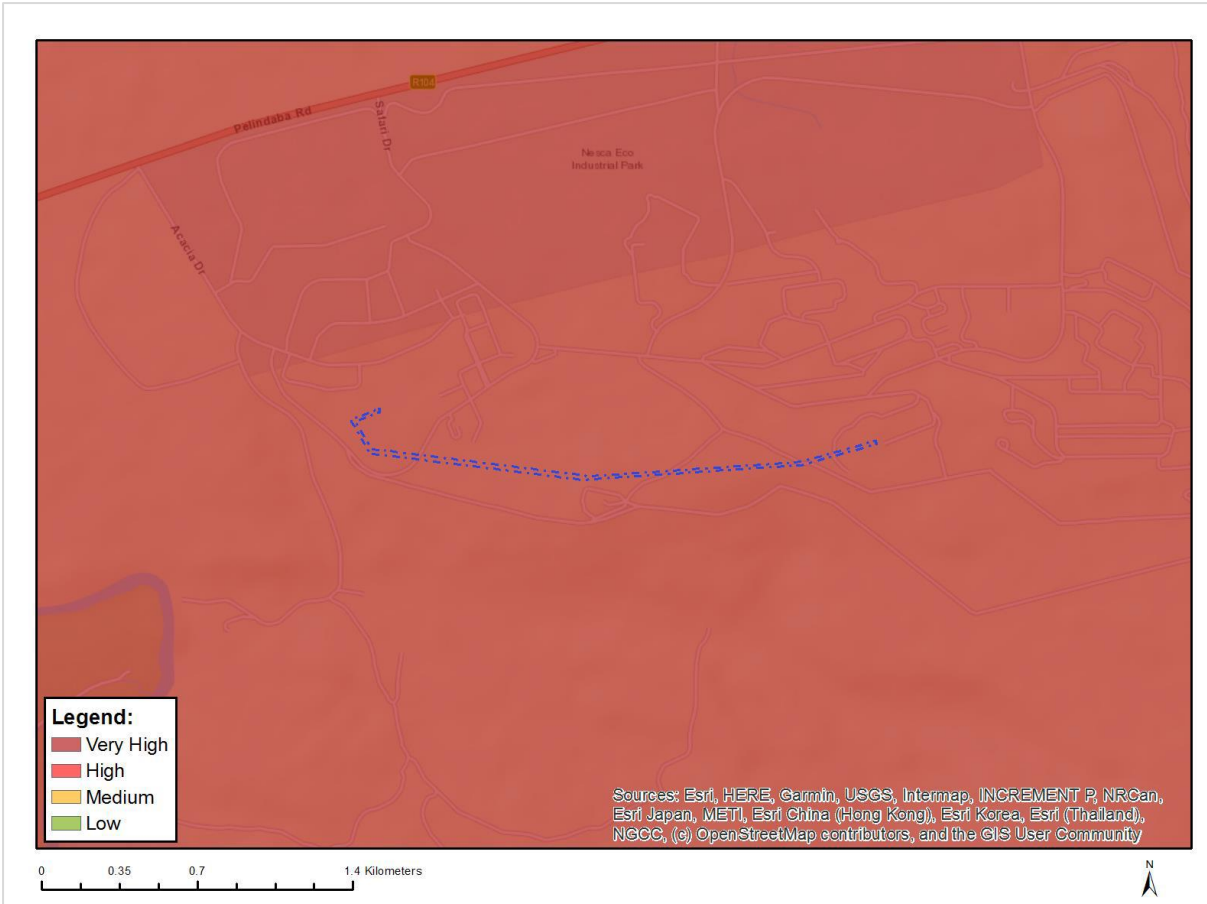


Figure 7: Screening Report overlay map of the project site and the Terrestrial Biodiversity Sensitivity

Relative Plant Species Theme (medium sensitivity)

The medium sensitivity feature identified in the Screening Report, namely that the proposed powerline route is situated within an area where a number of sensitive plant species may be found is not refuted by the EAP. A Terrestrial Biodiversity (Vegetation) Assessment has therefore been included in the Basic Assessment process.



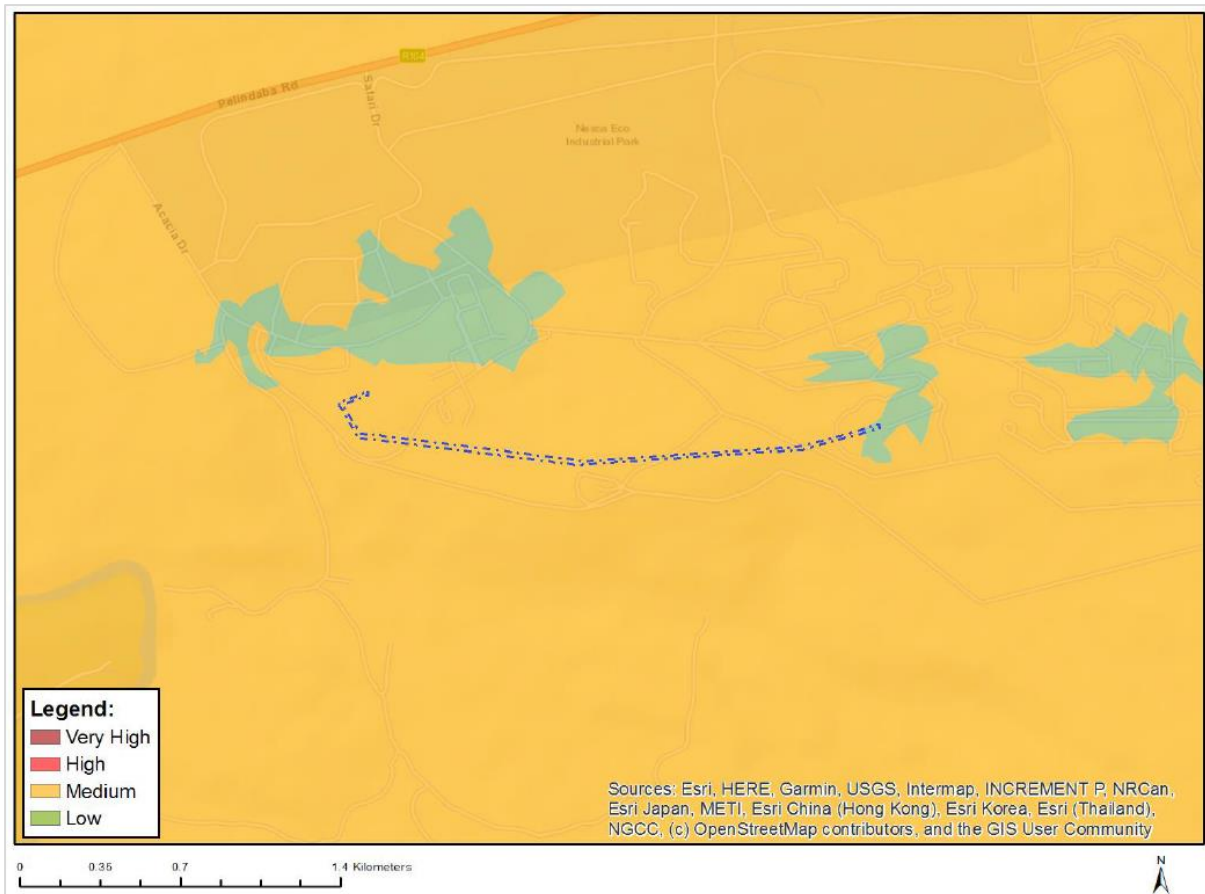


Figure 8: Screening Report overlay map of the project site and the Plant Species Sensitivity

Relative Animal Species Theme (medium sensitivity)

The medium sensitivity feature identified in the Screening Report, namely that the proposed powerline route is situated within an area where a number of sensitive animal species may be found is not refuted by the EAP. A Terrestrial Fauna Assessment and an Avifaunal Impact Assessment has therefore been included in the Basic Assessment process.



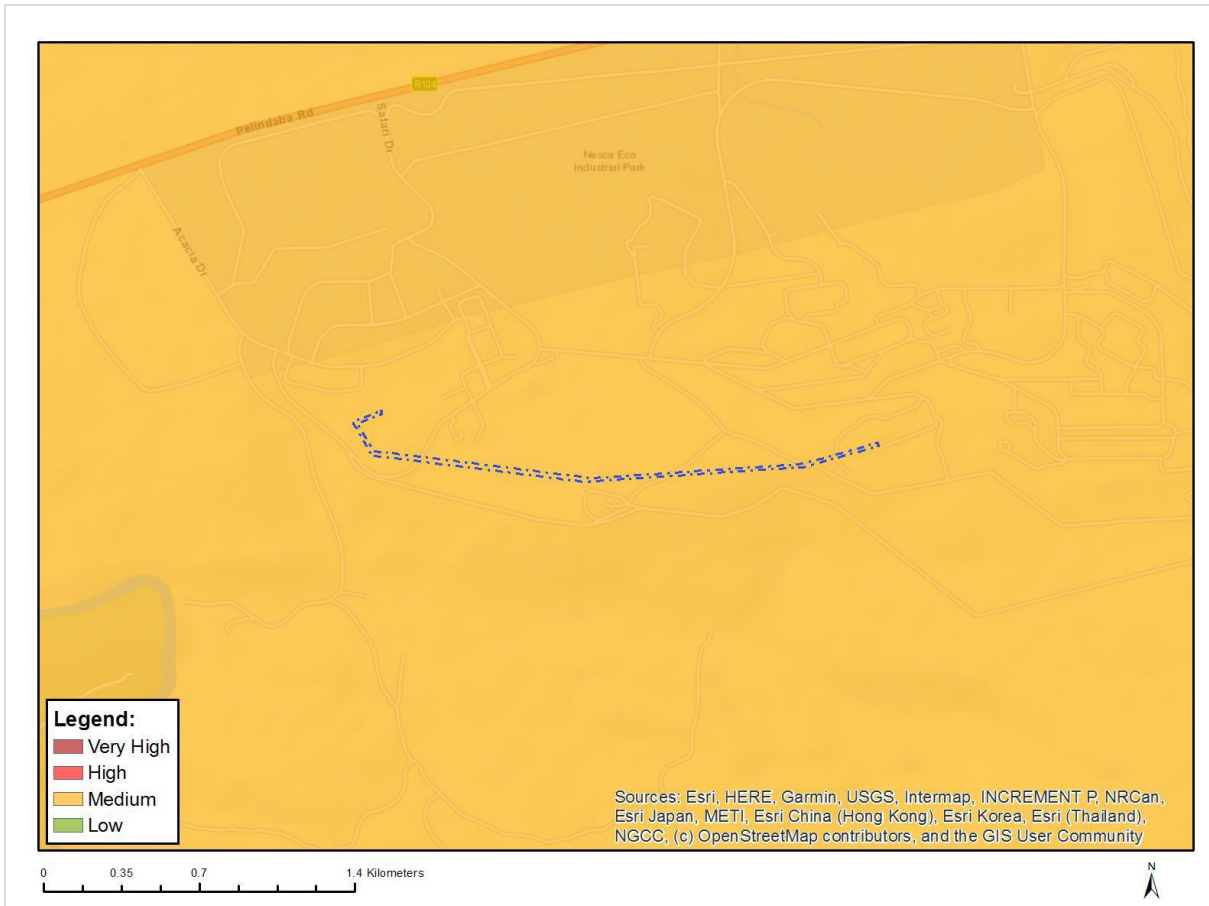


Figure 9: Screening Report overlay map of the project site and the Animal Species Sensitivity

Other Specialist Assessments identified in the Screening Report

The following Specialist Assessments were also identified in the Screening Report for the proposed project:

- Landscape/Visual Impact Assessment
- RFI (Radio Frequency Interference) Assessment
- Geotechnical Assessment

Landscape/Visual Impact Assessment

A Landscape/Visual Impact Assessment has been included in the Basic Assessment process.

RFI (Radio Frequency Interference) Assessment

The Applicant has confirmed that previous studies were done on the Radio Frequency Interference of powerlines and that no negative impact would result due to the proposed powerline project. No RFI Assessment has therefore been conducted.



Geotechnical Assessment

The Applicant has confirmed that a Geotechnical Assessment will be conducted prior to construction of the proposed powerline (if Environmental Authorisation is granted by the Competent Authority).



4.2.3 Site Photographs (evidence)





DECLARATION OF INDEPENDENCE

I, Lizette Kloppers, in my capacity as Environmental Assessment Practitioner, hereby declare that I –

- Act as an independent consultant;
- Do not have any business, financial, personal or other interest in the activity or application in respect of which I have been appointed in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), other than fair remuneration for the work performed; and
- That there are no circumstances that may compromise my objectivity in performing the work that I have been appointed for.



Lizette Kloppers (Reg. EAP)
Environmental Assessment Practitioner
SACNASP Reg. No. 115453
EAPASA Reg No. 2019/767

2022-03-31

Date



CV OF ENVIRONMENTAL ASSESSMENT PRACTITIONER



Curriculum Vitae Lizette Kloppers

PERSONAL DETAILS

Full Names	Lizette Kloppers
ID Number	8712010057083
Date of Birth	1 December 1987
Marital Status	Married
Home language	Afrikaans (Speak, read and write)
Other languages	English (Speak, read and write)
Nationality	South African
Gender	Female
Contact Details	E-MAIL : lizette@earthnsky.co.za CELL : 061 524 2211
Professional Registrations	EAPASA: 2019/767 SACNASP: 115453

QUALIFICATIONS AND TRAINING COURSES

Qualification	Institution	Year
BSc BIODIVERSITY AND ECOLOGY cum laude	UNIVERSITY OF STELLENBOSCH	2009
Postgraduate certificate in ENVIRONMENTAL MANAGEMENT (upgraded to MSc)	UNIVERSITY OF LONDON – EXTERNAL SYSTEM	2010
Certificate: Greening your Business (Nedbank and BusinessDay course)	NEDBANK	2011
Environmental Law for Environmental Managers	NORTH WEST UNIVERSITY - CENTRE FOR ENVIRONMENTAL MANAGEMENT	2013
MSc ENVIRONMENTAL MANAGEMENT with merit	UNIVERSITY OF LONDON – INTERNATIONAL PROGRAMMES	2014
An Introduction to Waste Classification in South Africa: Towards Implementation of the National Environmental Management Waste Act	NORTH WEST UNIVERSITY - CENTRE FOR ENVIRONMENTAL MANAGEMENT	2014
Resource Efficiency and Cleaner Production (RECP) Introductory Course	NATIONAL CLEANER PRODUCTION CENTRE (NCPC)	2015
ISO 14001:2015 Requirements	BSI SOUTH AFRICA	2016
Energy Management Systems (EnMS) End User Training	NATIONAL CLEANER PRODUCTION CENTRE (NCPC)	2016
GLOBALG.A.P. Public Farm Assurer Workshop – Crops (F&V)	GLOBALG.A.P. ACADEMY	2017
Energy Management 101	NATIONAL CLEANER PRODUCTION CENTRE (NCPC)	2017
Energy Performance Measurement Indicators (EnPI)	NATIONAL CLEANER PRODUCTION CENTRE (NCPC)	2020
Carbon Footprint Analyst	TERRA FIRMA ACADEMY	2020

WORK EXPERIENCE

Current employment:

- EARTHnSKY Environmental – Director and Environmental Consultant – 8 April 2016 – present.

Full time work performed is as follows.

- Research assistant – data collection for a PhD project – 14 October – 9 November 2010.
- African Bank – administrative assistant; full-time and temporary contract – 3 Jan 2010 – 29 April 2011.
- Shangoni Management Services – Senior Environmental Consultant – 3 May 2011 – 7 April 2016.

Part time work performed is as follows.

- Student representative for Zoology 315 and Zoology 354.
- Research assistant – data collection for BScHons and PhD projects: during my BSc studies.
- Temporary Project Assistant; African Bank Limited: 13 April – 13 July 2010.

Experience includes Environmental Authorisation applications (including Basic Environmental Impact Assessments, full Scoping and Environmental Impact Assessments, Waste Management Licence applications, Section 24G Rectification applications and Water Use Licence applications) and Environmental Legal Compliance Audits. Clients include some of the leading agricultural and industrial companies in South Africa, such as AFGRI Operations Limited and DMS Powders.

REFERENCES

Name	Organisation/Institution
1. Ruzelle Myburgh	DMS Powders
2. Salome Beeslaar	BECS Services
3. Cara Terblanche	SFP Townplanning
4. Tania van Staden	ARISCU
5. Lourens de Villiers	Labesh
6. Charlotte Maphaha	Southern Proteins

Contact details will be provided upon request.