

Site Sensitivity Verification Report  
Expansion of the Excelsior Abattoir -  
Kuruman



**EARTHnSKY**  
environmental



## 1. PROJECT TITLE

Expansion of the Excelsior Abattoir – Kuruman.

## 2. APPLICANT DETAILS

- Applicant Name: Excelsior Abattoir CC
- Postal Address: P.O. Box 1110, Kuruman, 8460

## 3. ENVIRONMENTAL ASSESSMENT PRACTITIONER DETAILS FOR COMPILATION OF THIS REPORT

- Environmental Assessment Practitioner Company: EARTHnSKY Environmental (Pty) Ltd.
- Contact Person: Lizette Kloppers
- Postal Address: PO Box 5419, Rietvalleirand, 0174
- 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:

- Animal Species Theme
- Defense Theme
- Plant Species Theme

Medium sensitivities:

- Agriculture Theme

High sensitivities:

- Civil Aviation Theme

Very high sensitivities:

- Terrestrial Biodiversity Theme
- Archaeological and Cultural Heritage Theme
- Aquatic Biodiversity Theme
- Paleontology 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
- Archaeological and Cultural Heritage Impact Assessment
- Palaeontology Impact Assessment
- Terrestrial Biodiversity Impact Assessment
- Aquatic Biodiversity Impact Assessment
- Marine Impact Assessment
- Noise Impact Assessment
- Traffic Impact Assessment
- Health Impact Assessment
- Socio-Economic Assessment
- Ambient Air Quality Impact Assessment
- Air Quality Impact 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 27 June 2022.

##### **Aquatic Biodiversity Theme (Very high sensitivity) Compliance Statement**

The site is in a completely transformed state and there are no aquatic features present on site. This is confirmed by the site photographs (evidence) provided under Section 4.2.3 below. The site was visited on 27 June 2022 (during the winter season) and the duration of the site inspection was four (4) hours. The site is classified as a “very high sensitivity” Aquatic Biodiversity Theme sensitivity as the entire area is classified as a “strategic water resource area”, as stated in the Screening Report. As there are no aquatic features present on site, it is concluded that an Aquatic Biodiversity Impact Assessment is not required for the proposed project.

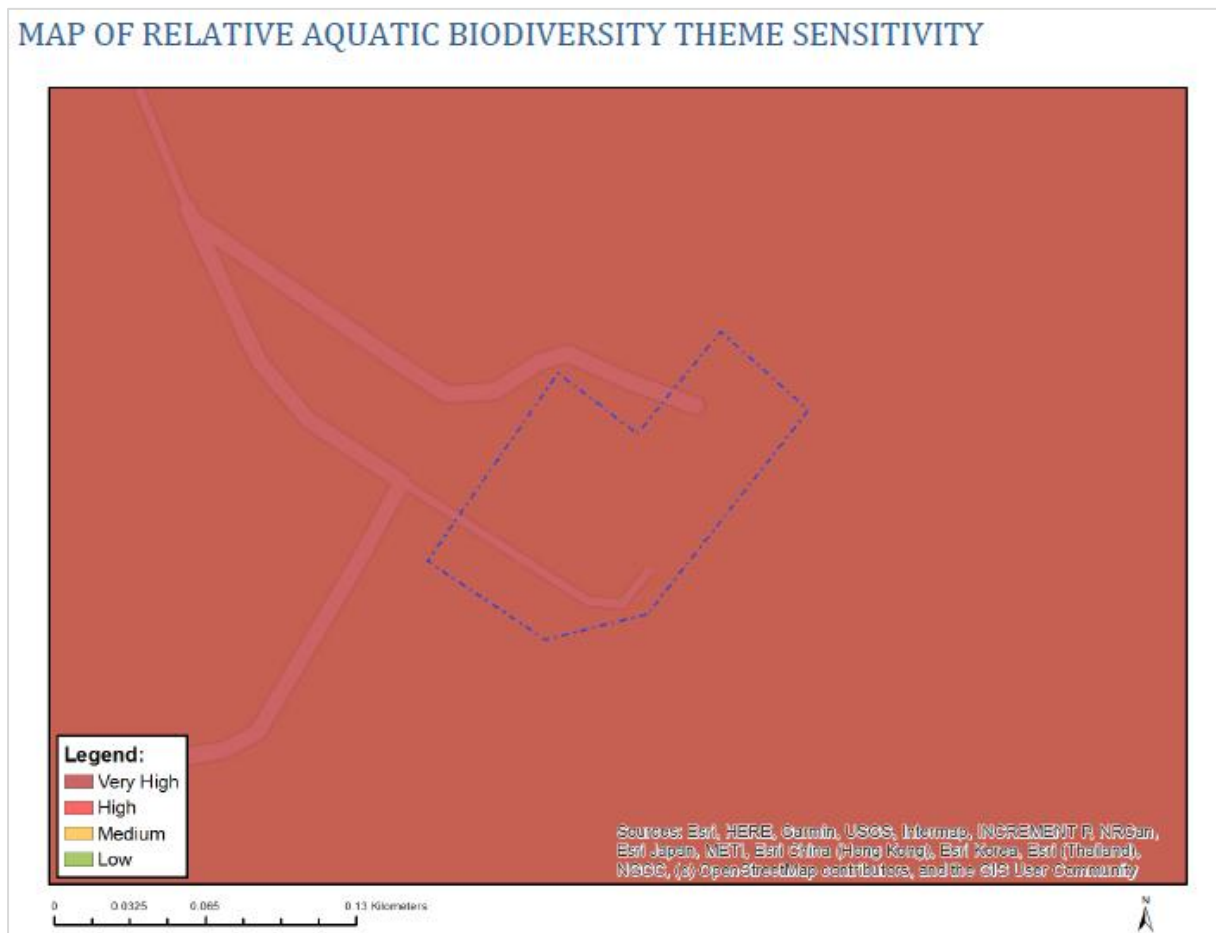


Figure 1: Screening Report overlay map of the project site and the Aquatic Biodiversity Sensitivity

##### **Agriculture Theme (medium sensitivity, but low sensitivity for the proposed expansion areas) Compliance Statement**

The site is in a completely transformed 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 completely transformed and is

not used for activities such as crop production). The “medium” Agricultural Theme sensitivity of a part of the site, as stated in the Screening Report, is hereby refuted by the EAP. The sensitivity should rather be “low”. The “low” sensitivity of the majority of the site, as stated in the Screening Report, is confirmed by the EAP. It is concluded that an Agricultural Impact Assessment is not required for the proposed project.

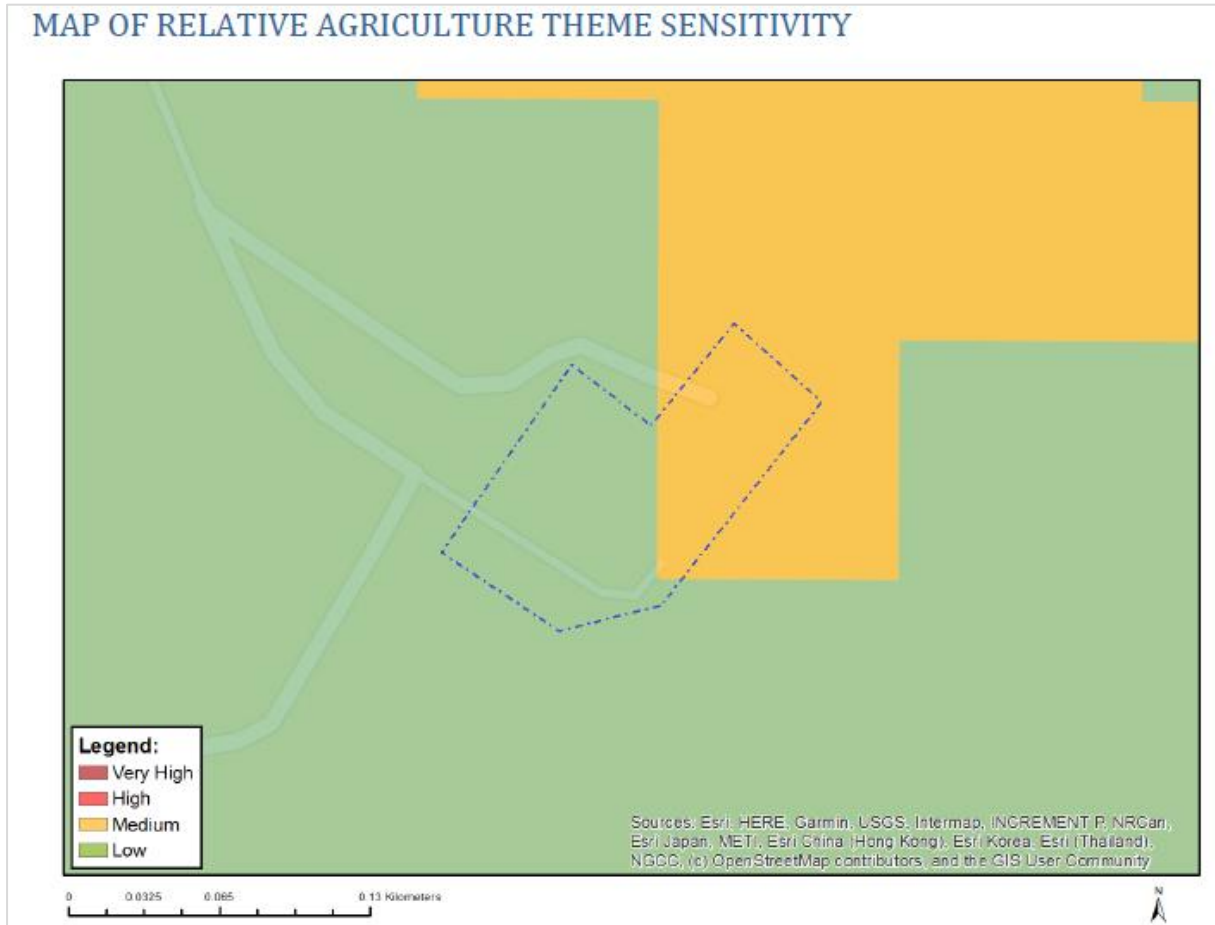


Figure 2: Screening Report overlay map of the project site and the Agricultural Sensitivity

### Animal Species Theme (low sensitivity) Compliance Statement

The site is in a completely transformed state and there are no natural habitats present. This is confirmed by the site photographs (evidence) provided under Section 4.2.3 below. The “low” Animal Species Theme sensitivity, as stated in the Screening Report, is hereby confirmed by the EAP. It is concluded that an Animal Species Assessment is not required for the proposed project.

## MAP OF RELATIVE ANIMAL SPECIES THEME SENSITIVITY



Figure 3: Screening Report overlay map of the project site and the Animal Species Sensitivity

### Plant Species Theme (low sensitivity) Compliance Statement

The site is in a completely transformed state and there are no natural habitats present. This is confirmed by the site photographs (evidence) provided under Section 4.2.3 below. The “low” Plant Species Theme sensitivity, as stated in the Screening Report, is hereby confirmed by the EAP. It is concluded that a Plant Species Assessment is not required for the proposed project.

## MAP OF RELATIVE PLANT SPECIES THEME SENSITIVITY

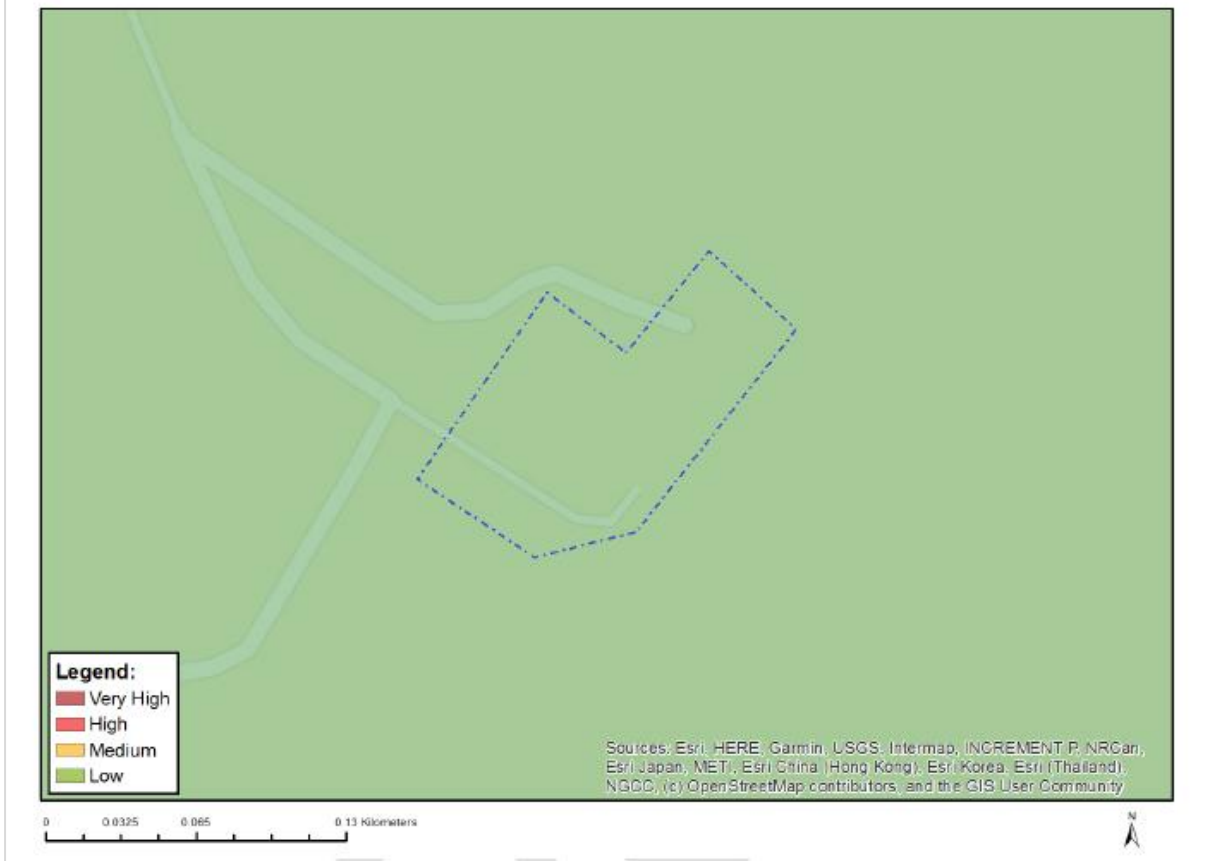


Figure4: Screening Report overlay map of the project site and the Plant Species Sensitivity

### Defence Theme (low sensitivity) Compliance Statement

The “low” Civil Aviation Theme sensitivity, as stated in the Screening Report, is hereby confirmed by the EAP. No defence sites are known to exist at or near the site. It is concluded that a Defence Assessment is not required for the proposed project.

## MAP OF RELATIVE DEFENCE THEME SENSITIVITY



Figure5: Screening Report overlay map of the project site and the Defence Sensitivity

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

The site is in a completely transformed state. This is confirmed by the site photographs (evidence) provided under Section 4.2.3 below. The “very high” Archaeological and Cultural Heritage Theme sensitivity due to the site being within 2km of a Grade II Heritage site, as stated in the Screening Report, is not refuted by the EAP. A Motivation for Exemption from a full Phase I Heritage Impact Assessment has therefore been compiled and the report has also been uploaded onto the South African Heritage Resources Information System for review by SAHRA in order to obtain their comments.

The conclusion of the heritage specialist was that the site would have been heavily disturbed in the recent past, mainly through agricultural activities (livestock) and the development of the existing Excelsior Abattoir (by its previous owners). The original natural and historical landscape at the abattoir has been completely altered through these activities, and as a result if any cultural heritage (archaeological and/or historical) sites or features existed on site in the past, they would have been fairly extensively disturbed or even destroyed. The topography of the study area is also flat and open, with no rocky outcrops, ridges or hills present. The specialist recommended that exemption be granted from a full Phase I Heritage Impact Assessment.

No foundations will be dug, and it is therefore expected that the bedrock below the site will not be transformed. It is therefore expected that no underground Archaeological, Cultural Heritage or Palaeontological resources will be impacted upon by the proposed project.



## MAP OF RELATIVE ARCHAEOLOGICAL AND CULTURAL HERITAGE THEME SENSITIVITY



Figure 6: Screening Report overlay map of the project site and the Archaeological and Cultural Heritage Sensitivity

### Civil Aviation Theme (high sensitivity) Compliance Statement

The sensitivity features identified in the Screening Report, namely that the site is situated “within 8 km of other civil aviation aerodrome” is not refuted by the EAP. In terms of the proposed project, the Expansion of the Excelsior Abattoir - Kuruman, there will be no impact on civil aviation, as the project entails the expansion of the existing abattoir. For this reason, it is concluded that a Civil Aviation Assessment is not required for the proposed project. The Civil Aviation Authority has been included in the Interested and Affected Party Register for the project and have been given the opportunity to submit comments on the proposed project.

## MAP OF RELATIVE CIVIL AVIATION THEME SENSITIVITY

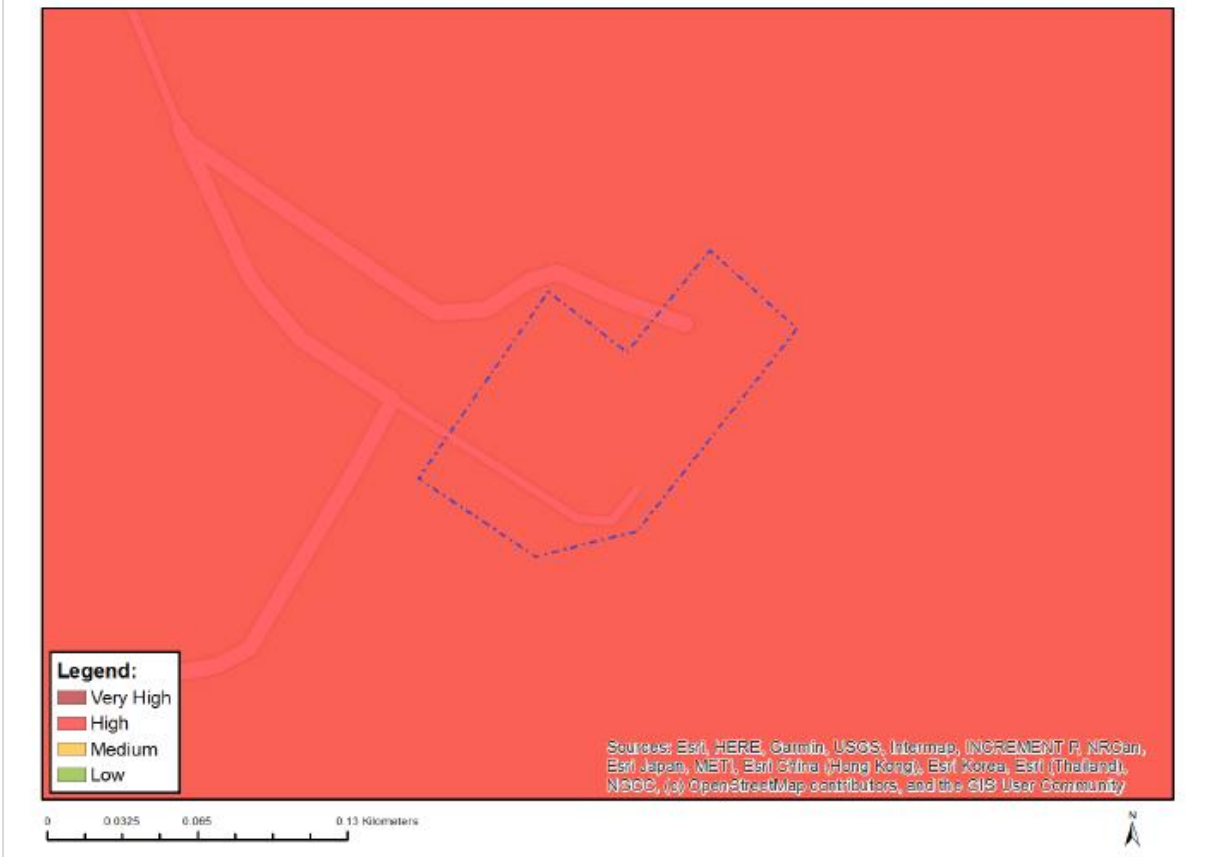


Figure7: Screening Report overlay map of the project site and the Civil Aviation Sensitivity

### Palaeontology Theme (very high sensitivity)

The “very high” sensitivity feature identified in the Screening Report, namely that the site is situated within a “Very High paleontological sensitivity” is not refuted by the EAP. A Palaeontological Desktop Assessment has therefore been compiled and the report has also been uploaded onto the South African Heritage Resources Information System for review by SAHRA in order to obtain their comments.

Foundations are not going to be excavated for the proposed project as they would be building on hard rock. The conclusion of the Palaeontological Desktop Assessment was that there is no objection to the proposed development. The impact significance rating pre- and post-mitigation is both “low” according to the specialist.

## MAP OF RELATIVE PALEONTOLOGY THEME SENSITIVITY



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

### Terrestrial Biodiversity Theme (very high sensitivity) Compliance Statement

The site is in a completely transformed state and there are no natural habitats or any vegetation present. This is confirmed by the site photographs (evidence) provided under Section 4.2.3 below. The sensitivity feature identified in the Screening Report for a portion of the project site, namely the presence of a Critical Biodiversity Area 2, is therefore refuted as there is no vegetation present at the project site. The “very high” Terrestrial Biodiversity Theme sensitivity, as stated in the Screening Report, should rather be “low”. The “low” Terrestrial Biodiversity Theme sensitivity for the other portion of the site, as stated in the Screening Report, is confirmed by the EAP. It is concluded that a Terrestrial Biodiversity Impact Assessment is not required for the proposed project.

## MAP OF RELATIVE TERRESTRIAL BIODIVERSITY THEME SENSITIVITY

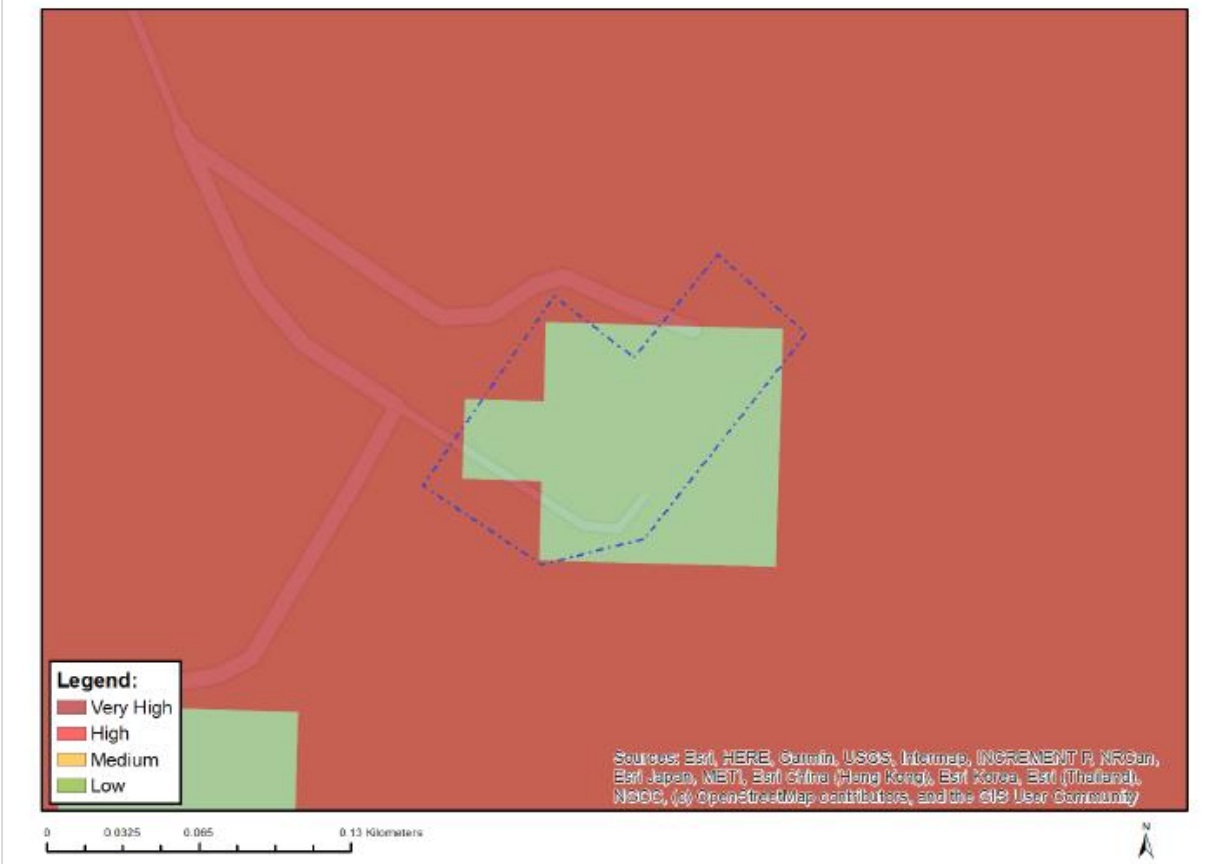


Figure 9: Screening Report overlay map of the project site and the Terrestrial Biodiversity Sensitivity

4.2.3 Site Photographs (evidence) – areas show the proposed expansion areas on site



## 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 (Pr.Sci.Nat.)  
Environmental Assessment Practitioner  
SACNASP Reg. No. 115453  
EAPASA Reg No. 2019/767

2023-06-15

Date

# CV OF ENVIRONMENTAL ASSESSMENT PRACTITIONER

# Curriculum Vitae

## Lizette Kloppers

### PERSONAL DETAILS

<b>Full Names</b>	Lizette Kloppers
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<b>Date of Birth</b>	1 December 1987
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<b>Marital Status</b>	Married
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<b>Home language</b>	Afrikaans (Speak, read and write)
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<b>Other languages</b>	English (Speak, read and write)
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<b>Nationality</b>	South African
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<b>Gender</b>	Female
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<b>Contact Details</b>	E-MAIL: lizette@earthnsky.co.za CELL: 061 524 2211
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<b>Professional Registrations / Certifications</b>	EAPASA: 2019/767 SACNASP: 115453 IEMA Certified Carbon Footprint Analyst
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<b>Professional experience</b>	Lizette has more than 12 year's experience in the field of Environmental Management, including various Environmental Authorisation applications (Basic Environmental Impact Assessments, full Scoping and Environmental Impact Assessments, Waste Management Licence applications and Section 24G Rectification applications) and Environmental Legal Compliance Audits. Clients include some of the leading agricultural and industrial companies in South Africa, such as AFGRI Operations Limited, BiC, Mpact, the University of Pretoria and DMS Powders.
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## 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.

Previous employment:

- 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.
- Shangani Management Services – Senior Environmental Consultant – 3 May 2011 – 7 April 2016.

## REFERENCES

Name	Organisation/Institution
1. Ruzelle Myburgh	DMS Powders
2. Ilze Euckermann	University of Pretoria
3. Cara Terblanche	SFP Townplanning
4. Tania van Staden	ARISCU
5. Patricia van der Walt	TIKOTECH
6. Charlotte Maphaha	Southern Proteins

Contact details will be provided upon request.