

Terrestrial Animal Site Sensitivity Verification Report and Compliance Statement

**Proposed expansion of the Aqunion (Pty) Ltd Abalone Farm,
Romansbaai Farm Portion 2 of Klipfontein Farm no 711, Gansbaai.**

Prepared for: LORNAY ENVIRONMENTAL CONSULTING

December 2024

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Declaration of independence

- ❖ We consider ourselves bound to the rules and ethics of the South African Council for Natural Scientific Professions (SACNASP);
- ❖ At the time of conducting the study and compiling this report, we did not have any interest, hidden or otherwise, in the proposed development that this study has reference to, except for financial compensation for work done in a professional capacity;
- ❖ Work performed for this study was done objectively. Even if this study results in views and findings that are not favourable to the client/applicant, I will not be affected in any manner by the outcome of any environmental process of which this report may form a part, other than being members of the general public;
- ❖ We declare that no circumstances may compromise my objectivity in performing this specialist investigation. We do not necessarily object to or endorse any proposed developments but aim to present facts, findings and recommendations based on relevant professional experience and scientific data;
- ❖ We do not have any influence over decisions made by the governing authorities;
- ❖ We undertake to disclose all material information in my possession that reasonably has or may have the potential of influencing any decision to be taken concerning the application by a competent authority to such a relevant authority and the applicant;
- ❖ We have the necessary qualifications and guidance from professional experts in conducting specialist reports relevant to this application, including knowledge of the applicable Act, regulations and any guidelines that have relevance to the proposed activity;
- ❖ This document and all information contained herein is and will remain our intellectual property. This document, in its entirety or any portion thereof, may not be altered in any manner or form for any purpose without the specific and written consent of the specialist investigators.
- ❖ All the particulars we furnished in this document are true and correct.



Signature

17 December 2024

Date

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Introduction

This report is a Site Sensitivity report and Terrestrial Animal Species Compliance Statement dealing with potential impacts on faunal species of the proposed expansion of the Aquunion (Pty) Ltd Abalone Farm, Romansbaai Farm Portion 2 of Klipfontein Farm no 711, Gansbaai. (Figure 1). The Department of Forestry, Fisheries and the Environment (DFFE) screening report (performed in November 2023) identified the site as having a 'High' Animal Species Theme sensitivity (Lornay Environmental Consulting 2023)(Figure 2). A high sensitivity requires the submission of a Site Sensitivity report and Terrestrial Animal Species Compliance Statement. This Compliance Statement, as per the protocol set out by the DFFE (2020) reports on a site visit to the area that will be impacted by the development (the study area), during which the presence or possible presence of the Species of Conservation Concern (SCC) identified by the screening tool was determined. Animal species of concern ($n=7$) that was identified by the screening tool are listed in Table 1.



Figure 1: The cadastral boundary of the property (outlined in black) investigated during the site visit.

Table 1: Animal species of concern identified by the screening report (Lornay Environmental Consulting 2023). Two additional species were flagged by CapeNature for investigation.

Sensitivity	Species name	Common name	Order	Red List Status
High	<i>Circus ranivorus</i>	Marsh harrier	Avis	EN
High	<i>Circus maurus</i>	Black harrier	Avis	EN
Medium	<i>Afrotis afra</i>	Southern Black Korhaan	Avis	VU
Medium	<i>Neotis denhami</i>	Denham's Bustard	Avis	VU
Medium	<i>Bitis armata</i>	Southern Adder	Reptile	VU
Medium	<i>Brinckiella aptera</i>	Mute Winter Katydid	Invertebrate	VU
Medium	<i>Aneuryphymus montanus</i>	Yellow winged agile grasshopper	Invertebrate	VU

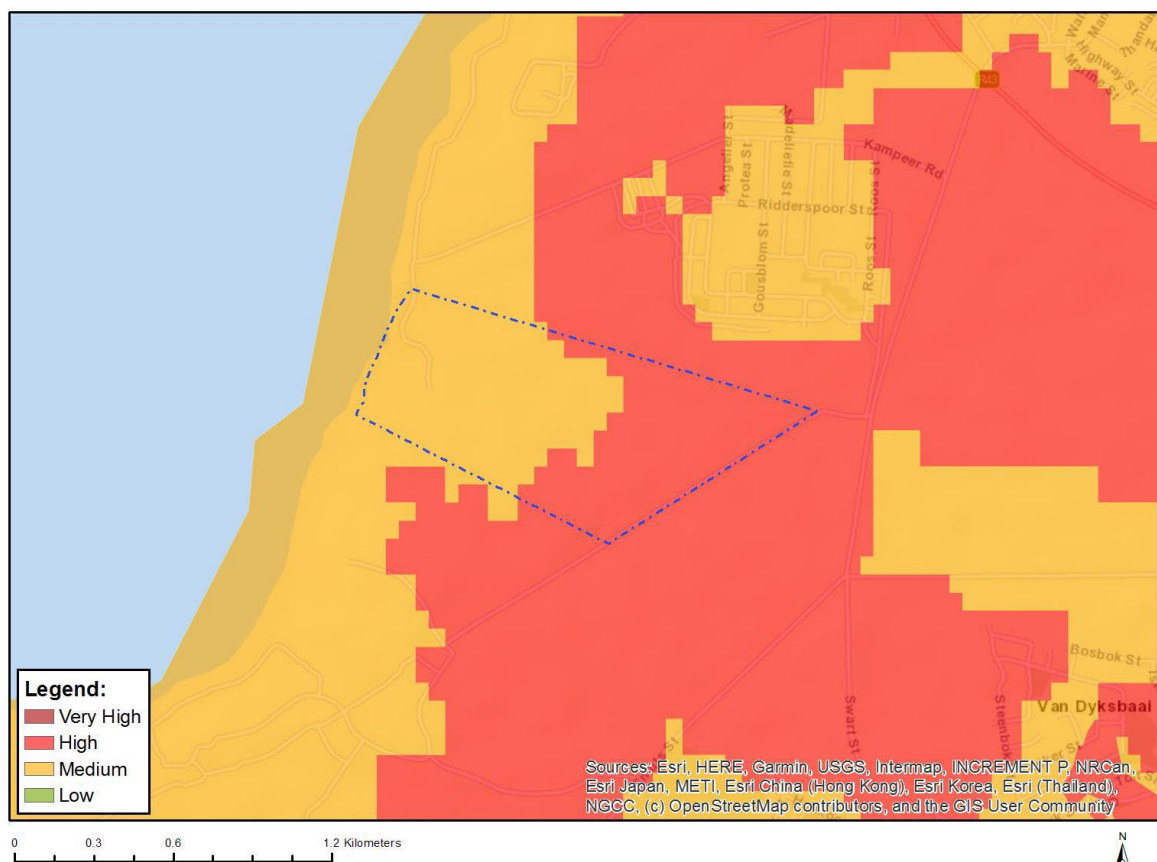


Figure 2: Map of the relative animal species theme sensitivity as per (Lornay Environmental Consulting 2023)

This report follows the legislative requirements set out by the National Environmental Management Act 107 of 1998 and specifically the regulations listed in the Government Gazette Notice No. 1150, Protocol for the specialist assessment and minimum report content requirements for environmental impacts on terrestrial animal species, October 2020.

Study Area

Aqunion (Pty) Ltd Abalone Farm, Romansbaai Farm Portion 2 of Klipfontein Farm no 711 is situated just south of the town Gansbaai in the Western Cape Province (E 19°20'29"; S

34°36'10") (Figure 1). The majority $\pm 50\%$ of the property consist of Overberg Dune Strandveld Fynbos (Helme 2024, SANBI 2024) with the rest comprising of developed abalone farm infrastructure.

My overall impression during the site visit was that the natural vegetation on the property is in a general natural state, providing habitat for a variety of animal species, with a proportion that is transformed for grazing for zebra and bontebok which occurs on the property. The alien plants are well under control.

The proposed new development at Aquinion (Pty) Ltd Abalone Farm comprises the development of the following (Figure 3 & 4):

- Phase 1 and 2 abalone rearing facilities
- A new sea-water reservoir
- Expansion of the pumphouse and pipeline (4 additional pipelines) leading to the new sea-water reservoir
- A solar array 4 MW

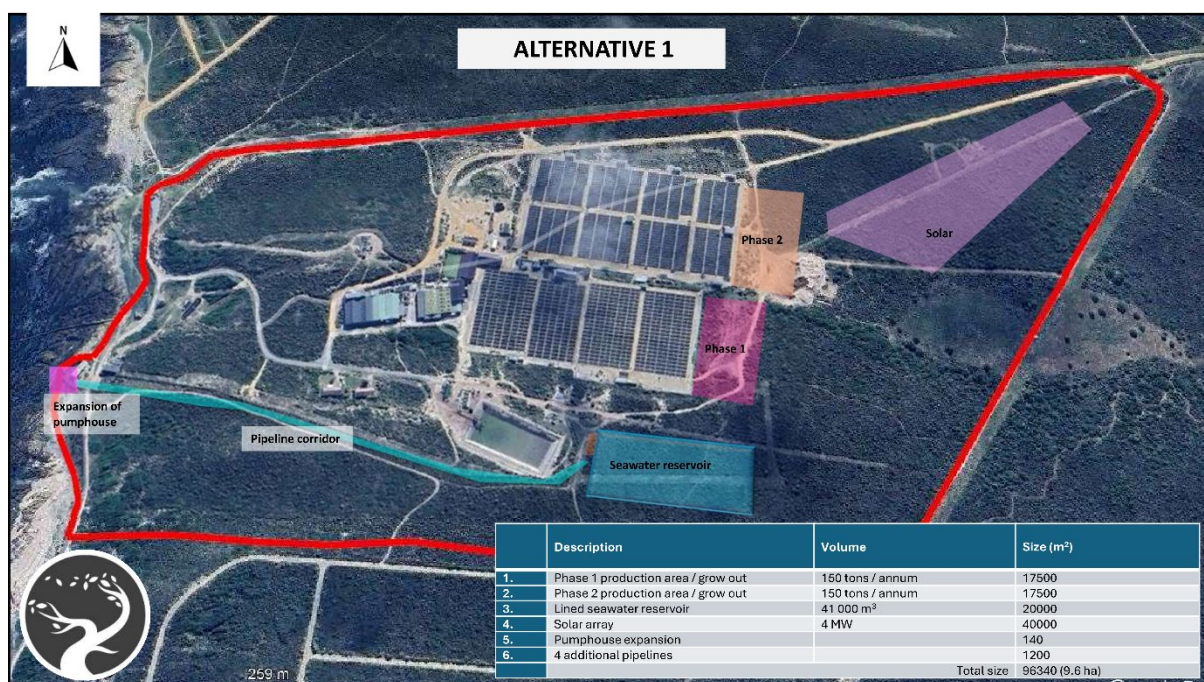


Figure 3: Alternative 1 of the proposed new development at Aquinion (Pty) Ltd Abalone Farm.

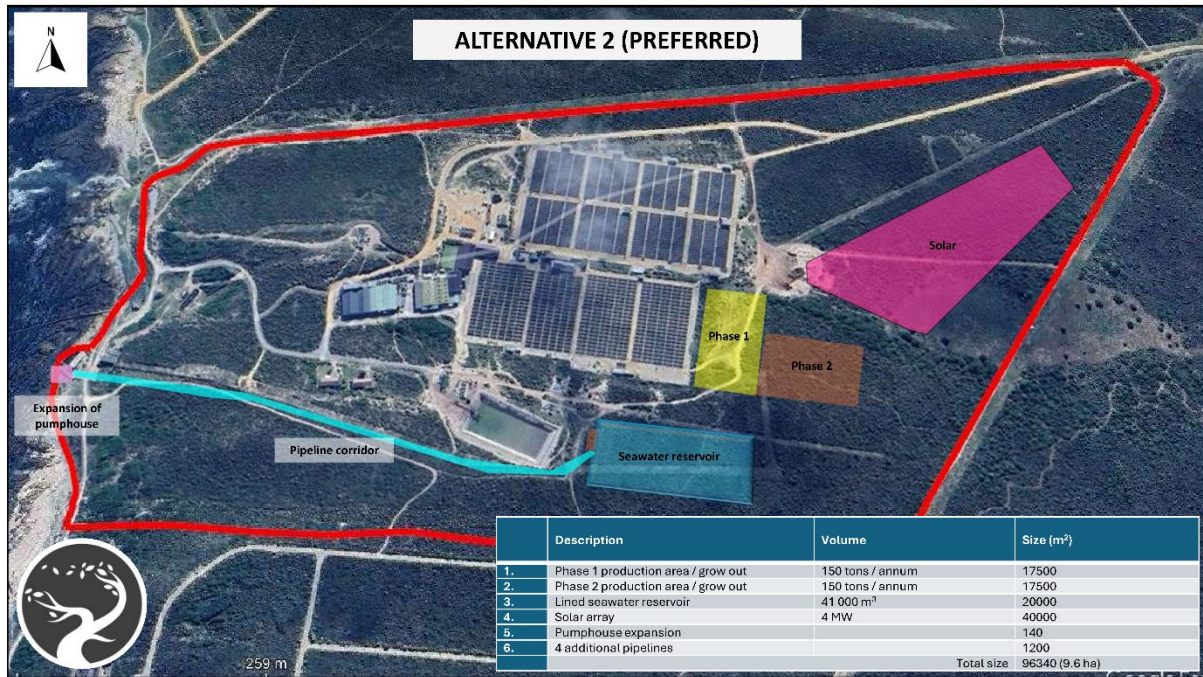


Figure 4: Alternative 2 of the proposed new development at Aquinion (Pty) Ltd Abalone Farm.

Methods

We followed the prescribed protocol for performing a Terrestrial Animal Site Sensitivity Verification Report according to the Government Gazette Notice 320 (Government Gazette 43110, 20 March 2020), and amended in Government Gazette Notice 3717 (Government Gazette 49028, 28 July 2023). We followed the SANBI (2020) species environmental assessment guidelines during the assessment.

This report's findings are based on:

- ❖ A desktop study to determine the presence of animal species of concern (as listed in Table 1) and other species at the study area; and
- ❖ 1 x Field site visit.

The desktop study included the use of iNaturalist and Global Biodiversity Information Framework (GBIF) records as well as reports, field guides and scientific literature. These records were used to determine the species recorded in the area and the presence of potential SCC, with particular emphasis on the SCC listed by the screening tool.

A site visit was performed on the 7th of December 2024, where a diurnal (between 8h00 and 12h00) surveys was performed. During the site survey, species and signs of presence (sounds, tracks, scats etc), observed were recorded. Surveys consisted of meandering visual, acoustic surveys and point surveys performed at and between the various proposed development sites. Access to all the development areas were easily accessible and we covered a large proportion of the property on foot (Figure 5 and Table 2). The main purpose of the site visit was to confirm whether:

- ❖ any of the listed SCC were present in the proposed development area;

- ❖ whether the vegetation at the proposed development site likely supports undetected individuals or populations of the SCC highlighted by the screening tool; and
- ❖ there are any SCC present at the site that were not highlighted by the initial screening.

To aid in record-keeping of the site and species observed, photographs were taken during the site visits (Figure 6).

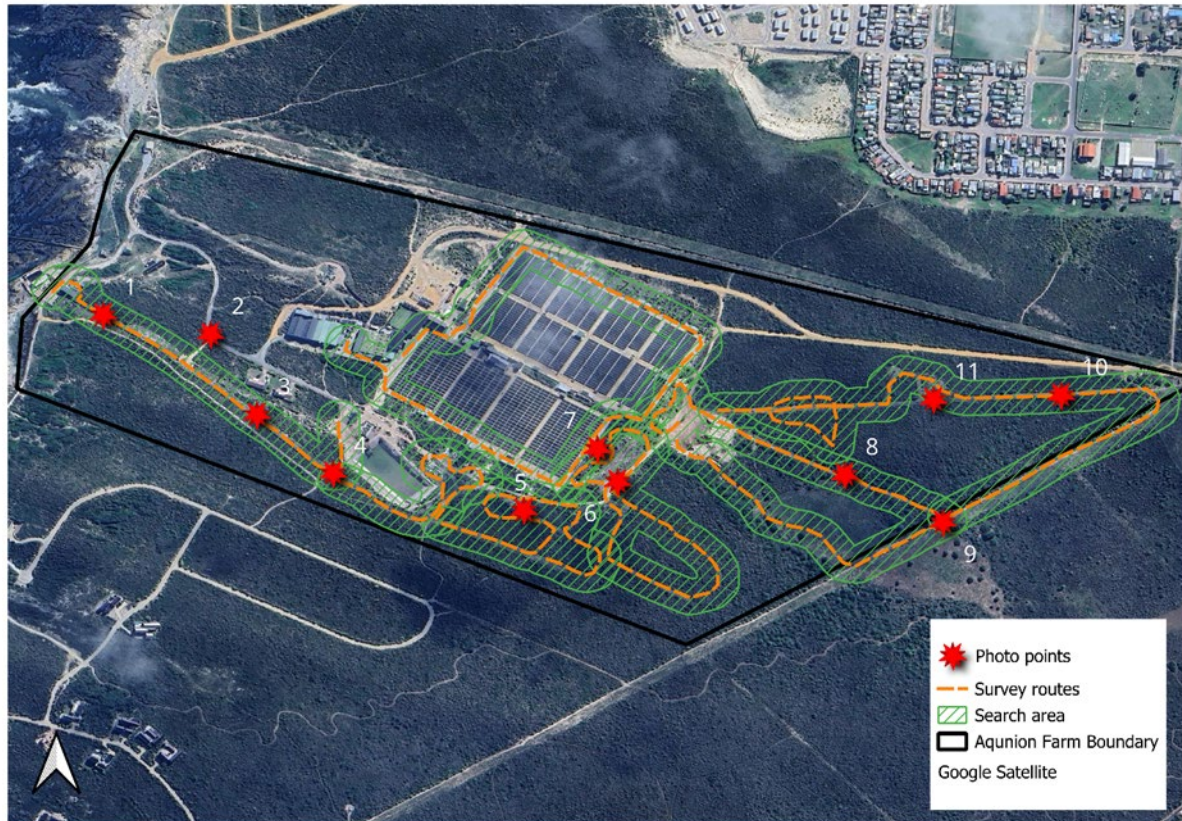


Figure 5: A map indicating the areas within the property visited during the site visit. Brown lines indicate routes travelled and yellow polygons areas where intensive searching was done on foot.

Table 2: Photo point site coordinates

Photo Site	Coordinates
1	34°36'04"S; 19°20'01"E
2	34°36'06"S; 19°20'07"E
3	34°36'09"S; 19°20'08"E
4	34°36'12"S; 19°20'12"E
5	34°36'13"S; 19°20'19"E
6	34°36'12"S; 19°20'25"E
7	34°36'11"S; 19°20'25"E
8	34°36'13"S; 19°20'37"E
9	34°36'14"S; 19°20'41"E
10	34°36'08"S; 19°20'46"E
11	34°36'08"S; 19°20'40"E

Setting the project area of influence (PAOI)

The development property is fairly small (± 50 ha). The PAOI was set considering main SCC we think are present on or close to the development footprint. This was based on recommended buffers for SCC (SANBI 2020) and WCDS expert knowledge.

Conditions, limitations, and assumptions

The findings and recommendations of this report are based on WCDS best scientific and professional knowledge, literature and other data sources. WCDS reserve the right to modify aspects of the report, including the recommendations and conclusions, if additional relevant information becomes available.

The conditions, e.g. weather and otherwise, during the assessment period could have a significant influence determining whether animal species will be found on site or not. An animal species absence during field assessments does not necessarily mean it is not present at assessment locations. At WCDS we use an evidence-based approach to provide the best possible assessment of species presence and potential impacts.

Results

Field survey conditions

A site visit was performed on the 7th of December 2024, (between 8h00 and 12h00) Conditions were warm with little wind which were ideal for faunal surveys.

Project area of influence (PAOI)

The development property is fairly small (± 50 ha). The PAOI covers the majority of the property as well as a reasonably large proportion outside of the property (Figure 7 and Table 3).

Table 3: The PAOI was set considering main SCC we think are present on or close to the development footprint.

Species/Group	PAOI Buffer size	Notes
Raptors and Birds general	300 m	Foraging and resting areas
Waterbirds	300 m	Foraging and resting areas
Nocturnal insects	250 m	Influence of artificial light
Diurnal insects and herpetofauna	100 m	Foraging and breeding habitat

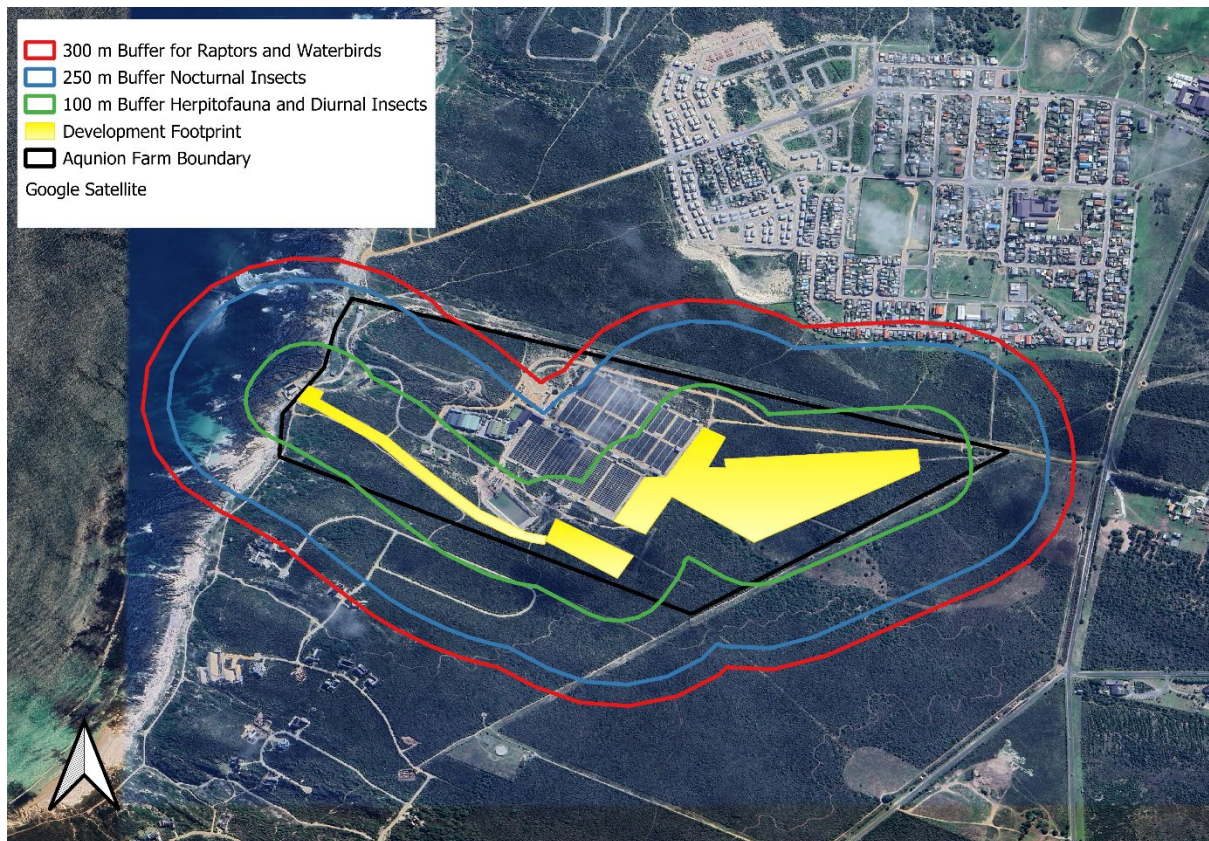


Figure 6: The PAOI was set considering main SCC we think are present on or close to the development footprint.

Habitat descriptions.

After screening the development site using Google Earth images and on-site verification, we did intensive searches in the PAOI of the proposed development site (Figure 6). Three broad habitat types were identified e.g. natural fynbos, short disturbed fynbos 'pasture', and built up areas.

Natural fynbos (Photo sites 1,2,3,4,5,6,7,8,10 &11)

Natural Overberg Dune Strandveld in relatively good condition (Figure 5). Some areas associated with roads and farm infrastructure are degraded. Vegetation areas of high sensitivity based on the (Helme 2024) report. This habitat type could be considered ideal habitat for faunal species as its condition is relatively good.

Short disturbed fynbos 'pasture' (Photo site 9)

Degraded Overberg Dune Strandveld which seems to have been converted into pasture for utilisation of the Burchell zebra and bontebok that are present on the site (Figure 6). This created open habitat with the presence of forbs and grasses not commonly associated with the surrounding natural vegetation. This habitat only covers about 2 ha of the property.

Built up areas (Photo site 7)

This is habitat that are covered in infrastructure (buildings, roads, fences, abalone rearing ponds etc) associated with the abalone farming activities (Figure 7). These areas are kept clean of vegetation and pest control takes place.

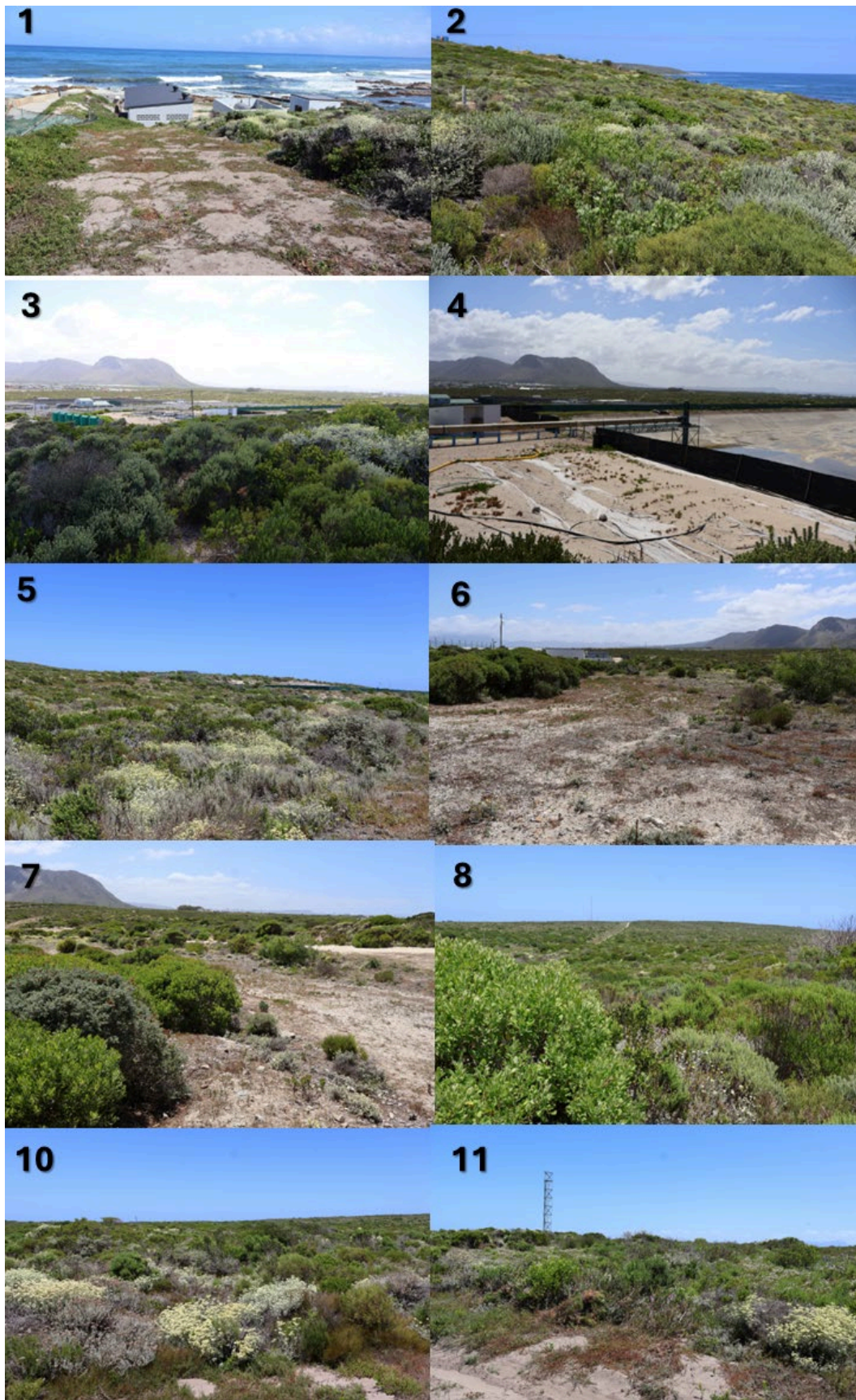


Figure 6: The Overberg Dune Strandveld habitats in relatively good condition (see Figure 5 and Table 2 for site localities).

Table 4: Animal species observed during the field site visit

Common name	Scientific name	Status	Built up areas	Disturbed Fynbos	Natural fynbos
Birds					
African Pipit	<i>Anthus cinnamomeus</i>	LC	X		
Bokmakierie	<i>Telophorus zeylonus</i>	LC			
Cape Bulbul	<i>Pycnonotus capensis</i>	LC	X		
Cape Robin-Chat	<i>Cossypha caffra</i>	LC			X
Cape Sparrow	<i>Passer melanurus</i>	LC	X		
Cape Spurfowl	<i>Pternistis capensis</i>	LC	x	X	X
Cape Wagtail	<i>Motacilla capensis</i>	LC	X		
Cape Weaver	<i>Ploceus capensis</i>	LC	X		
Cape White-eye	<i>Zosterops virens</i>	LC	X		
Common Starling	<i>Sturnus vulgaris</i>	LC	X		X
Cape Turtle Dove	<i>Streptopelia capicola</i>	LC			X
Familiar Chat	<i>Oenanthe familiaris</i>	LC			X
	<i>Chroicocephalus</i>	LC			
Grey-headed Gull	<i>cirrocephalus</i>		X		
Karoo Prinia	<i>Prinia maculosa</i>	LC			X
Pearl-breasted Swallow	<i>Hirundo dimidiata</i>	LC	X		
Pied Crow	<i>Corvus albus</i>	LC			X
Southern Fiscal	<i>Lanius collaris</i>	LC			X
Speckled Mousebird	<i>Colius striatus</i>	LC			X
Speckled Pigeon	<i>Columba guinea</i>	LC	X		
Spotted Thick-knee	<i>Burhinus capensis</i>	LC		X	X
Three-banded Plover	<i>Charadrius tricollaris</i>	LC	X		
Zitting Cisticola	<i>Cisticola juncidis</i>	LC			X
Reptiles					
Angulate tortoise	<i>Chersina angulata</i>	LC			X
Mammals					
Cape grysbok	<i>Raphicerus melanotis</i>	LC		X	X
Bontebok	<i>Damaliscus pygargus</i>	VU		X	
Burchell's zebra	<i>Equus quagga burchellii</i>	LC		X	X
Large grey mongoose	<i>Herpestes ichneumon</i>	LC			X
Vlei rat	<i>Otomys irroratus</i>	LC	X		
Cape dune molerat	<i>Bathergus suillus</i>	LC		X	X
Invertebrates					
Common opal	<i>Chrysoritis thysbe</i>	LC			X
Grasshopper	<i>Euloryma</i> sp. 1	N/A			X
Garden Locust	<i>Acanthacris ruficornis</i>	LC	X	X	X
	<i>Crematogaster</i>				
Black Cocktail ant	<i>peringueyi</i>	LC			X



Figure 6: Degraded Overberg Dune Strandveld which seems to have been converted into pasture for utilisation of the Burchell zebra and bontebok that are present on the site (Photo site 9).



Figure 7: This is habitat that are covered in infrastructure (buildings, roads, fences, abalone rearing ponds etc) associated with the abalone farming activities (Photo site 7).

Animal species of concern

A total of seven animal species of concern was identified by the screening tool (Lornay Environmental Consulting 2023)(Table 2). One additional species, Cape dwarf chameleon, *Bradypodion pumilum*, was identified and added during the desktop study. The following section deals with the site's potential importance for these species and the probability of them being present in habitats in the development area.

Black harrier *Circus maurus*

Black Harrier *Circus maurus* is a rare endangered, southern African endemic that may have lost more than 50% of its breeding habitat as a result of extensive land transformation by agriculture, invasive alien vegetation and urbanization in the Fynbos biome (Curtis et al. 2004, Taylor 2015a). The species' typical breeding habitat is Fynbos, particularly Strandveld and Mountain Fynbos. In fragmented Renosterveld habitat it is only found in high-quality, larger sized patches (Curtis et al. 2004). Foraging habitat includes montane areas, lower altitude Karoo scrub, semi-desert, floodplains and croplands (Curtis et al. 2004). Small mammals and birds (especially quail) are their main diet preference (Curtis et al. 2004). Both GBIF and iNaturalist data sets indicates sufficient records of this species in the general region of the property. There is therefore a reasonable likelihood that the species would frequent the property for foraging purposes. We did not observe the species during our field visit. The development will result in an irreplaceable loss of forage habitat for this species. **The species range widely, and the minor loss of forage habitat could be tolerated. The development site does not significantly influence potential breeding sites. The Black harrier *Circus maurus*, will therefore be negatively affected by loss of forage habitat but the development footprint is small. The proposed development and potential impact are therefore classified as 'low'.**

African marsh harrier *Circus ranivorus*

This species occurs along large water bodies and adjacent open vegetation (Simmons 2005). The species is classified as Endangered in South Africa (Taylor 2015b), with habitat loss and degradation being the most significant threat to the continued survival of this species. There is a paucity of records in the GBIF and iNaturalist data sets for this species. The habitat is not suitable and the likelihood that the species would frequent the property very low. We did not observe the species during our field visit. **The development site does not contain suitable habitat. The African marsh harrier *Circus ranivorus*, will therefore not likely be significantly impacted by the proposed development and potential impact are therefore classified as 'very low'.**

Southern black korhaan *Afrotis afra*

Southern Black Korhaan *Afrotis afra* is classified as 'Vulnerable' and is a South African endemic (Evans 2023). The species distribution range is restricted to the western area of the Northern Cape Province and to the area south of the Great Escarpment in the Western Cape, and the western section of the Eastern Cape Province (Evans 2023). Most iNaturalist and GBIF records indicates several records in the open plain Renosterveld areas of the Overberg >60 km east of the property. **We did not observe the species during our field visit and do not consider the habitat to be suitable. The impact of the development on Southern Black Korhaan *Afrotis afra* by the proposed development is therefore considered to be 'very low'.**

Denham's bustard *Neotis denhami*

Denham's bustard occurs in natural vegetation (fynbos and grasslands), pastures and agricultural fields (Allan 2005). The species is classified as 'Vulnerable' (Taylor 2015c), mainly due to powerline collisions (Shaw et al. 2010), habitat conversion to intensive monoculture fields, and overgrazing of grassland habitats. Most iNaturalist and GBIF records indicates several records to the east of the property but more in the open plain areas of the Overberg where they frequent the more open agricultural fields. We did not observe the species during our field visit. **The habitat in the development site is not suitable for the species. The impact of the development on Denham's bustard, *Neotis denhami*, by the proposed development is therefore considered to be 'very low'.**

Southern Adder *Bitis armata*

The Southern Adder *Bitis armata* is classified as 'Vulnerable' because of its severely fragmented distribution due to the reduction in the extent and quality of its habitat (Maritz and Turner 2023). This species has a small distribution in the southwest coastal margin of the Western Cape with three disjunct subpopulations, one from West Coast National Park to just north of Cape Town, the second near Hermanus and the third near De Hoop Nature reserve (Maritz and Turner 2023). The species occurs mainly in coastal lowland Fynbos on sandy and rocky substrates (Phelps 2010). It is known to shelter under rock slabs between dense shrubs on coastal plains (Phelps 2010). iNaturalist and GBIF records for this species is concentrated between Stanford and Struisbaai with the closest 12 km away to the north-east of this property. We did not observe the species during our field visit. **We consider the habitat to be only marginally suitable habitat for this species because of a lack of any rocky substrate. There is a low likelihood that this species would occur at the site. The impact of the development on Southern Adder *Bitis armata*, by the proposed development will therefore likely be 'low'.**

Cape dwarf chameleon, *Bradypodion pumilum*

Although the Cape dwarf chameleon, *Bradypodion pumilum* are not listed as an SCC in the screening report we include it here because it is confirmed present in the immediate vicinity of the development site. The Cape dwarf chameleon is listed as 'Near threatened' due to its moderate sized distribution and the continued decline of quality and extent of habitat in their distribution range (Tolley et al. 2023). The subpopulations in urban areas are fragmented and in decline (Tolley 2023). The species distribution range from the south-western parts of Cape Town to the Agulhas plain (Tolley and Burger 2004). The species occurs in a variety of vegetation types including Fynbos, Forested Riparian Vegetation and some exotic and indigenous trees and shows some tolerance to peri-urban gardens and greenbelts (Tolley 2023). Several iNaturalist and GBIF records indicates the presence of the species close to, and therefore likely within the development site. We did not observe the species during our field visit. **We do consider the habitat (breeding and foraging) at this site to be suitable for this species. It is likely that some of their habitat will be lost permanently and the disturbance during construction phase will have a negative impact. The adjacent land, that will remain undeveloped, do however provide adequate space for this species to escape and persist. The potential impact on Cape dwarf chameleon, *Bradypodion pumilum* is classified as 'low'.**

Mute Winter Katydid *Brinckiella aptera*

This endemic, flightless katydid species occurs in the succulent Karoo and fynbos biomes of the Western Cape. It is listed as vulnerable (B1) on the IUCN Red List Category (Naskrecki and Bazelet 2009). It has been found at four locations only, including Bredasdorp, Pearly Beach and Tulbagh. It can expectantly be found across the Western Cape province in succulent Karoo (re: into southern Namaqualand) and fynbos habitats, although declining due to habitat loss (Naskrecki & Bazelet 2009). Its host plant data is absent, but predictably feeds on flowers and leaves of a narrow range of host plants, occurring on low-growing, herbaceous shrubs (Naskrecki & Bazelet 2009). The estimated extent of occurrence is ca. 12 500 square kilometres (Naskrecki & Bazelet 2009). They are a nocturnal species, and thus sensitive to light disturbance, such as artificial lights associated with development. During the daytime, they can be found basking in the sun. Their peak emergence time is from August to October. No specimens were seen during a field visit. **The proposed developments are classified as ‘low’ impact on *B. aptera*, due to 1) an absence of species data from this area, 2) no host plant records being available to link present vegetation to possible insect species occurrence, 3) no direct evidence of occurrence, 4) the limited size of the development relative to the surrounding vegetation and the species’ regional occurrence and 5) the intactness of large areas of the type of vegetation that will remain unaffected by the developments (i.e., permitting movement through the landscape).**

Yellow-winged Agile Grasshopper *Aneuryphymus montanus*

This endemic grasshopper species occurs on Western and Eastern Cape mountains. It is listed as vulnerable (B2) on the IUCN Red List Category. It has been recorded from near Clanwilliam eastwards towards East London, associated with different fynbos types occurring on south-facing, cool slopes (Brown 1960, Kinvig 2005). Brown (1960) mentions the species being collected “amongst partly burnt stands of evergreen sclerophyll in rocky foothills”. Sites where the species have been documented include Graafwater, close to Lambert’s Bay, De Rust, Suurbraak, Bot River, Kogelberg and Joubertinia. The species seems to show preference for rocky, mountainous areas. Its estimated extent of occurrence is ca. 170 000 square kilometres. No specimens were seen during a field visit. **The proposed developments are classified as ‘low’ impact on *A. montanus*, due to 1) an absence of species data from this area, 2) no host plant records being available to link present vegetation to possible insect species occurrence, 3) no direct evidence of occurrence, 4) the limited size of the development relative to the surrounding vegetation and the species’ regional occurrence, 5) the intactness of large areas of the type of vegetation that will be unaffected by the developments permitting movement through the landscape and 6) the wide extent of occupancy of *A. montanus*.**

Terrestrial animal compliance statement

The DFFE screening tool identified the study area as having a ‘High’ sensitivity for the animal species theme, due to the potential presence of nine species of conservation concern. Based on my desktop assessment and evidence from the site visit the site sensitivity should be considered ‘Low’ because:

- i. *Circus maurus* range widely, and the minor loss of forage habitat could be tolerated. The development site does not significantly influence potential breeding sites. The Black harrier *Circus maurus*, will therefore be negatively affected by loss of forage habitat. The proposed development and potential impact are therefore classified as **‘low’**.
- ii. The development site does not contain suitable habitat. The African marsh harrier *Circus ranivorus*, will therefore not likely be significantly impacted by the proposed development and potential impact are therefore classified as **‘very low’**.
- iii. We did not observe *Afrotis afra* during our field visit and do not consider the habitat to be suitable. The impact of the development on Southern Black Korhaan *Afrotis afra* by the proposed development is therefore considered to be **‘very low’**.
- iv. The habitat in the development site is not suitable for *Neotis denhami*. The impact of the development on Denham’s bustard, *Neotis denhami*, by the proposed development is therefore considered to be **‘very low’**.
- v. We consider the habitat to be only marginally suitable habitat for *Bitis armata* because of a lack of any rocky substrate. There is a low likelihood that this species would occur at the site. The impact of the development on Southern Adder *Bitis armata*, by the proposed development will therefore likely be **‘low’**.
- vi. We do consider the habitat (breeding and foraging) at this site to be suitable for *Bradypodion pumilum*. Some of their habitat will be lost permanently and the disturbance during construction phase will have a negative impact. The adjacent land that will remain undeveloped and will provide adequate space for this species to escape and persist. The potential impact on Cape dwarf chameleon, *Bradypodion pumilum* is classified as **‘low’**.
- vii. The proposed developments are classified as **‘low’** impact on *B. aptera*, due to 1) an absence of species data from this area, 2) no host plant records being available to link present vegetation to possible insect species occurrence, 3) no direct evidence of occurrence, 4) the limited size of the development relative to the surrounding vegetation and the species’ regional occurrence and 5) the intactness of large areas of the type of vegetation that will remain unaffected by the developments (i.e., permitting movement through the landscape).
- viii. The proposed developments are classified as **‘very low’** impact on *A. montanus*, due to 1) an absence of species data from this area, 2) no host plant records being available to link present vegetation to possible insect species occurrence, 3) no direct evidence of occurrence, 4) the limited size of the development relative to the surrounding vegetation and the species’ regional occurrence, 5) the intactness of large areas of the type of vegetation that will be unaffected by the developments permitting movement through the landscape and 6) the wide extent of occupancy of *A. montanus*.

General recommendations

- 1) Although impacts on all SCC’s in this case are considered either ‘very low’ or ‘low’ we recommend the developer installs all, or parts of the solar infrastructure, on available building roofs (there is large roof space for this still available) to limit clearing natural vegetation for this purpose as much as possible.

- 2) There are two development footprint alternatives proposed for this development. We recommend alternative two as it will disturb the least proportion of natural Overberg Strandveld habitat.

References

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Appendix 1

CV and SACNASP Certificate of Prof JA Venter



Curriculum Vitae






Jan Adriaan Venter



Wildlife
Conservation
Decision
Support



1. Personal information


Full name:	Jan Adriaan Venter	Home address:	8 Steve Landman Crescent, Loeriepark, George, 6529, South Africa
Age:	52	E-mail:	JanVenter@mandela.ac.za
Gender:	Male	Cell number:	+27 (0) 82 41 61096
Nationality:	South African	Telephone nr:	+27 (0) 44 801 5042
Driver's license:	Code EB		
Language:	Afrikaans (1 st), English (2 nd)		
 @JanBuffel	 Conservation@Mandela	 Jan Adriaan Venter	
Web page: Wildlife Ecology Lab			
 Scopus Scopus Google Scholar 			

2. Tertiary qualifications

Degree	Institution	Research theme or modules	Time period
Doctor of Philosophy: Biology	University of Kwazulu-Natal	Intrinsic and extrinsic influences on African large herbivore assemblages and implications for their conservation.	2009 – 2014
Master of Technology: Nature Conservation	Nelson Mandela Metropolitan University	The feeding ecology of buffalo (<i>Syncerus caffer</i>) on Doornkloof Nature Reserve, Northern Cape, South Africa	2002-2006
Baccalaureus of Technology: Nature Conservation	Technikon Port Elizabeth	Plant studies IV; Research methodology; Fresh water management IV; Conservation management I; Principles of management I; Resource management IV	1998-1999
National Diploma: Nature Conservation	Technikon South Africa	Plant studies I, II and III; Animal studies I, II and III; Conservation Ecology I, II and III; Resource Management I, II and III; Conservation Communication I and II	1993-1996

3. Work experience

Institution	Institution details	Job description	Time period
Full time positions:			
	Department of Conservation Management, Faculty of Science, Nelson Mandela University, George Campus, Madiba Drive, George, 6530	<i>Associate Professor</i> <i>Head of Department: Conservation Management</i> <i>Program Coordinator: Nature Conservation and Game Ranch Management</i> <i>Senior Lecturer</i> <i>Lecturer</i>	1 January 2021 – current date 1 January 2021 – 31 December 2023 1 June 2017- 31 December 2020 1 January 2018 – 31 December 2020 1 June 2015- 31 December 2017
	Scientific Section, 6 St Marks Street, Southernwood, East London, South Africa, 5201. Tel: 043 7054400	<i>Specialist Ecologist</i> <i>Area of responsibility:</i> Eastern Cape Provincial Protected areas as well as National Marine Protected Areas <i>Responsible for:</i> Research, monitoring and specialist decision support on biodiversity conservation, protected area expansion and wildlife management. Manager of the Marine Scientific Unit (1 x Marine ecologist and 1 x Marine Technician) <i>Ecologist</i> <i>Area of responsibility:</i> Wild Coast (Mkambati, Silaka, Hluleka & Dwesa-Cwebe, East London Coast Nature Reserves; Pondoland, Hluleka & Dwesa-Cwebe Marine Protected Areas) also Baviaanskloof Mega Reserve <i>Responsible for:</i> Facilitating and conducting research, biological monitoring as well as decision support to conservation management	1 November 2011 – 31 May 2015 1 st March 2006 – 31 October 2011
	School of Agricultural and Environmental Sciences, University of Limpopo, Private Bag X1106, Sovenga, 0727.	<i>Senior Technician</i> <i>Area of responsibility:</i> Aquaculture Research Unit <i>Responsible for:</i> Technical and research support for the research unit	1 st May 2004 – 28 th February 2006

 Department: Environmental Affairs and Nature Conservation	Doornkloof Nature Reserve, PO Box 94, Colesberg, 9795	<i>Protected Area Manager</i> <i>Area of responsibility:</i> Doornkloof Nature Reserve <i>Responsible for:</i> General, conservation and wildlife management of the nature reserve	1 st September 1998 – 28 th April 2004
	Namakwa District Office, Private Bag X6, Calvinia, 8190	<i>District Nature Conservation Officer</i> <i>Area of responsibility:</i> Namakwa-Hantam District <i>Responsible for:</i> Law enforcement, environmental education, conservation advice and community liaison	6 th January 1997 – 30 th August 1998
Part-time/Contract positions: University of Pretoria	Centre for Wildlife Management, University of Pretoria, Pretoria, 0002	<i>Technician</i> <i>Area of responsibility:</i> Centre for Wildlife Management <i>Responsible for:</i> Technical and research support for the research unit	19 th June 1996 – 31 st December 1996
North-West Parks Board	Pilanesberg National Park, PO Box 1201, Mogwase, 0302	<i>Volunteer</i> <i>Area of responsibility:</i> Pilanesberg National Park <i>Responsible for:</i> Assisted field ecologist with data collection and field work	15 th May 1996 – 17 th June 1996
Cape Nature Conservation	Outeniqua Nature Reserve, Private Bag X6517, George, 6530	<i>Student Nature Conservator</i> <i>Area of responsibility:</i> Outeniqua Nature Reserve <i>Responsible for:</i> Assisted reserve manager with conservation management and field work	15 th May 1995 – 6 th May 1996

4. Ratings & Impacts

Agency	Rating
South African National Research Foundation	C3 (Rating)
Google Scholar	18 (h-index)
Scopus	12 (h-index)

5. Scientific output

Peer reviewed Journal Publications (shading indicates publications by postgraduate students and post-doctoral researchers under my supervision)	
1)	FORTIN, D., BROOKE, C.F., FRITZ, H. & VENTER, J.A. The temporal scale of energy maximization explains allometric variations in movement decisions of large herbivores. <i>Ecosphere</i> . 2024;15:e70101. https://doi.org/10.1002/ecs2.70101
2)	ZELLER ZIGAITIS, W.L., ROBINSON, A.C., VENTER, J.A., SPURIGO, L.T. & HOOG, A., 2024. Protected areas and disparate data: understanding geospatial data synthesis in poaching mitigation, <i>Papers in Applied Geography</i> . https://doi.org/10.1080/23754931.2024.2406470
3)	BERNARD, A., GUERBOIS, C., MOOLMAN, L., DE MORNEY, M.A., VENTER, J.A., FRITZ, H. 2024. Combining local ecological knowledge with camera traps to assess the link between African mammal life-history traits and their occurrence in anthropogenic landscapes. <i>Journal of Applied Ecology</i> . 2024;00: 1–13. https://besjournals.onlinelibrary.wiley.com/doi/full/10.1111/1365-2664.14742
4)	VISAGIE, M., DAVIS, R., VENTER, J.A., HONNIBALL, T. (2024) Using spatial capture-recapture models to estimate spotted hyaena (<i>Crocuta crocuta</i>) population density and assess the influence of sex-specific covariates on space use and detection probability. <i>Conservation Science and Practise</i> . 2024;e13214. https://doi.org/10.1111/csp2.13214
5)	HELM, C., CARR, A., CAWTHRA, H., DE VYNCK, J., LOCKLEY, M., DIXON, M., RUST, R., STEAR, W., THESEN, G., VAN BERKEL, F.,

VENTER, J., 2024. Pleistocene ichnological heritage in national parks on the cape coast: attributes, challenges, and solutions. <i>Koedoe</i> 66(2), a1786. https://doi.org/10.4102/koedoe.v66i2.1786
6) HONIBALL, T., DAVIS, R., NTLOKWANA, L. & VENTER, J.A. (2024) Lion lords and sharing hyaenas: Carnivore guild dynamics around elephant carcasses. <i>Ecology and Evolution</i> 14:e11373. https://doi.org/10.1002/ece3.11373
7) VERMEULEN, M.M., FRITZ, H., STRAUSS, W.M., HETEM, R.S., VENTER, J.A. (2024) Seasonal activity patterns of a Kalahari mammal community: trade-offs between environmental heat load and predation pressure. <i>Ecology and Evolution</i> 14:e11304. https://doi.org/10.1002/ece3.11304
8) BERNARD, A., GUERBOIS, C., VENTER, J.A., FRITZ, H. (2024) Comparing local ecological knowledge with camera trap data to study mammal occurrence in anthropogenic landscapes of the Garden Route Biosphere Reserve. <i>Conservation Science and Practice</i> . https://doi.org/10.1111/csp2.13101
9) HONIBALL, T.-L. & VENTER, J.A. (2024). A record of thanatological type behaviour in spotted hyaenas, <i>Crocuta crocuta</i> (Erxleben, 1777). <i>Tropical Zoology</i> , 37(1-2). https://doi.org/10.4081/tz.2024.136
10) BERNARD, A., FRITZ, H., DUFOUR, A., VENTER, J.A., GUERBOIS, C. (2024) A local ecological knowledge-based assessment of anthropodependence for large mammals in anthropogenic landscapes. <i>Biological Conservation</i> 290:110450 https://doi.org/10.1016/j.biocon.2024.110450
11) DAVIS, R., OVERTON, E., PRUGNOLLE, F., ROUGERON, V., HONIBALL, T., SIEVERT, O. & VENTER, J.A. (2024) Baboons (<i>Papio spp.</i>) as a potentially underreported source of food loss and kleptoparasitism of cheetah (<i>Acinonyx jubatus</i>) kills. <i>Food Webs</i> 38. https://doi.org/10.1016/j.fooweb.2023.e00331
12) CLEMENTS, H. et al (multiple authors) (2024) The bi4Africa dataset of faunal and floral population intactness estimates across Africa's major land uses. <i>Scientific Data</i> 11:191 https://doi.org/10.1038/s41597-023-02832-6
13) NICVERT, L., DONNET, S., KEITH, M., PEEL, M., SOMERS, M.J., SWANEPOEL, L.H., VENTER, J.A., FRITZ, H., DRAY, S. (2024) Using the multivariate Hawkes process to study interactions between multiple species from camera trap data. <i>Ecology</i> (In press)
14) DAYA, J., FRITZ, H., VENTER, J.A. (2024) Diet preference of black rhinoceros (<i>Diceros bicornis</i>) at Welgevonden Game Reserve across different seasons. <i>African Journal of Range and Forage Science</i> (In press)
15) HELM, C.W., BATEMAN, M.D., CARR, A.S., CAWTHRA, H.C., DE VYNCK, J.C., DIXON, M.G., LOCKLEY, M.G., STEAR, W. & VENTER, J.A. (2023) Pleistocene fossil snake traces on South Africa's Cape south coast, <i>Ichnos</i> , 30(2): 98-114. https://doi.org/10.1080/10420940.2023.2250062
16) STRYDOM, Z., GREMILLET, D., FRITZ, H., VENTER, J.A., COLLET, J., KATO, A., PICHEGRU, L. (2023). Age and sex-specific foraging movements and energetics in an endangered monomorphic seabird. <i>Marine Biology</i> 138 https://link.springer.com/article/10.1007/s00227-023-04288-z
17) SMITH, K., VENTER, J. A., PEEL, M., KEITH, M., & SOMERS, M. J. (2023). Temporal partitioning and the potential for avoidance behaviour within South African carnivore communities. <i>Ecology and Evolution</i> , 13, e10380. https://doi.org/10.1002/ece3.10380
18) BROOKE, C.F., MAREAN, C., WREN, S.B., FAHEY, P., VENTER, J.A. (2023) Drivers of large mammal distribution: an overview and modelling approach for palaeoecological reconstructions of extinct ecosystems. <i>Biological Journal of the Linnean Society</i> . https://doi.org/10.1093/biolinnean/blad100
19) BALL, I.A., MARNEWECK, D.G., ELLIOT, N.B., GOPALASWAMY, A.M., FRITZ, H., VENTER, J.A. (2023) Considerations on effort, precision and accuracy for long term monitoring of African lions (<i>Panthera leo</i>), when using Bayesian spatial explicit capture-recapture models, in fenced protected areas. <i>Ecology & Evolution</i> 13, e10291. https://doi.org/10.1002/ece3.10291
20) MARNEWICK, K., SOMERS, M.J., VENTER, J.A., KERLEY, G.I.H. (2023) Are we sinking African cheetahs in India? <i>S Afr J Sci.</i> 2023;119(7/8), Art. #15617. https://doi.org/10.17159/sajs.2023/15617
21) BERNARD, A., MOOLMAN, L., DE MORNEY, M.A., GUERBOIS, C., VENTER, J.A., FRITZ, H. (2023) Height related detection biases in camera trap surveys: Insights for combining data from various sources. <i>Koedoe</i> . 65(1), a1734. https://doi.org/10.4102/koedoe.v65i1.1734
22) HELM, C.W., CARR, S.C., CAWTHRA, H.C., DE VYNCK, J.C., DIXON, M.G., GRÄBE, P., THESEN, H.H. VENTER, J.A. (2023) Tracking the extinct giant Cape Zebra on the south Coast of South Africa. <i>Quaternary Research</i> 1-13. https://doi.org/10.1017/qua.2023.1
23) REEVES, B., BROOKE, C.F., VENTER, J.A., CONRADIE, W. (2022) The reptiles and amphibians of the Mpofu-Fort Fordyce Nature Reserve complex in the Winterberg Mountains, Eastern Cape Province, South Africa. <i>African Journal of Wildlife Research</i> 52: 134–145 https://doi.org/10.3957/056.052.0134
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26)	PARDO, L.E., SWANEPOEL, L., CURVEIRA-SANTOS, G., FRITZ, H., VENTER, J.A. (2022) Habitat structure, not the anthropogenic context or large predators, shapes occupancy of a generalist mesopredator across protected areas in South Africa. <i>Mammal Research</i> 67: 265–278. https://doi.org/10.1007/s13364-022-00636-4
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31)	EVERS, E.M., PRETORIUS, M.E., VENTER, J.A., HONIBALL, T., KEITH, M., MGQATSA, N., SOMERS, M.J. (2022). Varying degrees of spatio-temporal partitioning between large carnivores in a fenced reserve, South Africa. <i>Wildlife Research</i> https://doi.org/10.1071/WR21045
32)	HELM, C.W., CARR, A.S., CAWTRA, H.C., DE VYNCK, J.C., DIXON, M., STEAR, W., STUART, MC., STUART, M., VENTER, J.A. (2022). Possible Pleistocene Pinniped Ichnofossils on South Africa’s Cape South Coast. <i>Journal of Coastal Research</i> 38(4): 735-749 https://doi.org/10.2112/JCOASTRES-D-21-00131.1
33)	LOCKLEY, M.G., HELM, C.W., CAWTRA, H.C., DE VYNCK, J.C., DIXON, M., VENTER, J.A. (2022) Small mammal and arthropod trackways from the Pleistocene of the Cape south coast of South Africa. <i>Quaternary Research</i> , 107: 178–192. https://doi.org/10.1017/qua.2021.77
34)	HONIBALL, T., SOMERS, M.J., FRITZ, H., VENTER, J.A. (2021) Feeding ecology of the large carnivore guild in Madikwe Game Reserve, South Africa. <i>African Journal of Wildlife Research</i> 51: 153-165. https://hdl.handle.net/10520/ejc-wild2-v51-n1-a16
35)	FAURE, J.P.B., SWANEPOEL, L.H., CILLIERS, D., VENTER, J.A., HILL, R.A. (2021) Estimates of carnivore densities in a human-dominated agricultural matrix in South Africa. <i>Oryx</i> . pp. 1-8. DOI: https://doi.org/10.1017/S003060532100034X
36)	BULLOCK, K., WOOD, A., DAMES, V.A., VENTER, J.A., GREEFF, J. 2021. A decade of surf-zone linefish monitoring in the Dwesa-Cwebe Marine Protected Area, with a preliminary assessment of the effects of rezoning and resource use. <i>African Journal of Marine Science</i> . 43(3):1-15. https://doi.org/10.2989/1814232X.2021.1951353
37)	ALEXANDER, GJ, TOLLEY, KA, MARITZ, B, MCKECHNIE, A, MANGER, P, THOMSON, RL, et al. (2021) Excessive red tape is strangling biodiversity research in South Africa. <i>S Afr J Sci.</i> 2021;117(9/10), Art. #10787. https://doi.org/10.17159/sajs.2021/10787
38)	HELM, C.W., CAWTRA, H.C., COWLING, R.M., DE VYNCK, J.C., LOCKLEY, M.G., MAREAN, C.W., DIXON, M.G., HELM, C.J.Z., STEAR, W., THESEN, G.H.H., VENTER, J.A. (2021). Protecting and preserving South African aeolianite surfaces from graffiti. <i>Koedoe</i> 63(1), a1656. https://doi.org/10.4102/koedoe.v63i1.1656
39)	BROOKE, C.F., MAREAN, C.W., WREN, C.D., FRITZ, H. & VENTER, J.A. (2021). Retrodicting large herbivore biomass for the last glacial maximum on the Palaeo-Agulhas Plain (South Africa) using modern ecological knowledge of African herbivore assemblages and rainfall. <i>Quaternary Research</i> . :1-15 https://doi.org/10.1017/qua.2021.23
40)	BURT, C., FRITZ, H., KEITH, M., GUERBOIS, C. & VENTER, J.A. (2021). Assessing different methods for measuring mammal diversity in two southern African arid ecosystems. <i>Mammal Research</i> 66: 313-326. https://link.springer.com/article/10.1007/s13364-021-00562-x
41)	PARDO, L.E., BOMBACI, S., HUEBNER, S.E., SOMERS, M.J., FRITZ, H., DOWNS, C., GUTHMANN, A., HETEM, R.S., KEITH, M., LE ROUX, A., MGQATSA, N., PACKER, C., PALMER, M.S., PARKER, D.M., PEEL, M., SLOTOW, R., STRAUSS, W.M., SWANEPOEL, L., TAMBLING, C., TSIE, N., VERMEULEN, M., WILLI, M., JACHOWSKI, D., VENTER, J.A. (2021) Snapshot Safari: A large-scale collaborative to monitor Africa’s remarkable biodiversity. <i>South African Journal of Science</i> 117(1/2), Art. #8134. https://doi.org/10.17159/sajs.2021/8134
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43)	HODGKINS, J., MAREAN, C.W., VENTER J.A., RICHARDSON, L., ROBERTS, P., ZECH, J., DIFFORD, M., COPELAND, S.R., ORR, C.M., KELLER, H.M., FAHEY, B.P., LEE-THORP, J. (2020) An isotopic test of the seasonal migration hypothesis for large grazing ungulates inhabiting the Palaeo-Agulhas Plain. <i>Quaternary Science Reviews</i> 235. https://doi.org/10.1016/j.quascirev.2020.106221

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56)	MARTENS, F.R., PFEIFFER, M.B., DOWNS, C.T. & VENTER, J.A. (2018) Post-fledging movement and spatial ecology of the endangered Cape Vulture (<i>Gyps coprotheres</i>), Journal of Ornithology, 159(4): 913-922. https://doi.org/10.1007/s10336-018-1564-x
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60)	CONRADIE, W., REEVES, B., BROWN, N. & VENTER, J.A. (2016) Herpetofauna of the Oviston, Commando Drift and Tsolwana nature reserves in the arid interior of the Eastern Cape Province, South Africa, Indago 32.
61)	PFEIFFER, M., VENTER, J.A. & DOWNS, C. (2016) Cliff characteristics, neighbour requirements and breeding success of the colonial Cape Vulture <i>Gyps coprotheres</i> , Ibis 159:26-37. http://onlinelibrary.wiley.com/doi/10.1111/ibi.12428/full
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Book sections/chapters	
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2)	VENTER J, CHILD MF. 2016. A conservation assessment of <i>Alcelaphus buselaphus caama</i> . In Child MF, Roxburgh L, Do Linh San E, Raimondo D, Davies-Mostert HT, editors. <i>The Red List of Mammals of South Africa, Swaziland and Lesotho</i> . South African National Biodiversity Institute and Endangered Wildlife Trust, South Africa
3)	VENTER J, SEYDACK A, EHLERS-SMITH Y, UYS R, CHILD MF. 2016. A conservation assessment of <i>Philantomba monticola</i> . In Child MF, Roxburgh L, Do Linh San E, Raimondo D, Davies-Mostert HT, editors. <i>The Red List of Mammals of South Africa, Swaziland and Lesotho</i> . South African National Biodiversity Institute and Endangered Wildlife Trust, South Africa.
4)	VENTER J, EHLERS-SMITH Y, SEYDACK A. 2016. A conservation assessment of <i>Potamochoerus larvatus</i> . In Child MF, Roxburgh L, Do Linh San E, Raimondo D, Davies-Mostert HT, editors. <i>The Red List of Mammals of South Africa, Swaziland and Lesotho</i> . South African National Biodiversity Institute and Endangered Wildlife Trust, South Africa.
5)	GAYLARD A, VENTER J, EHLERS-SMITH Y, CHILD MF. 2016. A conservation assessment of <i>Dendrohyrax arboreus</i> . In Child MF, Roxburgh L, Do Linh San E, Raimondo D, Davies-Mostert HT, editors. <i>The Red List of Mammals of South Africa, Swaziland and Lesotho</i> . South African National Biodiversity Institute and Endangered Wildlife Trust, South Africa.
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4) VENTER, J.A., FOUCHE, P.S.O, VLOK, W., MOYO, N.A.G., GROBLER, P., THERON, S. 2010. A guide to the development of conservation plans for southern African fish species. WRC Report No. 1677/1/10. Water Research Commission, Pretoria South Africa.
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1) VENTER, J.A., PARDO, L, OSNER, N.R., HUEBNER, S., NICVERT, L., SWANEPOEL, L., PEEL, M., SOMERS, M., KEITH, M., FRITZ, H. 2023 Running a large-scale, long-term camera trap monitoring project for conservation in Africa, the SnapshotSafari experience. 13th International Mammalogical Congress, Anchorage, Alaska, USA
2) HONIBALL, T., VALEIX, M., FRITZ, H., SWANEPOEL, L. & VENTER, J.A. 2023 The Human-Wildlife Landscape: Effects of Fences as a Conservation Management Tool, 13th International Mammalogical Congress, Anchorage, Alaska, USA
3) VENTER, J.A. & BETTINGS, I. (2022) Using a spatially explicit capture-recapture model to investigate the demography and spatial dynamics of lion prides in Pilanesberg National Park. 2 nd North West Provincial Annual Biodiversity Research Symposium, Rustenburg, South Africa.
4) VENTER, J.A. & SWARTZ, Y. (2019) Insights into past and present behaviour and impacts of a fast-growing elephant population in Madikwe Game Reserve. 1 st North West Provincial Annual Biodiversity Research Symposium, Cookes Lake, Mahikeng, South Africa.
5) VENTER, J.A., BROOKE, C., MAREAN, C., FRITZ, H. & HELM, C. 2019. Conceptual reconstruction of Late Pleistocene large mammal assemblages of the Palaeo-Agulhas Plain reveals resilience to climate change but vulnerability to modern humans. 8 th European Congress of Mammalogy, Warsaw, Poland.
6) VENTER, J.A., BROOKE, C., MAREAN, C., FRITZ, H. & HELM, C. 2019. Conceptual reconstruction of large mammal assemblages of the Palaeo-Agulhas Plain reveals resilience to climate change but vulnerability to modern humans. 29th International Congress for Conservation Biology (ICCB 2019), Kuala Lumpur, Malaysia.
7) VENTER, J.A., BROOKE, C., MAREAN, C., FRITZ, H. & HELM, C. 2019. Conceptual reconstruction of large mammal communities on the Palaeo-Agulhas Plain. Annual Meeting & Centennial celebration of the American Society of Mammalogists, Hyatt Regency Washington on Capitol Hill, Washington DC.
8) VENTER, J.A., VERMEULEN, M.M., PACKER, C., SLOTOW, R., DOWNS, D., SOMERS, M.J., PEEL, M., SWANEPOEL, L., MGQATSA, N., FRITZ, H., WILLOWS-MUNRO, S., KEITH, M., PARKER, D., LE ROUX, A. 2018. Snapshot Safari – South Africa: Contemporary applications of camera traps to monitor mammal communities in South African protected areas. Joint SANBI Biodiversity Information Management & Foundational Biodiversity Information Programme Forum, Cape St Francis, Eastern Cape, South Africa.
9) VENTER, J.A., PRINS, H.H.T., MASHANOVA, A., & SLOTOW, R., 2017. Ungulates rely less on visual cues, but more on adapting movement behaviour, when searching for forage, 12th International Mammalogical Congress, Perth, Western Australia.
10) VENTER, J.A., MARTENS, F.R., PFEIFFER, M.B., DOWNS, C.T. 2017. Cape vultures and wind turbines: Between a rock and a hard place. Southern African Wildlife Management Association Symposium: Wildlife management in the face of global change, Goudini, Western Cape Province, South Africa
11) VENTER, J.A., PRINS, H.H.T., MASHANOVA, A., DE BOER, W.F., & SLOTOW, R., 2014. Intrinsic and extrinsic factors influencing large African herbivore movements. Southern African Wildlife Management Association Symposium: Reconciling the contradictions of wildlife management in southern Africa. Pine Lodge Resort, Port Elizabeth, Eastern Cape, South Africa.
12) VENTER, J.A., PRINS, H.H.T., MASHANOVA, A., DE BOER, W.F., & SLOTOW, R., 2014. Intrinsic and extrinsic factors influencing large African herbivore movements. Spatial Ecology & Conservation 2, University of Birmingham, Birmingham, United Kingdom.
13) VENTER, J.A., PRINS, H.H.T., BALFOUR, D.A., SLOTOW, R. 2013. Reconstructing grazer assemblages for protected area restoration in South Africa. 11 th International Mammalogical Congress, Queens University of Belfast, Belfast, Northern-Ireland.
14) VENTER, J.A., NABE-NIELSEN, J., PRINS, H.H.T., SLOTOW, R. 2012. Fire-patch foraging by red hartebeest and zebra in nutrient limited grassland under variable predation risk. Southern African Wildlife Management Association Symposium: Responsible Biodiversity Research and Wildlife Management, Klein Kariba, Limpopo Province, South Africa.
15) VENTER, J.A., FOUCHE, P. & VLOK, W. 2010. The development of a conservation framework for threatened southern African fish. 24th International Congress for Conservation Biology, Edmonton, Canada.

16) HAMER, M., SLOTOW, R. & VENTER, J.A. 2008. Patterns of invertebrate species richness and endemism in a protected area on the Pondoland Coast, South Africa. Southern African Wildlife Management Association Symposium: Wildlife Management – Biodiversity Conservation: The science-management interface. Impekweni Resort, Port Alfred, Eastern Cape, South Africa.		
17) VENTER, J.A., 2005. The feeding ecology of Cape buffalo on Doornkloof Nature Reserve, Northern Cape Province. Southern African Wildlife Management Association Symposium: Wildlife Management – A conservation or economic Incentive, Magoebaskloof, Limpopo Province South Africa.		
18) VENTER, J.A., HARLEY, V. & MALATJI, M.B. 2004. Game counts on Northern Cape Provincial Nature Reserves: Recommendations for future management. Southern African Wildlife Management Association Symposium: Innovations in Managing Wildlife Resources. Kathu, Northern Cape, South Africa.		
19) VENTER, J.A., 2001. The Karoo habitat of the Blue Crane (<i>Anthropoides paradiseus</i>). The 13th South African Crane Working Group Workshop and the Southern African Strategy Meeting, South African Crane Working Group. Howick, Kwazulu-Natal, South Africa.		
Poster presentations		
1) VENTER, J.A. 2011. The value of science to improve conservation management effectiveness in marine protected areas. World Marine Biodiversity Conference 2011, Aberdeen, Scotland. (Digital object presentation)		
2) VENTER, J.A., FOUCHE, P. & VLOK, W. 2010. The current distribution of <i>Opsaridium peringueyi</i> in South Africa: Is there reason for concern? 8th Annual Science Networking Meeting, Kruger National Park, Skukuza, Mpumalanga, South Africa.		
3) VENTER, J.A., MOYO, N., VLOK, W., FOUCHE, P. & GROBLER, J.P. 2005. The ecology and distribution of the Southern Barred Minnow (<i>Opsaridium peringueyi</i>) in some southern African river systems. Southern African Wildlife Management Association Symposium: Wildlife Management – A conservation or economic Incentive, Magoebaskloof, Limpopo, South Africa.		
Grant funding		
National Research Foundation Bill Branch Memorial Grant Oppenheimer Trust Ernest and Ethel Eriksen Trust Copenhagen Zoo Shangani Ranch Amarula Elephant Fund The Elephant Managers Association The Palaeontological Scientific Trust Fynbos Trust Grootbos Foundation Fairfield Fund Dormehl Cunningham Scholarship Funding Cape Leopard Trust	Society for Conservation Biology National Geographic Society Forestry CETA Rufford Foundation Templeton Foundation Waitt Grants Program US National Science Foundation South African Water Research Commission Harry and Anette Swartz Foundation Lion Recovery Fund Tswalu Foundation Madikwe Wildlife Trust Panthera	
Review of journal manuscripts		
African Journal of Wildlife Research, African Journal of Marine Research, African Zoology, African Ecology, International Journal of Marine Science, Environmental Monitoring and Assessment, Ecological Applications, Acta Theriologica, Ecological Research, International Journal of Biodiversity and Conservation, PeerJ, Ecological Informatics, Mammal Research, Urban Forestry & Urban Greening, Journal of Arid Environments, Biodiversity and Conservation, Journal of Ornithology, Transportation Research Part D: Transport and Environment, Remote Sensing in Ecology and Conservation, Mammalia, Ecological Monographs, Kudu, Global Ecology and Conservation		
Research reviews or supervisory panels		
National Research Foundation	NRF Researcher Rating Review	2020 (Reviewer)
National Research Foundation	Postdoctoral, Travel, General and International Research Grants Virtual Peer Review Panel	2020 (Review Panel)
National Research Foundation	Postgraduate Bursaries/ Travel Grants Virtual Peer Review Panel	2019 (Review Panel)
National Research Foundation	Physiological plasticity of water-dependent antelope	2019 (Reviewer)
National Research Foundation	Mechanisms of resource selection and space use in a recovering rare antelope population	2018 (Reviewer)
Water Research Commission	WRC Project K5/2337 - Assessing the effect of global climate change on indigenous and alien fish in the Cape Floristic	2014-2017 (supervisory panel)

	Region		
Water Research Commission	WRC Project K5/2039 - To understand the unintended spread and impact of alien and invasive fish species in order to develop mitigation and prevention guidelines.		2012-2014 (supervisory panel)
Water Research Commission	WRC Project K5/2187 – The resilience of South Africa’s estuaries to future water resource development based on a provisional ecological classification of these systems.		2012-2014 (supervisory panel)
Water Research Commission	WRC Project K5/2261 - Evaluating fish and macro-invertebrate recovery rates in the Rondegat river, Western Cape, after river rehabilitation by alien fish removal using rotenone.		2013-2016 (supervisory panel)
Student supervision			
BSc Hon/BTech			
1) M. Mbiko	Honours degree (Zoology), Walter Sisulu University, Co-supervisor	The study of dietary niche separation for ungulates in Mkambati Nature Reserve, using the stable carbon isotopes	Completed (2014)
2) E. Jones	BTech (Nature Conservation), NMU, Supervisor	Amphibians and Vegetation as indicators of Conservation Value of Wetlands in an Anthropogenically Impacted Landscape	Completed (2016) <i>Cum Laude</i>
3) K. Green	BTech (Nature Conservation), NMU, Supervisor	Variables affecting mammal species rate of capture as evaluated by camera traps on Tswalu Kalahari Reserve	Completed (2016)
4) B White	BTech (Nature Conservation), NMU, Supervisor	Water Bird Counts Along the Klein Brak River: A Study on the Precision of Citizen Science Counts	Completed (2016)
5) P Rossouw	BTech (Nature Conservation), NMU, Supervisor	Herpetological biodiversity in areas adjacent to the Wilderness section of the Garden Route National Park	Completed (2016)
6) S. Schimmel	BTech (Nature Conservation), NMU, Supervisor	Mammal diversity and density in transformed and natural landscapes of a conservation corridor adjacent to the Garden Route National Park, Western Cape	Completed (2016)
7) S. Atkinson	BTech (Nature Conservation), NMU, Supervisor	The precision of waterfowl numbers through Co-ordinated Waterbird Counts on the Great Brak Estuary	Completed (2016)
8) A. Robinson	BTech (Nature Conservation), NMU, Supervisor	Does distance from water influence herbivore assemblages in Kruger National Park?	Completed (2017)
9) D. van Aswegen	BTech (Nature Conservation), NMU, Supervisor	The effect of forest fragmentation on forest bird diversity and movement in a plantation dominated landscape	Completed (2017)
10) KL Midlane	BTech (Nature Conservation), NMU, Supervisor	Amphibian and reptile biodiversity patterns in commercial plantations of the Southern Cape	Completed (2017)
11) M. Gouws	BTech (Nature Conservation), NMU, Supervisor	Do different herbivores influence soil nitrogen levels in Satara, Kruger National Park?	Completed (2017)
12) O. Rynders	BTech (Nature Conservation), NMU, Supervisor	Forest fragmentation and its effects on invertebrate diversity and abundance	Completed (2017) <i>Cum Laude</i>
13) Z. Schoeman	BTech (Nature Conservation), NMU, Supervisor	The effect of anthropogenic disturbance on marine shorebird population size and habitat use in the Garden Route	Completed (2017)
14) D. de Villiers	BTech (Nature Conservation), NMU, Supervisor	The herpetological diversity in the Karoo National Park in South Africa	Completed (2018)
15) C. Esmeraldo	BTech (Nature	The influence of vegetation and water on	Completed (2018)

	Conservation), NMU, Supervisor	ungulate distribution in the Karoo National Park	
16) A. Laas	BTech (Nature Conservation), NMU, Supervisor	The activity patterns of herbivores exposed to predators in the Karoo National Park, South Africa	Completed (2018)
17) J. Dicker	BTech (Nature Conservation), NMU, Supervisor	The activity patterns of species exposed to large predators in the Mountain Zebra National Park	Completed (2018)
18) S. Truter	BSc Hons (Wildlife Management), UP, Co-Supervisor	Effects of medium to large carnivores on small carnivores in space and time in the Telperion Nature Reserve	Completed (2018)
19) N. Nkosi	BTech (Nature Conservation), NMU, Supervisor	Ungulates response to old agricultural fields in Gondwana Game reserve	Completed (2019)
20) I. Bettings	BTech (Nature Conservation), NMU, Supervisor	Habitat variations influencing the frequency of bird strikes in high air traffic areas within the George Airport	Completed (2019)
21) D. Ball	BTech (Nature Conservation), NMU, Supervisor	Large tree utilisation of the African Elephant (<i>Loxodonta africana</i>) in the Savanna biome	Completed (2019)
22) G. Reynolds	BTech (Nature Conservation), NMU, Supervisor	Assessing impacts of African elephant (<i>Loxodonta africana</i>) on the vegetation of Gondwana Private Game Reserve	Completed (2019)
23) K. Smith	BSc Hons (Wildlife Management), UP, Co-Supervisor	Testing the spatial and temporal avoidance hypothesis in a semi-arid landscape: Do subordinate carnivores of the Karoo change behaviour in response to dominant predators?	Completed (2019) <i>Cum Laude</i>
24) G. Sambula	BSc Hons (Zoology), UNIVEN, Co-Supervisor	Carnivore Richness In Private And State Protected Areas	Completed (2019)
25) T. Baird	BSc Hons (Wildlife Management), UP, Co-Supervisor	Spatial and temporal avoidance between large and meso-carnivores	Completed (2020)
26) A. Gervais	BSc Hons (Wildlife Management), UP, Co-Supervisor	Investigating the impact of large carnivores on mesocarnivores' temporal dynamics	Completed (2020)
27) Miss E.E.M. Evers	BSc Hons (Wildlife Management), UP, Co-Supervisor	Spatial and temporal organization of leopards (<i>Panthera pardus</i>) and spotted hyaena (<i>Crocuta crocuta</i>) on Madikwe Game Reserve	Completed (2020)
28) Mr R. Pienaar	BSc Hons (Animal, Plant & Environmental Science), WITS, Co-Supervisor	Do lions with long, dark manes behaviourally compensate for potentially high heat loads?	Completed (2020)
29) Mr I Kayiza	BSc Hons (Wildlife Management), UP, Co-Supervisor	Edge effect and its impacts on the abundance of mammal species in selected protected areas in South Africa	Completed (2020)
30) Mr N.K. Shah	BSc Hons (Wildlife Management), UP, Co-Supervisor	Do herbivores change their behaviour in the absence of lions in arid areas of SA?	Completed (2021) <i>Cum Laude</i>
31) Miss M. Thomson	BSc Hons (Wildlife Management), UP, Co-Supervisor	Herbivore space use in Atherstone Nature Reserve, Limpopo Province, South Africa.	Completed (2021) <i>Cum Laude</i>
32) Miss T. Tiribeni	BSc Hons (Wildlife Management), UP, Co-Supervisor	The effect of lion pride structure on home ranges	Completed (2022)
33) Miss K. Mieny	BSc Hons (Wildlife Management), UP, Co-	A Preliminary Assessment of the Seasonal Difference and Influence of	Completed (2022)

	Supervisor	Megaherbivores on the Diets of Large Herbivores in Sanbona Wildlife Reserve	
34) Mr A. van Niekerk	BSc Hons (Wildlife Management), UP, Co-Supervisor	Leopard tortoise occupancy in arid reserves in South Africa: assessment using camera traps.	Completed (2022)
35) Miss H. Basson	BSc Hons (Natural Resource Management), NMU, Co-supervisor	Factors influencing Chondrichthyan egg case hatching success in Mossel Bay, South Africa	Completed (2023) <i>Cum Laude</i>
36) Miss Y. Markides	BSc Hons (Natural Resource Management), NMU, Supervisor	The Development of a Condition Scoring System for White Rhinoceros (<i>Ceratotherium simum</i>), using expert knowledge	Completed (2023)
37) Mrs Rebecka Ryan	BSc Hons (Natural Resource Management), NMU, Supervisor	Opportunistic utilisation of resource pulses by a mesopredator in Welgevonden Game Reserve, South Africa	Completed (2023) <i>Cum Laude</i>
38) Mr D Stols	BSc Hons (Natural Resource Management), NMU, Co-supervisor	Elephants reduce vegetation diversity and affect tree structure in Madikwe Game Reserve	Completed (2023) <i>Cum Laude</i>
39) Mr T. Fifford	BSc Hons (Natural Resource Management), NMU, Supervisor	An assessment of a decade of surf-zone linefish monitoring in the Goukamma Marine Protected Area: Is the current resource use zonation effective?	Completed (2023) <i>Cum Laude</i>
40) Mr D.J.S. Samarasinghe	BSc Hons (Natural Resource Management), NMU, Supervisor	On the population ecology of an island leopard from a protected landscape	Completed (2023)
41) Miss S Rich	BSc Hons (Wildlife Management), UP, Co-Supervisor	The effect of vehicles on black-backed jackal (<i>Lupulella mesomelas</i>) and leopard (<i>Panthera pardus</i>) activity	Completed (2023)
42) Miss M. Venter	BSc Hons (Wildlife Management), UP, Co-Supervisor	Drivers of free-roaming African wild dog land use in the Waterberg, South Africa	Completed (2023)
Masters			
1) Mr E. Mmonoa	MSc (Zoology), University of Limpopo, Co-supervisor	Breeding habitat of Blue crane (<i>Anthropoides paradiseus</i>) in Mpumalanga	Completed (2010)
2) Miss M. Pfeiffer	Msc (Zoology), University of Kwazulu-Natal, Co-supervisor	Understanding the association between Cape Vultures (<i>Gyps coprotheres</i>) and communal farmland.	Upgraded to PhD (2013)
3) Mrs M. Vermeulen	MSc (Nature Conservation), NMU, Co-supervisor	Exploring feeding ecology and population growth rate responses of ungulates in southern African arid biomes	Completed (2016-2017)
4) Mr C. Brooke	MSc (Nature Conservation), NMU, Supervisor	Energy maximisation strategies of different African herbivores in a fire dominated and nutrient poor grassland ecosystem	Completed (2016-2017) <i>Cum Laude</i>
5) Miss F. Martens	MSc (Nature Conservation), NMU, Supervisor	The spatial ecology and roost site selection of fledging Cape Vultures (<i>Gyps coprotheres</i>) in the Eastern Cape, South Africa.	Completed (2016-2017) <i>Cum Laude</i>
6) Mrs T. Meintjes	MSc (Nature Conservation – Part time), NMU, Supervisor	Using citizen science data to evaluate waterbird populations in the Garden Route	Deregistered (2016-2020) Not completed
7) Miss D. Winterton	MSc (Nature Conservation), NMU, Supervisor	Land use and ecosystem regulation: Exploring the influence of management practise on mesopredator and herbivore	Completed (2017-2018)

		interactions	
8) Mr J. Vogel	MSc (Nature Conservation), NMU, Supervisor	Predicting reintroduction outcomes: Assessing the feasibility of reintroducing African wild dog to a small protected area.	Completed (2017-2018) <i>Cum Laude</i>
9) Miss C. Young	MSc (Nature Conservation), NMU, Supervisor	Examining the influence of extrinsic factors on herbivore assemblage composition and resultant nutrient feedbacks in Kruger National Park	Completed (2017-2018)
10) Miss A. Robinson	MSc (Nature Conservation), NMU, Supervisor	The influence of water dependency on the spatial ecology of large mammalian herbivores on the paleo-Agulhas plain	Deregistered (2018-2022) Not completed
11) Miss Z. Schoeman	MSc (Nature Conservation), NMU, Supervisor	The spatiotemporal aspects of predation on the Cape gannet <i>Morus capensis</i> population at Bird Island, Lambert's Bay, Western Cape, South Africa	Completed (2018-2019)
12) Mr P. Faure	MSc (Nature Conservation), NMU, Supervisor	The influence of anthropogenic and environmental covariates on the habitat use and density of sympatric carnivores, Limpopo Province, South Africa	Completed (2018-2019)
13) Miss YRP. Swartz	MSc (Nature Conservation), NMU, Supervisor	Elephants in Madikwe Game Reserve: Measuring past and future impacts	Deregistered (2018-2021) Not completed
14) Miss C. Burt	MSc (Nature Conservation), NMU, Supervisor	An assessment of different methods for measuring mammal diversity in two Southern African arid ecosystems	Completed (2018-2020)
15) Miss A. Jansen-van Vuuren	MSc (Nature Conservation), NMU, Supervisor	The feeding ecology and habitat selection of small antelopes in the Overberg Renosterveld, Western Cape	Completed (2019-2020)
16) Mr H. Swanepoel	MSc (Nature Conservation), NMU, Supervisor	The implications of landscape scale habitat fragmentation and ecological corridors on the spatial ecology of five specialist browser species in a lowland Fynbos and Renosterveld ecosystem.	Completed (2019-2020)
17) Miss T. Honiball	MSc (Nature Conservation), NMU, Supervisor	Estimating the population size of three large carnivore species and the diet of six large carnivore species, in Madikwe Game Reserve	Completed (2019-2020)
18) Miss N. Tsie	MSc (Wildlife Management), UP, Co-supervisor	The interaction between burrowing mammal occurrence and large carnivore presence in South Africa	Deregistered, Not completed (2019-2022)
19) Mrs C. Shutte	MSc (Nature Conservation), NMU, Supervisor	Understanding what factors determine the birth-sex ratio of Chacma baboons (<i>Papio ursinus</i>) on the Cape Peninsula	Deregistered, Not completed (2020-2023)
20) Miss I. Bettings	MSc (Nature Conservation), NMU, Supervisor	Using spatial explicit capture-recapture model to investigate the demography and spatial dynamics of lion prides in Pilanesberg National Park	Completed (2020-2021)
21) Mr Kyle Smith	MSc (Wildlife Management), UP, Co-supervisor	Testing the spatial and temporal avoidance hypotheses: Do subordinate carnivores change behaviour in response to dominant carnivores?	Completed (2020-2022)
22) Mr D. Ball	MSc (Nature Conservation), NMU, Supervisor	Do African elephants (<i>Loxodonta africana</i>) use artificial water points as central forage stations in the Madikwe Game Reserve?	Deregistered (2020-2021) Not completed
23) Miss J. Daya	MSc (Nature Conservation), NMU, Supervisor	Feeding ecology and habitat preference of black rhino (<i>Diceros bicornis</i>) in Welgevonden Game Reserve, Limpopo Province.	Completed (2020-2021)

24) Mr TD Baird	MSc (Wildlife Management), UP, Co-supervisor	Implications of camera trap survey design and analytical methods for large carnivore estimates	Completed (2021)
25) Miss J. Harris	MSc (Nature Conservation), NMU, Supervisor	Investigating the effects of pulse-driven resource availability on mammal communities in the Kalahari, South Africa	Completed (2021-2022)
26) Mr Markus Woesner	MSc (Conservation and Management of Fish and Wildlife), Swedish University of Agricultural Science, Co-supervisor	Does the response to hot temperatures differ among species in a large herbivore community in the southern Kalahari? A landscape of risk versus heat	Completed (2022-2023)
27) Mr Samuel Ralph Davidson-Phillips	MSc (Nature Conservation), NMU, Supervisor	Estimation of a generalist meso-carnivore (Black-backed Jackal) population from a fenced protected area	Completed (2022-2023) <i>Cum Laude</i>
28) Mr Moraswi Masehle	Magister Science Wildlife Health, Ecology and Management, University of Pretoria, Co-supervisor	The Activity Patterns of the Specialized Browsing Species and their Behavioral Adjustments in Response to Predation	In progress (2022)
29) Mr Jaco Geldenhuys	Master of Scientiae (MSc) in Environmental Management, University of Pretoria, Co-supervisor	Occupancy of black-backed jackal (<i>Canis mesomelas</i> Schreber, 1775) across South Africa	In progress (2021-2022)
30) Miss Cleo Ferreira	MSc (Nature Conservation), NMU, Supervisor	Evaluating the impact of dehorning on the behavioural ecology of white rhinoceros (<i>Ceratotherium simum</i>)	In progress (2023-2024)
Doctoral			
1) Miss M. Pfeiffer	PhD (Zoology), University of Kwazulu-Natal, Co-supervisor	Ecology and conservation of the Cape Vulture in the Eastern Cape, South Africa	Completed 2016
2) Mr W. Matthee	PhD (Nature Conservation – Part time), NMU, Supervisor	Forest birds and habitat fragmentation: evolutionary adaptations to environmental change	Deregistered, Not completed (2016-2022)
3) Mrs MM. Vermeulen	PhD (Nature Conservation), NMU, Supervisor	Variation in abundance and structure of mammal communities and the consequences for species diversity	In progress (2018-2022)
4) Mrs FR. Brooke	PhD (Nature Conservation), NMU, Supervisor	Cape Vultures and their increasing threats: a race to extinction?	Completed (2018-2021)
5) Mr CF. Brooke	PhD (Nature Conservation), NMU, Supervisor	Large mammalian fauna of the Palaeo-Agulhas Plain: Predicting habitat use and range distribution	Completed (2018-2020)
6) Mr P. Mkumba	PhD (Nature Conservation), NMU, Co-Supervisor	Migration patterns of male elephants (<i>Loxodonta africana</i>) in the Hwange-Shangani corridor: Consequences on Human Elephant Conflict	In progress (2019-2022)
7) Mr W. Conradie	PhD (Nature Conservation), NMU, Supervisor	Herpetofaunal diversity and affiliations of the Okavango River Basin, with specific focus on the Angolan headwaters.	Completed (2020-2023)
8) Miss A. Bernard	PhD (Zoology) REHABS International Research Laboratory, CNRS-Université Lyon 1- Nelson Mandela University, Co-Supervisor	Trophic guild distortion in anthropogenic landscapes – Testing anthropodependence and reconciliation ecology principles of mammals in the Greater Cape Floristic Kingdom.	Completed (2020-2022)

9) Mr GS. Botha	PhD (Nature Conservation), NMU, Supervisor	The effects of fences and other infrastructure on the mammal community structure and distribution in protected areas across South Africa.	In progress (2020-2024)
10) Dr C. Helm	PhD (Geoscience), NMU, Co-supervisor	Pleistocene fossil tracks and traces on the Cape coast of South Africa	Completed (2020-2023)
11) Mrs Z. Strydom	PhD (Nature Conservation), NMU, Supervisor	Assessing the effects of fish stock management on endangered seabird populations in South Africa	Completed (2020-2023)
12) Mrs W.L. Zeller Zigaitis	PhD (Geography), Pennsylvania State University	Protected Area Process and Design: Using Geospatial Data to Mitigate Poaching in Protected Areas	Completed (2020-2024)
13) Miss T. Honiball	PhD (Nature Conservation), NMU, Supervisor	Fission fusion dynamics of spotted hyaena (<i>Crocuta crocuta</i>) in fenced protected areas: Implications for conservation management of a socially intelligent species	Completed (2021-2024)
14) Miss A. Jansen van Vuuren	PhD (Nature Conservation), NMU, Supervisor	The role of spotted and brown hyaena activity hotspots on interspecific interactions	In progress (2021-2024)
15) Mr H. Swanepoel	PhD (Nature Conservation), NMU, Supervisor	The effects of climate on the phenology of African ungulates in arid and semi-arid regions of South Africa.	In progress (2022-2024)
16) Miss J Daya	PhD (Nature Conservation), NMU, Supervisor	Managing Lions in Pilanesberg National Park: Finding a Balance between Economic and Ecological Realities in Fenced Parks	In progress (2023-2025)
17) Miss J Harris	PhD (Nature Conservation), NMU, Supervisor	A Game of Thrones: Rivals, territories and resources. What are the intrinsic costs to African lions contained in small, fenced parks?	Deregistered (2023-2023) Not completed.
18) Miss E Overton	PhD (Nature Conservation), NMU, Supervisor	The ecological role of cheetah (<i>Acinonyx jubatus</i>) and their impact on prey populations on Tswalu Kalahari Reserve	In progress (2023-2026)
Post-Doctoral Researchers & Research fellows			
1) Dr L. Pardo-Vargas	Snapshot Safari South Africa – A country wide assessment of mammal biodiversity		FBIP-NRF Post-Doctoral Researcher (2019-2020) NRF Innovation Postdoctoral Fellowship (2021-2022)
2) Dr C. Guerbois	Social-Ecological Systems		NMU Research Fellow (2019-2023)
3) Dr D. Marneweck	Snapshot Safari South Africa – A country wide assessment of mammal biodiversity		NMU Post-Doctoral Research Fellow (2020-2021)
4) Dr C. Brooke	Late Pleistocene herbivore use on the Palaeo-Agulhas Plain: the facilitation role of megaherbivores and the implications for the modern rewilding of landscapes		NRF Innovation Postdoctoral Fellowship (2021-2022)
5) Dr R. Davies	Assessing the density, distribution and spatiotemporal dynamics of small carnivores across African conservation landscapes		NMU Post-Doctoral Research Fellow (2022-2023)
6) Dr Chad Keates	Genetic study on herpetological samples from Angola in association with Werner Conradie, PE Museum.		NMU Post-Doctoral Researcher (2022)
7) Dr L Thel	A Game of Thrones: Rivals, territories and resources. What are the intrinsic costs to African lions contained in small, fenced parks?		FBIP-NRF Post-Doctoral Researcher (2023-2024) NMU Post-Doctoral Research Fellow (2025-2026)

6. Experience in Teaching & Learning

Teaching experience		
Time period	Institution	Module or Course Information

2015-current	Nelson Mandela University	I teach Animal Studies I/Game Health I & Animal Studies III/Game Science III to undergraduates (Diploma in Nature Conservation and Diploma in Game Ranch Management), Conservation Management and Plant Studies IV (BTech Nature Conservation), Game Science IV/Animal Studies IV (Advanced Diploma in Game Ranch Management & Advanced Diploma Nature Conservation), Conservation Management (BSc Hons Natural Resource Management).	
2022 (April-May)	Swedish University of Agricultural Sciences	Visiting lecturer at the Department Wildlife, Fish and Environmental Studies, Umea. Course work Masters degree, International Wildlife Management Module. Sweden-South Africa Erasmus ICM exchange program on wildlife ecology and management	
2010-2018	Pennsylvania State University/University of Cape Town	Assisted in setting up and hosting a study abroad program called People and Parks South Africa (http://aeseda.psu.edu/programs/parks-and-people-south-africa/). The students spend 10 weeks in South Africa (January-March) on an annual basis. I was one of the South African field lecturers for the program and presented practical biodiversity surveys (where we physically conducted biodiversity inventory surveys on various protected areas) and since 2013 an introductory course to conservation in South Africa. This course (2 weeks) introduced students to South African ecological and biodiversity features as well as various protected area management models while traveling from Cape Town to their base (Wild Coast, Eastern Cape).	
2005	University of Limpopo	Taught GIS to 1 st and 2 nd year students for one semester as substitute lecturer at the Department of Geography	
Curriculum Development & Review			
2019	Nelson Mandela University	Development of the new Advanced Diploma: Nature Conservation	Team leader of course development team
2018-2019	Nelson Mandela University	Development of the new BSc Honours: Natural Resource Management	Team member of the course development team
2020	University of South Africa	Review of the Postgraduate Diploma: Nature Conservation	Chairman of the external review committee
2020	Southern African Wildlife College	Review of a new Diploma: Applied Natural Resource Management	External reviewer

7. Professional membership and service

Association	Details	Time period
South African Wildlife Management Association	Ordinary member (Council member 2008-2010; 2018-2023)	1998-Current date
Zoological Society of Southern Africa	Ordinary member	2009-2023
IUCN Crocodile Specialist Group	Ordinary member	2013-Current date
Mammal Research Institute, University of Pretoria	Research Associate	2013-Current date
Centre for Coastal Palaeo Science, NMU	Honorary Researcher	2016-Current date
South African Council for Natural Scientific Professions	Professional Natural Scientist – Ecological Sciences: Registration Number. 400111/14	2014-Current date
Associated Private Nature Reserves Ecological Advisory Committee	Committee member	2022 – Current date
Welgevonden Game Reserve Scientific Advisory Committee	Committee member	2018-Current date
BirdLife South Africa and Endangered Wildlife Trust - Birds and Renewable Energy Specialist Group	Specialist advisor	2019-2021
REHABS International Research Laboratory, CNRS- Université Lyon 1-Nelson Mandela University, George Campus	Research Associate	2019-Current date
Society for Conservation Biology	Professional Member	2020-Current date
Centre for African Conservation Ecology, Nelson	Member	2022-Current date

Mandela University		
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8. Other courses and qualifications

List of qualifications obtained	List of courses completed
Professional Hunter; Category C Skippers License; Marine VHF Radio Operator; NAUI Open Water 1 SCUBA Diver	Statistical Techniques in Ecology, Snake ID & Snakebite Treatment; Advanced Snake Handling; Conservation Planning; Practical Remote Sensing for Conservation Biologists; Ecological Niche Modelling; Landscape genetic approaches for Conservation Biologists; Resource evaluation and game ranch management for sustainable game production and conservation; Disease Risk Assessment; Game counting techniques; Wildlife handling and welfare; Maintenance of outboard motors and handling of boats on inland waters; Various ArcView, ArcGIS courses; Quantum GIS Various Windows Software courses; Financial management systems; Peace officer; Problem animal control.

9. Referees

Prof. Herbert Prins

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Prof. Michael Somers

Professor

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herewith certifies that

Jan Adriaan Venter

Registration Number: 400111/14

is a registered scientist

in terms of section 20(3) of the Natural Scientific Professions Act, 2003
(Act 27 of 2003)

in the following field(s) of practice (Schedule 1 of the Act)

Ecological Science (Professional Natural Scientist)

Effective **12 March 2014**

Expires **31 March 2025**



A handwritten signature in black ink, appearing to read 'A. Venter'.

Chairperson

A handwritten signature in black ink, appearing to read 'M. M. M.'.

Chief Executive Officer

