

Submitted to: Waldeck (Pty) Ltd Attention: Mr. Constatin Fugger P.O. Box 21012 Olympia, Windhoek Namibia.

ASSESSMENT REPORT: PROPOSED CONSTRUCTION AND DEVELOPMENT OF A TOURISM AND HUNTING LODGE ON FARM WALDECK NO.28, KHOMAS REGION, NAMIBIA

PROJECT NUMBER: ECC-121-452-REP-10-D

REPORT VERSION: REV 01

DATE: 26 OCTOBER 2023





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TITLE AND APPROVAL PAGE

Project Name: Proposed construction and development of a tourism and hunting

lodge on Farm Waldeck No.28, Khomas Region, Namibia

Client Company Name: Waldeck (Pty) Ltd

Client Name: Mr. Constatin Fugger

Ministry Reference: APP-001593

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ABBREVIATIONS

Abbreviation	Description		
%	percentage		
>	greater than		
°C	degree celcius		
ARV	Antiretroviral therapy		
BID	background information document		
BoN	Bank of Namibia		
CITES	Convention on International Trade in Endangered Species of Wild Fauna and		
	Flora		
COVID-19	coronavirus disease of 2019		
dB	decibel		
DEA	Directorate of Environmental Affairs		
EAP	environmental assessment practitioner		
ECC	Environmental Compliance Consultancy (Pty) Ltd		
ECC	environmental clearance certificate		
EIA	environmental impact assessment		
EMP	environmental management plan		
EMA	Environmental Management Act No. 7 of 2007		
ENE	east northeast		
ESIA	environmental and social impact assessment		
GDP	gross domestic product		
HIV/AIDS	Human immunodeficiency virus/ acquired immune deficiency syndrome		
I&APs	interested and affected parties		
IFC	International Finance Corporation		
IPPR	Institute for Public Policy and Research		
IUCN	International Union for Conservation of Nature		
kWh	kilowatt per hour		
km	kilometre		



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Abbreviation	Description
Km ²	square kilometre
Km/h	Kilometre per hour
kV	kilovolts
MAWLR	Ministry of Agriculture, Water and Land Reform
MEFT	Ministry of Environment, Forestry and Tourism
mm	millimetre
NamPower	Namibia Power Corporation Ltd
NIHL	noise-induced hearing losses
NBRI	National Botanical Research Institute
NDP	National Development Plan
NPC	National Planning Commission
NNE	north northeast
NE	northeast
PPE	personnel protective equipment
PEPFAR	U.S. President's Emergency Plan for AIDS Relief
(Pty) Ltd	proprietary limited
PV	photovoltaic
SPLs	sound pressure levels
SNR	single number rating
ТВ	tuberculosis
UNCIEF	United Nations International Children's Emergency Fund
WHO	World Health Organisation

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1 INTRODUCTION

1.1 COMPANY BACKGROUND

Environmental Compliance Consultancy (Pty) Ltd (ECC) has been contracted by Waldeck (Pty) Ltd to undertake an environmental assessment process and develop an environmental management plan (EMP) for the proposed development and construction of a tourism and hunting lodge and associated infrastructure on Farm Waldeck No.28 in terms of the Environmental Management Act, No 7 of 2007 (EMA) and its regulations of 2012.

Waldeck (Pty) Ltd propose to upgrade Farm Waldeck No.28 by developing a tourism and hunting lodge. The envisioned works include construction of 6 accommodation units, a main common core area, two PV solar plants and two battery rooms, grey water treatment system, demolition of the current dilapidated farmhouse and construction of a new 4-bedroom farmhouse and staff accommodation units (12) and construction of a cold storage room and butchery.

The Proponent purchased a portion of Farm Iturea (a portion south of Farm Waldeck No.28), hence the boundary fence currently dividing the two farms will be removed and extended to include the purchased portion which will additionally be fenced with a game proof fence. In addition to Farm Iturea, the Proponent signed purchase contracts agreement with the landowners of Farm Dornbaum No.74 and Bethlehem No.27/Rem 3. These portions are south and southeast of Farm Waldeck No.28. Once these portions have been procured, fully transferred and acquisitioned, an amendment to the environmental clearance certificate will be launched with the competent authority (Ministry of Environment, Forestry and Tourism) which will take into account the impact assessment of any potential land developments. Similarly, the Proponent propose to upgrade the farms boundary with a 2.5 meters game proof fence. This is additional scope of work to what was initially proposed; hence these project specifics were not scoped in the background information document (BID) issued to I&APs and stakeholders.

Farm Waldeck No. 28 is located approximately 36 km south of Windhoek in the Windhoek Rural Constituency, Khomas Region, Namibia. The Project site can be accessed by driving south of Windhoek along the B1 road, turning and driving onto the D1463 district road for approximately 9 km. The farm location is shown in Figure 1.



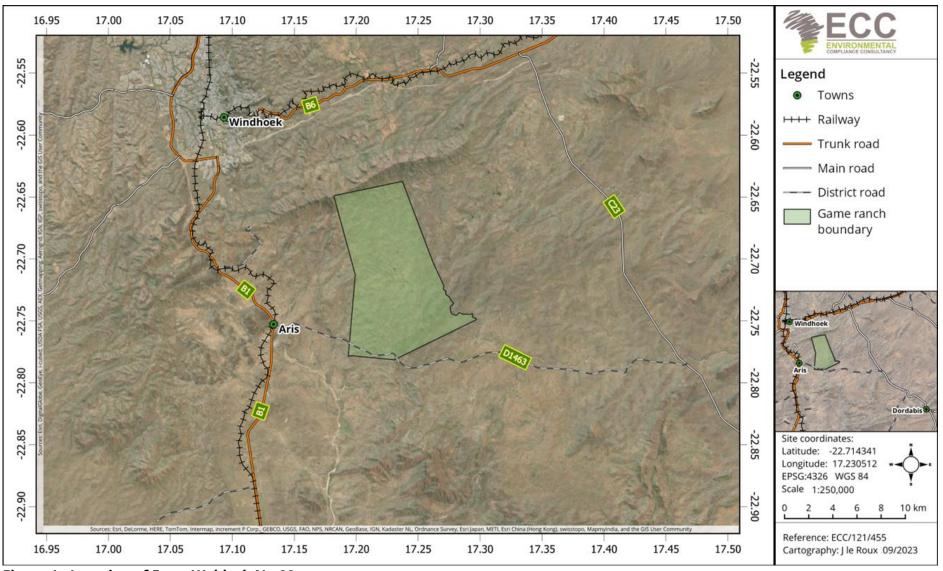


Figure 1 - Location of Farm Waldeck No.28

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1.2 Purpose of the scoping report

This report summarises the prescribed EIA process followed, provides a comprehensive project description, provides information on the baseline biophysical and socio-economic environments, identify the relevant laws and guidelines, provides details of the public consultation process, identify potential impacts and assess potential effects (whether positive or negative) and their relative significance, explore feasible and unfeasible alternatives that were considered for technical recommendations and identify appropriate mitigation measures.

The scoping report and impact assessment provide information to the public and stakeholders to aid in the decision- making process for the proposed Project by the competent authority.

The Ministry of Environment, Forestry and Tourism (MEFT) as the competent authority that deals with applications for environmental clearance has determined that an environmental management plan (EMP) (presented in Appendix A) be developed to provide a management framework for the planning and implementation of the development. The EMP provides development standards and arrangements to ensure that the potential environmental and social impacts are mitigated, prevented, minimised and/or enhanced as far as reasonably practicable and that statutory requirements and other legal obligations are fulfilled.

The scoping and impact assessment report, inclusive of the public inputs and comments and all appendices, will be submitted to the Ministry of Environment, Forestry, and Tourism (MEFT) - Directorate of Environmental Affairs (DEA) for a record of decision.

1.3 THE PROPONENT DETAILS

Table 1 below provides the Proponent's contact details.

Table 1- Proponent's details

Company Representative:	Contact Details:
Mr Constantin Fugger	Waldeck (Pty), Farm Waldeck No.28
	Dordabis, Khomas Region, Namibia
	P. O. Box 21012, Olympia, Windhoek
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	+26481 122 3233

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1.4 Environmental and social assessment practitioner

Environmental Compliance Consultancy (Pty) Ltd (ECC) (Reg. No. 2022/0593) has prepared this report and the EMP on behalf of the Proponent.

This report has been authored by ECC employees with no material interest in the report's outcome, ECC maintains independence from the Proponent and has no financial interest in the Project apart from fair remuneration for professional fees. Payment of fees is not contingent on the report's results or any government decision. ECC members or employees are not, and do not intend to be, employed by the Proponent, nor do they hold any shareholding in the Project. Personal views expressed by the writer may not reflect ECC or its client's views. The environmental report's information is based on the best available data and professional judgment at the time of writing. However, please note that environmental conditions can change rapidly, and the accuracy, completeness, or currency of the information cannot be guaranteed.

All compliance and regulatory requirements regarding this report should be forwarded by email or posted to the following address:

Environmental Compliance Consultancy P. O. Box 91193, Klein Windhoek, Namibia

Tel: +264 81 669 7608

Email: info@eccenvironmental.com

1.5 Environmental requirements

The Environmental Management Act, 2007, and its regulations, stipulates that an environmental clearance certificate is required before undertaking any of the listed activities that are identified in the Act and its regulations. Potential listed activities triggered by the Project are provided in Table 2.



Table 2 - Listed activities triggered by the proposed Project in terms of the Environmental Management Act, 2007

Listed activity	As defined by the regulations of the Act	Relevance to the project
Energy	The construction of facilities for:	- Two PV solar plants and 2 battery rooms will be constructed for
generation,		the lodge and will cater for a peak demand of 400 kWh and 100kWh,
transmission,	(1a) The generation of electricity.	respectively.
and storage		
activities	(1b) The transmission and supply of electricity.	
Waste	2.1 The construction of facilities for waste sites, and	- Septic tanks will be installed on site, where effluent will be treated
management,	the treatment and disposal of waste.	further in grey water treatment.
treatment,		- Waste generated on-site, including construction waste will be
handling, and	2.3 The importing, processing, use and recycling,	removed from site and disposed of at the Kupferberg landfill site.
disposal activities	temporary storage, transit, or exporting, of waste.	
Forestry activities	4. The clearance of forest areas, deforestation,	- Construction of the lodge has already commenced. Thus,
	afforestation, timber harvesting, or any other related	vegetation has been cleared for these areas. However, protected
	activity that requires authorisation in terms of the	tree species and trees larger than 18 cm in diameter will not be
	Forest Act, 2001 (No. 12 of 2001) or any other law.	cleared.
		-Vegetation will be cleared for the construction of the lodge
		infrastructure, PV solar plants and activities areas.
		- The Proponent contracted Namibia Landscapers to plant
		additional trees and rehabilitate the cleared areas under
		construction.
Water resource	8.1 The abstraction of ground or surface water for	- Water required for the project will be sourced from existing
developments	industrial or commercial purposes.	boreholes and pumped to reservoir of roughly 60 000 litres.
	8.5 Construction of dams, reservoirs, levees, and	- A waste treatment system will be constructed on site to treat
	weirs.	wastewater to an acceptable /useable standard (greywater).

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Listed activity	As defined by the regulations of the Act	Relevance to the project
Tourism	6. Construction of resorts, lodges, hotels or other	-The construction of 6 lodge units and a wellness centre, with a
development	tourism and hospitality facilities.	core area will consist of hard construction.
activities		-Construction of a staff village for employees who will be employed
		permanently during the lodge operation.
		- Construction of a new manager's house.
		- Demolition of current dilapidated farmhouse and construction of
		a new 4-bedroom farmhouse on same location.
Other activities	11.2 Construction of cemeteries, camping, leisure	- Construction of the lodge to offer game (trophy) hunting activities.
	and recreation sites.	

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2 APPROACH TO THE ASSESSMENT

2.1 Purpose and scope of the assessment

This assessment aimed at determining impacts that are likely to be significant. The available data is scoped to identify any gaps that need to be filled, enabling a determination of the spatial and temporal scope; and identify the assessment methodology.

The scope of the assessment was determined by undertaking a preliminary assessment of the proposed Project against the receiving environment, obtained through a desktop review and available site-specific literature.

2.2 THE ASSESSMENT PROCESS

The ESIA methodology applied to this assessment has been developed using the International Finance Corporation (IFC) standards and models, in particular, Performance Standard 1, 'Assessment and management of environmental and social risks and impacts' (International Finance Corporation, 2017) (International Finance Corporation, 2012), which establishes the importance of:

- Integrated assessment to identify the environmental and social impacts, risks, and opportunities of Projects;
- Effective community engagement through disclosure of Project-related information and consultation with local communities on matters that directly affect them; and
- The proponent's management of environmental and social performance throughout the life of the Project.

Furthermore, the Namibian Draft Procedures and Guidance for ESIA and EMP (Republic of Namibia, 2008), as well as international and national best practice, and over 25 years of combined EIA experience (EAPs CV's are presented in Appendix E), were also drawn upon in the assessment process. This impact assessment is a formal process in which the potential effects of the Project on the biophysical, social, and economic environments are identified, assessed, and reported so that the significance of potential impacts can be taken into account when considering whether to grant approval, consent, or support for the proposed Project. The process followed, through the assessment, is illustrated in Figure 2.

2.3 SCREENING OF THE PROJECT

The first stages in the ESIA process are to register the Project with the DEA/MEFT and to undertake a screening exercise to determine triggered listed activity under the Environmental Management Act, No. 7 of 2007 and associated regulations. The location, scale, and duration of Project activities will be considered against the receiving environment.



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The proposed Project is a listed activity and potential impacts could occur. Thus, it was concluded that a scoping report with impact assessment is required for project and that a preliminary EMP would be submitted with the scoping report as part of the application process for the environmental clearance certificate.



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1. Project screening

Complete

The first stages in the ESIA process are to undertake a screening exercise to determine whether the Project triggers listed activities under the Environmental Management Act, 2007, and its regulations. The screening phase of the Project is a preliminary analysis, in order to determine ways in which the Project might interact with the biophysical, social, and economic environments.

Stakeholder engagement:

- · Registration of the project
- · Preparation of the BID

2. Establishing the assessment scope

Complete

Where an ESIA is required, the second stage is to scope the assessment. The main aim of this stage is to determine which impacts are likely to be significant; to scope the available data and any gaps that need to be filled; to determine the spatial and temporal scope; and to identify the assessment methodology.

The scope of this assessment was determined through undertaking a preliminary assessment of the proposed Project against the receiving environment. Feedback from consultation with the public and the Proponent informs this process. The following environmental and social topics were scoped into the assessment, as there was the potential for significant impacts to occur. Impacts that are identified as potentially significant during the screening and scoping phase are taken forward for further assessment in the ESIA process. These are:

SOCIOECONOMIC ENVIRONMENT

- Employment
- Noise

BIOPHYSICAL ENVIRONMENT

- Groundwater
- · Biodiversity Fauna
 - Flora
 - Avifauna

The following topics were scoped out of the ESIA, and they are therefore not discussed further in this report.

 An assessment of safety impacts or risks associated with developing the project are not included within the scope of the assessment and will be addressed by the Proponent in a specific safety management plan.

3. Baseline studies

Complete

A robust baseline is required, in order to provide a reference point against which any future changes associated with a Project can be assessed, and to allow suitable mitigation and monitoring to be identified.

The region and general area have been studied for various projects and assessments. This literature was available to be referenced. The Project site-specific area has been studied as part of the ESIA process, and the following has been conducted as part of this assessment:

- · Desktop studies; and
- · Consultation with stakeholders

The environmental and social baselines are provided in the scoping study.



5. Impact identification and evaluation 4. Scoping report and EMP 6. Draft & Final EIA and EMP Complete Complete This stage The scoping report documents the findings of the The key stage of the ESIA process is the impact All comments received during the I&AP public review period current process and provides stakeholders with an identification and evaluation stage. This stage is the will be collated in an addendum report, which will opportunity to comment and continue the process of bringing together project characteristics with accompany the final ESIA report when submitted to the the baseline environmental characteristics, and consultation that forms part of the environmental MME and MEFT: DEA. All comments will be responded to, assessment. The EMP provides measures to ensuring that all potentially significant environmental either through providing an explanation or further information in the response table, or by signposting where manage the environmental and social impacts of the and social impacts are identified and assessed. It is an proposed Project, and outlines the specific roles and iterative process that commences at project inception, information exists, or where new information has been responsibilities required in order to fulfil the plan. included in the ESIA report or appendices. Comments will be and ends with the final design and project implementation. The impact identification and considered, and where they are deemed to be material to This scoping report focuses on describing the ESIA evaluation stages will be updated in the assessment the decision-making, or might enhance the ESIA, they will be process, project description, baseline description incorporated. phase. and Terms of Reference for the assessment phase. The final design of the proposed Project will be The final ESIA report, appendices, and the addendum This report will be issued to stakeholders and I&APs assessed, along with alternatives that were considered report, will be available to all stakeholders, and all I&APs will for consultation, for a period of 7 days, meeting the during the design process in accordance with the be informed of its availability for review. mandatory requirement as set out in the Environmental Management Act, 2007. Section 6 in Environmental Management Act, 2007. The aim of this report sets out the assessment methodology to be The ESIA report, appendices and addendum will be formally this stage is to ensure that all stakeholders and used to assess the Project against the environmental submitted to the competent authority (MME) and the MEFT: I&APs have an opportunity to provide comments on and social baselines that would be affected. DEA as part of the application for an environmental the assessment process, and to register their clearance certificate. concerns, if any. 8. Monitoring and auditing 7. Authority assessment and decision **Future Phase** Future Stage In addition to the EMP being implemented by the Proponent, a monitoring strategy The Environmental Commissioner, in consultation with other relevant authorities, and audit procedure will be determined by the Proponent and competent authority. will assess if the findings of the ESIA presented in the report are acceptable. If This will ensure key environmental receptors are monitored over time to establish deemed acceptable, the Environmental Commissioner will revert to the Proponent any significant changes from the baseline environmental conditions, caused by with a record of decision and recommendations. Project activities

Figure 2 – EIA process and stages completed

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2.4 SCOPING AND THE ENVIRONMENTAL ASSESSMENT

Where a detailed assessment is required, the second stage is to scope the assessment. The main aims of this stage are to determine which impacts are likely to be significant; scope the available data and any gaps which need to be filled; determine the spatial and temporal scope and identify the assessment methodology.

The scoping phase of the Project is a preliminary analysis to determine ways in which the Project interacts with the biophysical, social, and economic environment. Potential impacts are identified, and the significance is assessed during the screening and scoping phase. Feedback from consultation with the proponent informed the analysis of the impacts. The details and outcome of the impact assessment are discussed in sections 6 and 7 of this report. The following environmental and social aspects were considered in the impact assessment process:

BIOPHYSICAL ENVIRONMENT

- Air quality;
- Ground water:
- Surface water;
- Soils and geology;
- Fauna;
- Avifauna;
- Flora; and
- Topography and landscape.

SOCIO-ECONOMIC ENVIRONMENT

- Community health, safety and security on and off site;
- Ambient noise; and
- Employment opportunities.

2.5 BASELINE STUDY

Baseline studies are undertaken as part of the scoping stage, which involves collecting all pertinent information from the status of the receiving environment. This provides a baseline against which changes that occur as a result of the proposed Project can be measured. For the proposed Project, baseline information was obtained through a desktop study, focusing on environmental receptors that could be affected by the proposed Project, and verified through site-specific information. The baseline information is covered in Chapter 5.

2.6 Public consultation

Public participation and consultation are a requirement stipulated in Section 21 of the Environmental Management Act, 2007 and its regulations, for a project that requires an



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environmental clearance certificate. Consultation is a compulsory and critical component of the ESIA process for achieving transparent decision-making and can provide many benefits. Consultation is ongoing during the EIA process.

The objectives of the public participation and consultation process are to:

- Provide information on the Project, and introduce the overall Project concept and plan in the form of a background information document (BID) (provided in Appendix B);
- Determine the relevant government, regional and local regulating authorities;
- Listen to and understand community issues, record concerns, and guestions;
- Explain the process of the EIA and timeframes involved, and
- Establish a platform for ongoing consultation.

A summarised list of stakeholders that were engaged during the public consultation process is given below:

- The general public with an interest in the Project;
- Regional and local authorities;
- Relevant line Ministries (MEFT and MAWLR); and
- The neighbouring farming community.

A stakeholder mapping exercise was undertaken during the initial scoping phase to identify individual or groups of stakeholders, and the method in which they are to be engaged with during the EIA process. Stakeholders and potentially interested and affected parties were engaged with through direct communication (letters and phone calls), the national press, site notices, and directly by email Farms sharing boarders with Farm Waldeck No.28 were identified as directly affected during the initial stakeholder mapping exercise. The following directly affected farmers were identified during the stakeholder mapping exercise:

- Farm Unkenfels No. 73;
- Farm Gocheganas No. 26 Rem;
- Farm Aris No. 29;
- Farm Klein Windhoek No. 70; and
- Farm Paulinehof No. 492 Rem.

Once the Proponent has procured, secured title deeds and property rights, additional scope of work entails extension of the Project footprint to include Farm Bethlehem No.27/Rem 3 and Farm Dornbaum No.74. This will entirely be subject to an ECC amendment application and impact assessment study.

Figure 3 provides a visual overview of farms sharing boarders with Farm Waldeck No.28.



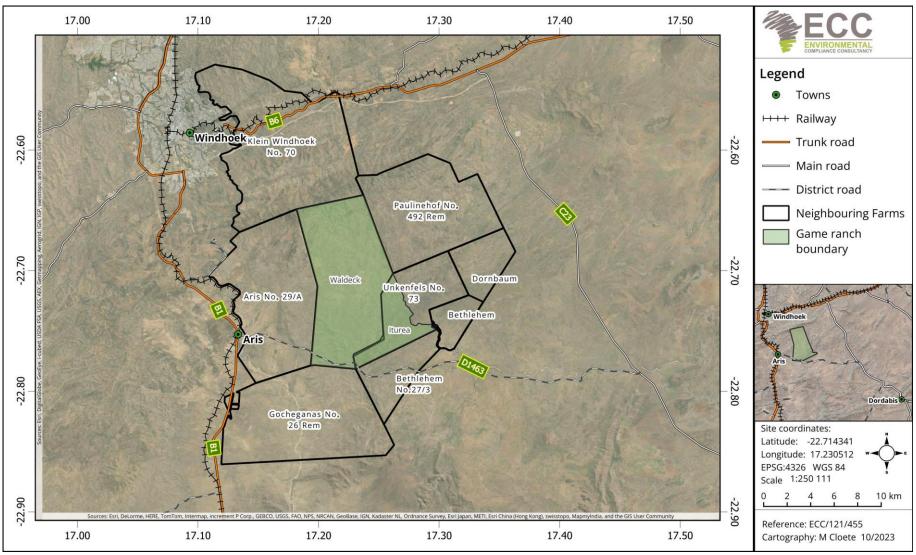


Figure 3 - Farms surrounding Farm Waldeck No.28

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2.6.1 NON-TECHNICAL SUMMARY

The BID presents a high-level description of the proposed Project, sets out the EIA process, and outlines when and how consultation will be undertaken. It also provides contact details for further Project-specific inquiries to all registered I&APs. The BID was distributed to registered I&APs with exclusive additional project activities details that were proposed at a later stage (i.e., the expansion of the farm boundary to include the purchased portion of Farm Iturea and the contractual purchase agreement agreed between the Proponent and the landowners of Farm Bethlehem No.27/Rem 3 and Dornbaum No.74). The BID is provided in Appendix B

2.6.2 NEWSPAPER ADVERTISEMENTS

Public consultation and IAPs registration for the Project commenced on the 26th of June 2023. Upon publication of the first public notice, adverts were placed across three national newspapers (The Republikein, Namibian Sun and Allgemeine Zeitung). The second newspaper advert was published on the 3rd of July 2023. The purpose of this was to commence with the public engagement process by informing the public and potential I&APs to register with the project. Newspaper adverts records are provided in Appendix C.

2.6.3 SITE NOTICES

Neighbouring farms were notified about the proposed project. Records of site notices placed on site are presented in Appendix C.

2.6.4 PUBLIC MEETING

In terms of section 22 of the Environmental Impact Assessment Regulations of 2012, the EAP maintained a register for all potentially interested and affected parties (IAPs). The EAP engaged directly with stakeholders and invited all registered I&APs to raise their concerns and submit comments in writing.

2.6.5 SUMMARY OF ISSUES RAISED

The I&APs were encouraged to provide constructive inputs during the public consultation period. Comments and EAP responses received on the BID received during the initial public consultation process are provided in Table 3. To ensure that interested and affected parties can comment further on the scoping and impact assessment report, the report was circulated with potentially interested and affected parties and stakeholders for a 7-day review period in terms of section 23 (1) of the 2012 EMA regulations. Comments, questions, or areas of concern raised by registered IAPs during the scoping report and impact assessment report public review period are addressed in the addendum report (Appendix F).



Table 3 - Feedback on concerns and comments raised by stakeholders and IAPs

Stakeholder name and details	Comments or questions received	Response or clarification
Farm Neu-Brack No.454	Our concern is that the natural flow of the Schaaprivier will be affected by building dams, which could result in a shortage of water to all the farmers downstream.	The Proponent is committed to engage in safe water management practises. - No new earth dams will be constructed. Instead, the Proponent propose to abstract water from two existing boreholes on preplanned schedules to six 10 000 litres reservoir tanks. Abstraction rates and water level records will be monitored closely for irregular trends. - There are two dams on the farm, therefore overflow from the storage reservoir tanks will be pumped to the dams as top-up. No water will be pumped directly from the boreholes into the dams. - The water abstraction risks on lowering groundwater for downstream communities acknowledged and are discussed in detail in Chapter 7, section 7.5, page 76-79.
Liza Burmeister	Our main concern is the Schaff-River in	The Proponent is committed to engage in safe water
Moltkeblick Game Farm	the area, which also feeds our Water Supply. This River should not be closed off at all, as this means we also get cut off	management practises. -No new dams will be constructed.

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Stakeholder name and details	Comments or questions	Response or clarification
	should this happen. Should there be other concerns, we will bring it to your attention.	 -Abstraction will be from two existing boreholes which will be monitored regularly as per the requirement of the EMP. -The potential risk of lowering groundwater for downstream communities due to abstraction is discussed in chapter 7, section 7.5, page 76-79.
Ms. Helmi Hitula Farm Tew No. 84, and Manager of Carneba Trading Auas Safari Lodge	Our main concern is the Schaff-River in the area, which also feeds our Water Supply. This River should not be closed off at all, as this means we also get cut off should this happen. Should there be other concerns, we will bring it to your attention.	-Noted, thanks. The above comment refers.
Michael Adler Carneba cc t/a Auas Safari Lodge (Owner)	The possibility of cutting off of the water supply to our farm from the Schaff River. This river is a critical source of water supply to our farm and we cannot afford to lose this vital resource.	 -The Proponent is obligated to maintain abstraction records and water levels to closely monitor irregular trends. The mitigation management measures are discussed in detail in the EMP. -The Proponent will not construct new dams on the farm. Water will be sourced from two existing boreholes and excess water will be pumped to the two existing dams. Furthermore, water will only be abstracted as required. -The potential risk of lowering groundwater for downstream communities due to abstraction is discussed in chapter 7, section 7.5, page 76-79.
Sandra Rattay	Water Consumption and Dams	-The Project's water consumption specifications are discussed in chapter 4, section 4.5, page 38.



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Stakeholder name and details	Comments or questions received	Response or clarification
	received	
Private		-No new dams will be constructed by the Proponent.
		-The potential risk associated with excessive abstractions on
		lowering groundwater for downstream communities is
		discussed in chapter 7, section 7.5, page 76-79 and the safe
		water management measures are discussed in the EMP.

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3 REVIEW OF LEGAL ENVIRONMENT

3.1 Relevant national legislation

This chapter outlines the regulatory framework applicable to the proposed Project. A thoroughly review of relevant legislation has been conducted for the proposed Project. Table 4 below provides identified relevant legal requirements specific to the Project and Table 5 lists specific permits that will be required for the Project.



3.2 National regulatory framework

Table 4 - Details of the regulatory framework as it applies to the Project

National regulatory framework	Summary	Applicability to the project
Constitution of the Republic of Namibia	The constitution defines the country's position in relation	The Proponent is committed to the
(1990)	to sustainable development and environmental	sustainable use of the environment and has
	management.	aligned its corporate mission, vision, and
		objectives with the Constitution of the
	The constitution refers that the state shall actively	Republic of Namibia (1990).
	promote and maintain the welfare of the people by	
	adopting policies aimed at the following:	The Proponent is also committed to actively
	"Maintenance of ecosystems, essential ecological processes	engage with the local community to
	and biological diversity of Namibia, and the utilisation of	promote and maintain the welfare of the
	living, natural resources on a sustainable basis for the	people affected by the Project.
	benefit of all Namibians, both present, and future."	
Environmental Management Act, (No. 7	The Act aims to promote sustainable management of the	Tourism related developmental projects are
of 2007) and its regulations, including	environment and use of natural resources. The Act	listed activities which require an
the Environmental Impact Assessment	requires certain activities to obtain an environmental	environmental clearance certificate prior to
Regulation, 2007 (No. 30 of 2012)	clearance certificate prior to Project development.	any developments.
	The Act states that an EIA should be undertaken and	This environmental scoping report (and
	submitted as part of the environmental clearance	EMP) documents the findings of the
	certificate application process.	environmental assessment undertaken for
		the proposed project.

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National regulatory framework	Summary	Applicability to the project
	The MEFT is responsible for the protection and	
	management of Namibia's natural environment. The	The process has been undertaken in line
	Department of Environmental Affairs, under the MEFT, is	with the requirements under the Act and its
	responsible for the administration of the EIA process.	regulations.
Water Resources Management Act	The Water Resources Management Act No.11 of 2013	The Act stipulates obligations to prevent
No.11 of 2013	was promulgated in August 2023.	pollution of water. Should wastewater be
		discharged, a permit is required. The EMP
	The Act provide for the management, protection,	sets out measures to avoid polluting the
	development, use and conservation of water resources.	water environment.
	The Act set water pollution control mitigation measures	
	and regulations to provide for incidental matters.	The proposed project intends to treat all
		wastewater to acceptable greywater
	The Department of Water Affairs, within the Ministry of	minimising the potential risk of
	Agriculture, Water and Land Reform (MAWLR), is	groundwater and surface water pollution.
	responsible for the administration of the Act.	The required/recommended mitigation
		measures are stipulated in the EMP.
		The project area falls within the
		groundwater control area. Abstraction of
		water from boreholes requires an
		abstraction permit. Abstraction rates need
		to be measured and reported to the
		authorities by following the requirements of
		the permit.





National regulatory framework	Summary	Applicability to the project
Soil Conservation Act, No. 76 of 1969	This Act makes provision for the prevention and control	The Project entails clearing of vegetations
	of soil erosion, and for the protection, improvement, and	and land portions. Soil and vegetation
	conservation of soil and vegetation.	conservation measures will be included in
		the EMP.
The Forestry Act, No. 12 of 2001 as	Section 22 deals with the protection of natural	The Project activities may require limited
amended by the Forest Amendment	vegetation that is not part of the surveyed erven of a	land clearing where necessary.
Act, No. 13 of 2005	local authority area as defined.	
		When the need arises to remove certain
	Section 21 states that no person shall cut, destroy, or	protected species, the Proponent will
	remove vegetation that is growing within 100 metres of a	ensure that all required permits are in
	river, stream, or watercourse.	place.
	Section 23 requires a permit from the Director for the	
	clearance of vegetation on more than 15 hectares on any	
	piece of land or several pieces of land situated in the	
	same locality as that which has predominantly woody	
	vegetation; or cut or remove more than 500 cubic metres	
	of forest produce from any piece of land in a period of	
	one year.	
Animal Health Regulations: Animal	"The Act provides for the protection, prevention,	A butchery will be constructed on Farm
Health Act, 2011 Under Section 32 of	detection and control of animal disease; Maintenance	Waldeck. The Act and its regulations are
the Animal Health Act, 2011 (Act No. 1	and improvement of animal health".	relevant to operating a butchery and
Of 2011)		ensuring animal health.





National regulatory framework	Summary	Applicability to the project
Animals Protection Act 71 of 1962	The Act provides for the consolidation and	Due to the nature of the Project, it is
	amendment of the laws relating to the prevention of	essential that ethical treatment and hunting
	cruelty to animals".	of game is promoted.
Controlled Wildlife Products and Trade	The Act makes provision for the implementation of	Due to the nature of the project, it is
Act 9 of 2008	the Convention on International Trade in Endangered	essential that the relevant permits are in
	Species of Wild Fauna and Flora; and to provide for	place for hunting, importing and exporting
	incidental matters".	of animal products.
Arms and Ammunition Act No. 7 of	The Act provides for the control over the possession	All firearms should have valid licences.
1996.	of arms and ammunition; to regulate the dealing in,	People involved in game shooting activities
	importation, exportation and manufacture of, arms	should be competent and trained in
	and ammunition; and to provide for incidental	firearms handling.
	matters".	
Nature Conservation Ordinance Act No.	The Act makes provision for the conservation and	Relevant permits relating to hunting and
4 of 1975 and its regulations.	management of wildlife and regulates fishing in inland	biodiversity should be obtained from
	waters. The text consists of 91 sections divided into 7	competent authorities. Most permit
	Chapters and completed by 9 Schedules. The Chapters	applications must be launched with MEFT.
	are the following: Preliminary (I); Game Parks and	Application forms can be downloaded from
	Nature Reserves (II); Wild animals (III); problem	the following link:
	animals (IV); Fish in inland waters (V); Indigenous	https://www.wrnam.org/permits
	plants (VI); general (VII). The Nature Conservation	
	Board shall be continued under section 3. The Cabinet	A detailed account on the relevant required
	may appoint Nature Conservator.	permits for the Project are provided in Table 5.



National regulatory framework	Summary	Applicability to the project
Namibia Tourism Board Act (No. 21 of 2000) and Regulations relating to levy payable by accommodation establishments: Government Notice 137 of 2004	The Act provides for the establishment of the Namibia Tourism Board and to provide for its functions; to provide for the registration and grading of accommodation establishments; to provide for the declaration of any sector of the tourism industry as a regulated sector and for the registration of businesses	The Proponent will have to apply for a licence from the Namibia Tourism Board.
	falling within a regulated sector, and to provide for matters incidental thereto.	

Table 5 -Permits/licences required for the Project

Permit or licence	Act / Regulation	Related activities requiring permits	Relevant Authority
Environmental clearance	Environmental Management Act,	Required for all listed activities shown in	Ministry of Environment,
certificate	No. 7 of 2007.	Chapter 1, Table 2.	Forestry and Tourism (MEFT)
Water abstraction permit	In terms of Section 44 of the Water	The Project area falls within a	Ministry of Agriculture, Water
	Resources Management Act No.11	groundwater control area. An	and Land Reform
	of 2013	abstraction permit is required for the	
		abstraction of water from a borehole for	
		commercial purposes.	
Wastewater treatment and	In terms of Section 72 of the Water	A licence to discharge effluent or to	Ministry of Agriculture, Water
discharge permit	Resources Management Act No.11	construct or operate a wastewater	and Land Reform (MAWLR)
	of 2013	treatment facility or a waste disposal	
		site is required.	





Permit or licence	Act / Regulation	Related activities requiring permits	Relevant Authority
Vegetation clearing	The Forest Act, 2001 (Act No. 12 of	This Act governs the removal of	Ministry of Environment,
	2001).	vegetation within 100 m of a water	Forestry and Tourism (MEFT)
		course, or removal of more than 15ha of	
		woody vegetation, or the removal of any	
		protected plant species. A vegetation	
		clearing permit is required prior to the	
		removal of any protected, threatened,	
		critically threatened or endangered	
		species.	
Registration of accommodation	Namibia tourism Board Act No. 21	Section 20 of the Act states that	Namibia Tourism Board
establishment	of 2000.	accommodation establishment should	
		be registered with the Board.	
Hunting permit	A hunting permit is required in	Hunting permits will be required for the	Ministry of Environment,
	terms of Section 30 and 36 of the	hunting of protected game and huntable	Forestry and Tourism (MEFT)
	Nature Conservation Ordinance Act	game (i.e, if planned to hunt more	
	No.4 of 1975.	animals than allocated under the yearly	
		hunting regulations). For predator	
		trophy hunting, cheetah and leopard an	
		additional hunting permit has to be	
		obtained prior to the start of the hunt.	
Permit to utilize game (wild	In terms of Section 40 of the Nature	A permit needs to be applied for any	Ministry of Environment,
animals)	Conservation Ordinance Act No.4 of	of the following reasons: shoot and	Forestry and Tourism (MEFT)
	1975.	sell, shoot for own use, keep and sell,	
		transport, night culling, trophy meat,	



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Permit or licence	Act / Regulation	Related activities requiring permits	Relevant Authority
		catch, keep and sell and trophy	
		hunting.	
Registration of game proof	in terms of Section 40 of the Nature	A requirement related to conditions of	Ministry of Environment,
fence	Conservation Ordinance Act No.4 of	catching, capturing and killing wild	Forestry and Tourism (MEFT)
	1975.	animals.	
Game import and export	In terms of Section 49(1) of the	A permit is required to import into	Ministry of Environment,
permit	Nature Conservation Ordinance Act	Namibia or export from Namibia any	Forestry and Tourism (MEFT)
	No. 4 of 1975.	game or wild animal, raw skin or raw	
		meat of any game.	
Registration of hunting guides	In terms of Section 84 of the Nature	If not currently registered, Professional	Ministry of Environment,
and master hunting guides	Conservation Ordinance Act No.4 of	hunters should be registered with MEFT.	Forestry and Tourism (MEFT)
	1975.		



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4 PROJECT DESCRIPTION

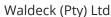
4.1 Proposed Project overview

The Proponent (Waldeck (Pty) Ltd) propose to develop a tourism and hunting lodge approximately 36 km south of Windhoek on Farm Waldeck No.28. The Project entails the constructing of 6 accommodation units (2 double units and 4 single units), main common core area consisting of a restaurant, wellness centre (gym), sauna and therapy room, boma area lounge, bar, dining area, cellar, media room, public bathrooms, offices, laundry, an activities area, butchery, cold storage facility and storerooms. A staff village will be constructed to accommodate 12 staff employees required during the operational phase. As an alternative energy source, the Proponent further plan to construct two PV solar plants and two battery room to cater for a peak demand of 400 kWh and 100 kWh, respectively. The dilapidated farmhouse has been demolished and a new 4-bedroom farmhouse will be constructed. Furthermore, the Proponent purchased a portion of Farm Iturea, hence the farm boundary will be extended by opening the game- proof fence that is currently dividing the two farms (Figure 4). Further works entail renovation of the game – proof fence around the farm to a height of approximately 2.5 metres. All Project works fall within the boundaries of Farm Waldeck No.28.

4.2 NEED FOR THE PROJECT

Namibia is a unique tourist destination due to its various popular geological features, its diverse wildlife populations and attraction sites across the country. The tourism and hunting industries are both big contributors to Namibia's Gross Domestic Product (GDP). Tourism play an important part in the socioeconomics and conservation model of the country. However, these two sectors suffered greatly as a result of the COVID-19 and its implicatory ban on international travels. In the aftermath of the pandemic, more and more countries gradually reopened their borders for international travels which lessened a bit of pressure on these sectors in Namibia. According to the MEFT (2023), tourism and international arrivals in Namibia increased by 98.1% from 232 756 (2021) to 461 027 (2022), thereby accounting for a 28.9% recovery level from the annual tourist arrival of 2019, before the COVID-19 pandemic.

New tourism and hunting projects will be beneficial in the sense that it attracts tourists and hunters to the country and will also result in the creation of local employment opportunities. The project of this scale has on average created about 107 jobs during the construction phase and will create approximately 12 on-site permanent jobs during the operational phase.





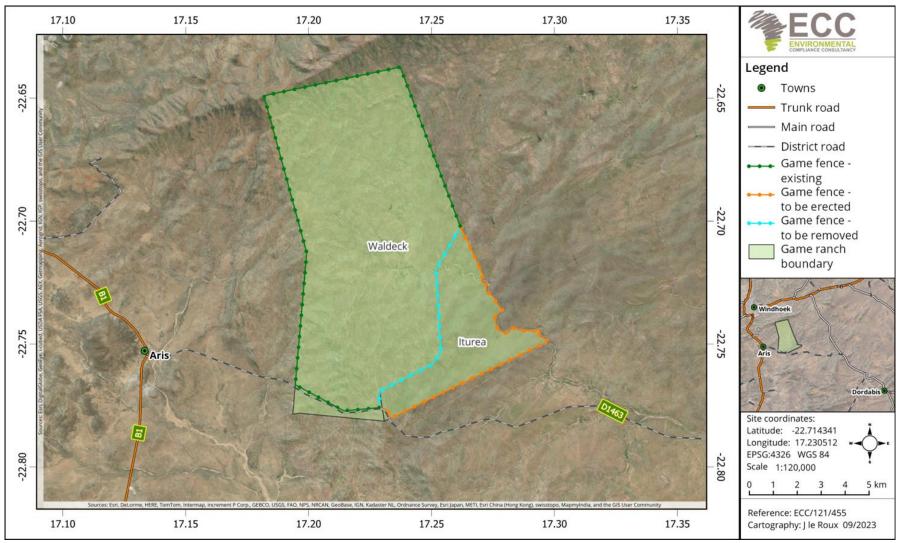


Figure 4 -Game fence map for Farm Waldeck No.28 and Iturea portion



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4.3 ALTERNATIVES CONSIDERED

Best practice environmental assessment methodology calls for consideration and assessment of alternatives to the project. In terms of the Environmental Management Act, No. 7 of 2007 and its regulations, alternatives considered should be analysed. This requirement ensures that during the design evolution and decision-making process, potential environmental impacts, costs, and technical feasibility have been considered, which leads to the best option(s) being identified.

The proponent is the owner of Farm Waldeck No.28, thus, no alternative localities have been considered for the proposed project.

During the assessment, alternatives will consider optimisation and using eco-friendly solutions to reduce potential impacts e.g., lead-free ammunition, renewable energy and water recycling etc.

4.4 Proposed Project infrastructure Layout

The following infrastructure will be constructed on- site; some are near completion:

- 6 accommodation units (2 double units and 4 single units);
- Main common core area (consisting of a restaurant, wellness centre (gym), sauna and therapy room, boma area lounge, bar, dining area, cellar, media room, public bathrooms, offices, laundry and storerooms);
- Dirt routes connecting different lodge units;
- Two PV solar plants and 2 battery rooms;
- Lodge water reservoir tanks;
- Full sewage collection system and bubbler greywater treatment system;
- Extension of the farm boundaries to include the purchased portion of Farm Iturea;
- Erection of a 2.5 meters game proof fence around the entire game farm (Figure 4); and
- Construction of the lodge staff village, manager's house and new farmhouse.

The overall Project infrastructure layout is provided in Figure 5 below.



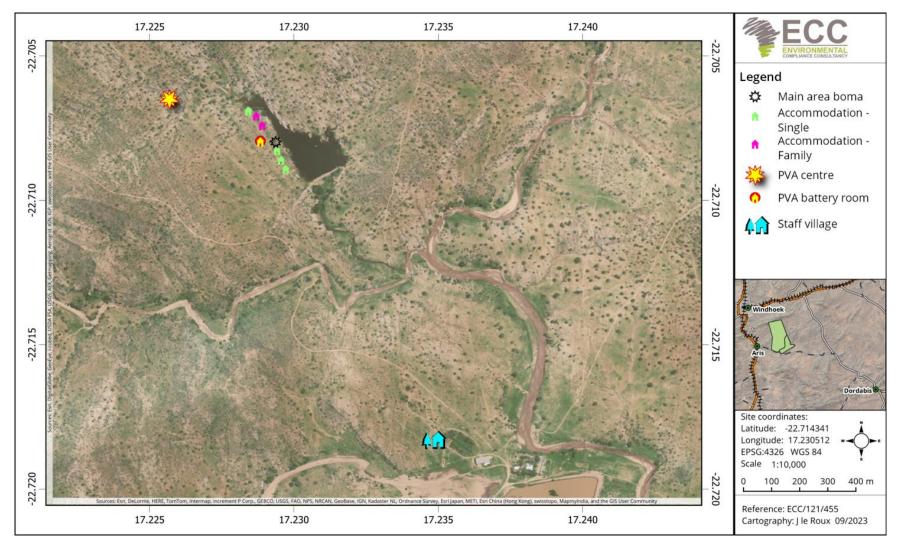


Figure 5 -Lodge infrastructure layout

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4.5 WATER SUPPLY

Water required during the lodge operations will be sourced from two existing boreholes on the farm. Water will be pumped to six 10 000 litres JoJo plastic reservoir tanks at the construction site to meet an estimate demand of between 6000 to 10 000 litres per day. No new dams will be constructed, however there are two existing dams on the farm and will be filled up with overflow from the storage tanks to ensure water is used efficiently and sparingly. Water abstracted from boreholes will not be pumped directly into the dams. During operations, between 9000 to 12 000 litres of water per day will be required.

The Project is within a groundwater control area; therefore the Proponent will be responsible to apply for legalisation of existing boreholes (if not registered) and abstraction permits at the MAWLR.

4.6 POWER SUPPLY

There is a 66 kV NamPower overhead power grid overhanging over the proposed lodge site. There won't be a powerline upgrade to the lodge. Instead, the Proponent intent to use three 4.5 kVA generators to supply energy required during the construction phase. Generators will supply energy required for the Project until two PV solar plants and 2 battery rooms are fully installed and operational. The solar plants will supply energy required for the lodge operations (peak energy demand is estimated to be 400 kWh) and the back of house staffing area (peak energy demand is estimated to be 100kWh).

4.7 SEWAGE AND SOLID WASTE

Septic tanks will be installed on site during the construction phase and will be emptied and removed after construction. A 2000 litres plastic septic tank will be constructed on site, whereby overflow will be directed to a bubbler grey water treatment system which ultimately will treat wastewater through aeration, bacterial supply and filtering process to greywater standards. The effluent water will have to be tested yearly to ensure that the water conforms to the relevant regulations and standards. The system's built-in pumps will pump water away from the source to a flat area that is approximately 100 metres above the lodge. The clean grey water will then be used for irrigation purposes and overflow will be pumped into a soakaway system.

The Proponent will also be responsible to ensure that effluent discharge permits are in order (to be launched with MAWLR). A fat trap will be installed in the kitchen and will be cleaned regularly or monthly to prevent contamination into the bubbler system, thus killing the bacteria and thus improving the efficiency of the system.



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There will be a compost heap for food waste generated during the operational phase. The Proponent will commit to contracting an external waste collecting company to collect waste generated on site on a regular basis. Furthermore, waste generated on-site, including construction waste will be removed from site and disposed off at the Kupferberg landfill site.

A visual example of the bubbler grey water treatment system (similar to what has been proposed) is provided in Figure 6 below.

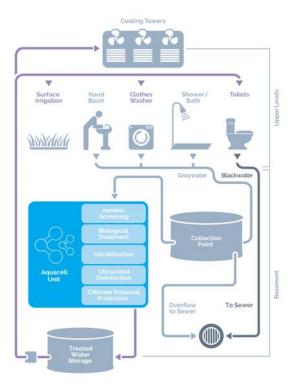


Figure 6 - Greywater treatment system

4.8 Proposed stages of the Project

4.8.1 CONSTRUCTION PHASE

Construction of the 6 accommodation units has already commenced and nearing completion. Contractors have camped on site, close to the farmhouse.

The following vehicles and ancillary equipment are currently on site:

- 1x 3 ton truck;
- Telehandler;
- Concrete batch mixer truck;
- 4x concrete mixers;
- 4x jackhammers;
- 4x concrete pokers;
- Site pick -up bakkie;



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- Tipper truck;
- Excavator
- Bulldozer;
- JCB; and
- 3x Generators.

The following surrounding farms will share boarders with the current game proof fence:

- Farm Unkenfels No.73: located southeast of the Iturea portion, game proof fence will cover a distance of approximately 8km;
- Farm Paulinehof No.492: located east of Farm Waldeck No.28, game proof fence is expected to cover approximately 9km;
- Farm Gocheganas No.26: located south of Farm Waldeck No.28, game proof boarder fence length is expected to be approximately 4km;
- Farm Aris No.29: located to the west of Farm Waldeck No.28, game fence expected to stretch for approximately 14 km; and
- Farm Klein Windhoek No.70; located north of Farm Waldeck No.28, game proof fence is expected to cover a length of approximately 6km.

4.8.2 OPERATIONAL PHASE

The proposed Project is envisioned to be a fully functional hunting and tourism lodge, that will aim to provide tourists and hunting enthusiasts with a luxury African hunting and lodging experience. No other tourism-related or recreational activities will be offered. It is estimated that 12 locally sourced employees will be recruited to assist during operations. Hunting expeditions on the farm will be conducted and guided strictly by the appointed professional hunters.



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5 ENVIRONMENTAL AND SOCIAL BASELINE

Desktop studies relevant to the project formed part of the current environmental assessment conducted for the Project. Baseline studies aim to assess possible project impacts (positive, negative and cumulative), thus ensuring input into the project designs, which avoid, reduce or mitigate the potentially adverse environmental and social risks.

This section provides an overview of the existing biophysical environment through the analysis of the available baseline data regarding the receiving environment. Desktop studies, followed by site data verification on the national database are undertaken as part of the scoping process to get information about the current status of the receiving environment. This provides a baseline where changes that occur as a result of the proposed project can be measured and assessed.

5.1 CLIMATE

Farm Waldeck No.28 is located to the southeast of Windhoek in the Khomas Region, Namibia. The Project area is associated with mild summers and cold winter, with mean daily maximum temperatures ranging between 21 °C and 31 °C and mean minimum temperatures between 6 °C and 19 °C (Meteoblue, 2023). The hottest months are from November to February, whilst cold months are from April to August (Figure 7). Rainfall is limited to the summer months (October to March), with average records between 10 mm and 120 mm (Figure 7) (Meteoblue, 2023). However, Bubenzer (2002) state that in the past decades, the central regions received average annual rainfall between 300 mm to 350 mm and potential evaporation between 3000 mm and 3200 mm. February is considered to be the most humid month with relative humidity of approximately 56%, which drop relatively below 20% towards the winter months (Figure 7).

Additional climate and weather data for Farm Iturea (-22.755852°, 17.261323°) have been used as reference to give the most accurate data for the Project area. Average wind speed over the greater Windhoek Rural district range between >1 to 38 km/h (Figure 8) (Meteoblue, 2023). Generally, intense winds are associated with the summer, with north northeast (NNE), northeast (NE), east northeast (ENE) observed as most dominant over the greater Windhoek area (Figure 8) (Meteoblue, 2023). Light intense winds prevail from all different directions (Figure 8).



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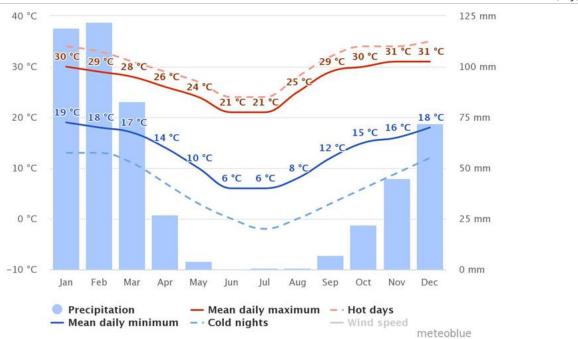


Figure 7 -Yearly climate overview for Farm Waldeck No.28 (Meteoblue, 2023)

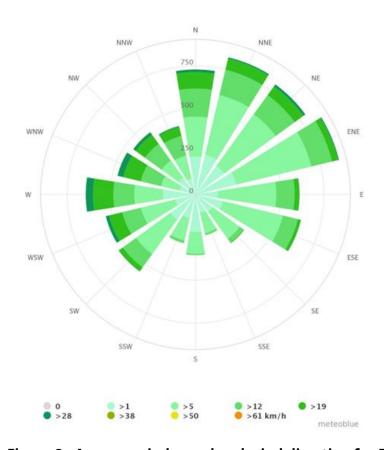


Figure 8 - Average wind speed and wind direction for Farm Waldeck No.28 (Meteoblue, 2023)



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5.2 Noise generation

Considering the scale and nature of the proposed project, noise levels are anticipated to be low in the Project area. Groundwork activities, on-site machineries and generators will generate relatively low noise levels, however on-site contract workers are considered as susceptible receptors to noise pollution as noise would raise occupational health and safety concerns. On a related note, aircrafts and hunting expeditions could potentially generate additional noise, although these are deemed to be infrequent events. Noise impacts are further discussed in detail in Chapter 7.

5.3 SOCIO-ECONOMIC ENVIRONMENT

Namibia is ranked amongst some of the least populated countries in the world with a population density of 3,13 persons per km² (Namibia Statistics Agency, 2019). Vast areas are without people, in contrast to some densely populated areas in the north and north central regions of the country. The urban population pyramid for Namibia is greatly dominated by the middle age working groups (age group 20 – 35) and infants (0 – 4 years of age). The urban population of Khomas Region is high as people are drawn by pull factors such improved economic activities and the growing expectations for better living conditions (Namibia Statistics Agency, 2019). Khomas Region occupies 4.5% of the land surface area of Namibia and accommodate the largest percentage (18%) of the national population, with a male to female sex ratio of 49: 50 (Namibia Statistics Agency, 2019).

The Regional Indicator Demographic Survey conducted by Namibia Statistics Agency in 2016 indicated that Khomas Region had a population of 415,780, population density of 11.3 persons per km² and population growth of 3.9% (Namibia Statistics Agency, 2017). The report further postulate that 95% of Khomas Region population live in Windhoek or nearby districts whilst the remainder of the population reside in the rural settlements (Namibia Statistics Agency, 2017). There is a diverse number of ethnic groups, however Oshiwambo is the most spoken language (47% of all households). The average literacy rate was estimated at 97% in 2016 (Namibia Statistics Agency, 2017). Living in an urban environment implies better living conditions – in the Khomas Region, 100% of all households have access to safe water drinking water and 64% of the households are electrified. On a contrary, 25% have no toilet facilities and 7% of the population depend on open fires to prepare food (Namibia Statistics Agency, 2017).

Windhoek is the national capital and the capital of the Khomas Region. Regions in Namibia are divided into constituencies and currently Khomas Region is divided into ten constituencies. Windhoek is governed by a local authority in the form of a City Council. The country's capital, Windhoek hosts many of the national head offices as well as the head offices of the Khomas Regional Council. Towns are governed through local authorities, in the form of municipalities. Places such as Groot Aub, Seeis and Dordabis are managed directly by the central authority.



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5.4 GOVERNANCE

Since the country's independence in 1990, Namibia has enjoyed a constitutional democracy and political stability which provided a conducive environment for programming and for children to thrive ((UNICEF, 2022). The country ranked top 5 out of 54 African countries in the Ibrahim Index of African Governance in 2015 for the indicators including the quality of governance and the government's ability to support human development; sustainable economic opportunity; rule of law and human rights; and development of smart information and communication technology to access information for socio-economic growth (Namibia Statistics Agency, 2019). As a result of sound governance and stable macroeconomic management, Namibia has experienced rapid socio-economic development. Namibia has achieved the level of 'medium human development and is ranked 145th on the Human Development Index out of 188 countries (World Data Atlas, 2023). The country's governance is guided by the long-term strategic/sustainable development objectives such as Vision 2030, Harambee Prosperity Plan and the 5th National Development Plan (NDP5) (NPC, 2020).

5.5 EMPLOYMENT

According to the Labour Force Market Survey of 2018 conducted by the Namibia Statistics Agency, of all working groups in Namibia, 53.4% are employed in the private sector, 21.5% by the state, 16.6% by private households and 7.6% are employed by enterprises and parastatals (Namibia Statistics Agency, 2019). The employment rate increased steadily between 2016 and 2018 in both urban and rural settings by 4.8% and 8.3%, respectively (Namibia Statistics Agency, 2019). Agriculture combined with the forestry and the fishing sector employs the most across all sectors (23%), followed by the accommodation and food service industry sector with 11.4% and thirdly the wholesale and retail sector with 11.1% (Namibia Statistics Agency, 2019). Additionally, the agriculture sector employs the most informal workers in Namibia, estimated at 87.6% (Namibia Statistics Agency, 2019). Khomas Region is ranked second after Erongo Region with a 76.8% labour force, although 42.9% are informally employed (Namibia Statistics Agency, 2019).

The 2018 Labour Force Survey report further indicate that the employment absorption rate increases with higher level of education, thus low education levels influence employability, and hence deprive many households from earning decent incomes. Out of the employed populations, the largest portion are employed in the elementary occupations (29.1%), followed by skilled agriculture occupations (15.2%), service workers (14.6%) and craft or related trades (12.5%) (Namibia Statistics Agency, 2019).

The unemployment rate in Namibia has been estimated at 33.4%, with the highest regional unemployment rate observed in the Kavango East Region (48.2%), Omaheke Region (38.7%), Khomas Region is ranked 10th with 31.5% (Namibia Statistics Agency, 2019). The unemployment rate in rural and urban areas is almost the same – 33.4% in urban areas and 33.5% in rural areas and is highly observed across persons with education levels lower than



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junior secondary (Namibia Statistics Agency, 2019). The unemployment rate of persons with no formal education is 28.6%, with primary education is 34.6% and with junior secondary education 32.7% (Namibia Statistics Agency, 2019).

According to the COVID-19 socio economic impact assessment report conducted by the Institute for Public Policy and Research (IPPR), there has been redundancies (retrenchments) across all sectors in the country in 2020 (IPPR, 2020). The Ministry of Labour, Industrial Relations and Employment Creation reported in 2020 that in the midst of the COVID-19 pandemic, 388 employers had retrenched 5 748 employees (IPPR, 2020). The tourism and construction sectors retrenched 2,728 workers while mines retrenched 1,184 workers and the wholesale and retail sector retrenched 584 employees (IPPR, 2020). Subsequent to the COVID-19 socioeconomic implications, the World Health Organisation projected that unemployment rate increased by 1.1 % whilst poverty rate increased by 2.3% (World Health Organisation, 2020).

5.6 ECONOMY

On a national level, 47.4% of the population earn their main income from monthly salaries and wages, 19.8% depend on subsistence farming, 9.5% depend on non-business activities and 8.3% rely on state pension grants (Namibia Statistics Agency, 2019).

Khomas Region is urbanised, and agriculture is less prominent; unlike other regions where populations depend extensively on subsistence or mixed farming for better living standards. In Windhoek, most people are employed in a wide range of secondary economic sectors such as administration, services, manufacturing, guest farms and tourism related establishments (Namibia Statistics Agency, 2019). Most international travels arriving through the Hosea Kutako International Airport influence micro economic performance of many establishments through spendings.

According to the Gross Domestic Product: Second Quarter Report of 2020 conducted by Namibia Statistics Agency, the domestic economy contracted by 11.1%, which is the largest contraction since 2013 (Namibia Statistics Agency, 2019). Economic progression has been underpinned by the lingering effects of COVID-19 (UNICEF, 2022). Tourism and hospitality establishments in Namibia have had a 10-15% drop in revenue as a result of the COVID-19 pandemic in 2020 (Evelina et' al, 2020). Furthermore, the Bank of Namibia (BoN) August 2023 GDP report predicted that real GDP is projected to slow down in 2023 by 3.3% and by 3.0% in 2024 from a 4.6% registered in 2022 (Bank of Namibia, 2023).

5.7 HEALTH

The health status of Namibia has increased steadily with a remarkable improvement in access to primary health facilities and medical infrastructure since its independence in 1990. Despite the progress, the World Health Organization (WHO) in 2015 recommended strategic priorities of the health system in Namibia which include improved governance, an improved health



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information system, emergency preparedness, risk reduction and response, preventative health care and the combating of HIV/AIDS and TB (World Health Organisation, 2016).

HIV/AIDS remains a major cause of death in Namibia and the leading cause of low life expectancy (PEPFAR, 2022). According to the PEPFAR 2022 report, 8.4% of the general population are living with HIV. Since the 2002 peak HIV infection rate which recorded close to 15,000 new HIV cases and close to 10,000 HIV deaths (UNICEF, 2011), new HIV infections have stabilized since 2004 and currently the rate of HIV/AIDS related deaths stands at 3 160 yearly (PEPFAR, 2022). Female children under 15 years of age account for 3.2% of new infections per year, while male children similarly account for 3.3%. Importantly, 97% of people living with HIV/AIDS in Namibia are on Antiretroviral therapy (ARV) (World Health Organisation 2016).

Namibia has one of the highest incidences of TB per capita and is ranked by the World Health Organization (WHO) among the top 30 high TB and TB/HIV burden countries in the world. The survey conducted in 2018, Namibia reported the rate of bacteriologically confirmed TB as 465/100,000 (PEPFAR, 2022). In 2020, the country recorded 6,537 TB cases (57% adult male, 33% adult females, and 10% children) (PEPFAR, 2022).

The World Health Organisation in the 2021 annual report described the COVID-19 crisis as "unprecedented". A total of 4, 098 COVID-19 deaths were reported in Namibia from January 2020 to August 2023 (World Health Organisation, 2023). A total of 874 033 Namibians were successfully tested for COVID-19 contributing to a recovery of 132 596 out of the 149 478 confirmed cases and 495 254 people have been vaccinated thus far with the 1st dose of COVID-19 vaccines (Felicita, 2022).

In the past decade, significant death toll in the country were observed to have been caused by stroke (13.1%), ischemic heart diseases (16.2%), diabetes (21.2%) and neonatal disorders (16.2%) (retrieved from http://www.healthdata.org/namibia). Risk factors such as premature mortality, and social ills remain the leading factors for death – particularly unsafe sex, alcohol and drug abuse (Namibia Statistics Agency, 2020).

5.8 CULTURAL HERITAGE

A desktop study of the Namibian GIS data and information extracted from the Atlas of Namibia revealed that there are no archaeological records or heritage sites of significance within the project area from 1.8 million years until recently (i.e. the last 2000 years) (Bubenzer, 2002 & Mendelsohn et al., 2002). However, this does not nullify the probability of unearthing archaeological finds on Farm Waldeck No.28 or roughly somewhere else beyond the farm's boundary (Bubenzer, 2002 & Mendelsohn et al., 2002).



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5.9 FLORA

Farm Waldeck No.28 falls within the tree-and-shrub-savanna biome, which distinctively is influenced by rainfall (Alice et'al, 2022). According to Bubenzer and Mendelsohn (2002), the project area has a plant diversity of approximately 150 to more than 400 species.

The flora species records from the National Botanical Research Institute (NBRI) indicate that close to 60 endemic species and 20 near-endemic species have been identified and sampled around the Project area and southeast of Windhoek. Furthermore, Bubenzer and Mendelson (2002) described the flora endemism in these areas as moderate to high in the Project area, thus some plant species may not necessarily be confined to the farm boundaries but rather in areas that extend beyond the farm boundaries and over the greater south and southeast regions of Windhoek.

The list provided by NBRI is broken down in respective categories as follows:

Forestry protected species (Forestry Act No.12 of 2001):

-Boscia albitrunca, Maerua schinzii, Ficus cordata, Acacia galpinii; and Erythrina decora.

Protected species - Nature Conservation Ordinance Act No.4 of 1975:

-Huernia oculata, Piaranthus decipiens, Orbea lugardii, Tavaresia barklyi, Orbea lutea, Stapelia schinzii, ,Gasteria pillansii, Moringa ovalifolia, Harpagophytum procumbens, Cyphostemma currorii, Cyphostemma juttae, Adromischus schuldtianus, Crassula lanceolata, Crassula rhodesica, Crassula tabularis, Ebracteola montis-moltkei, Tavaresia barklyi and Ruschia axthelmiana.

Protected species listed under AppendiX II of the CITES: *Ansellia Africana, Eulophia speciosa Aloe hereroensis, Anacampseros filamentosa, Avonia albissima, Aloe hereroensis, Anacampseros filamentosa, Aloe zebrina* and *Pachypodium lealii.*

Appendix D provides a comprehensive summary on the local and international conservatory status of plant species found in the project area.

5.10 FAUNA

The overall terrestrial diversity for the Project area is moderate compared to other parts of the country. The project area has a bird population of approximately 300 species (migratory and residents. Notable endemic birds such as Rüppel parrot, Monteiro hornbills, Rockrunners, White -backed mouse and Shaft -tailed whydah are expected to occur in the project area. Most bird species in Namibia fall under Schedule 4: Protected Game within the Namibian Conservation Ordinance No. 4 of 1975 and 17 huntable game bird species identified in Schedule 6 of the Nature Conservation Ordinance. Mammal diversity in the project area is described as moderate with approximately 58 species (Alice et'al, 2022). Most carnivores occur at low densities due to their highly secretive and nocturnal traits, however close to 17 large and small carnivores' species have been recorded in the project area (Alice et'al, 2022).



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According to Alice et'al (2022), the central highlands have a high reptile diversity of close to 79 reptiles species; of which 8 of the 36 snakes species are endemic; *Stigmochelys pardalis, Psammobates oculiferus, Python natalensis* and *Varanus albigularis* are protected and listed as least concern (IUCN, 2022). Records indicate that 13 of the 34 lizard species are endemic to Namibia. The amphibian diversity is estimated at roughly 13 species (3 are known to be endemic) whilst scorpion species are estimated between 14 to 17 species (Bubenzer, 2002 & Mendelsohn et al., 2002).

A great percentage of bird species are highly migratory and pass through Namibia sporadically. The Skaap River and its tributary catchment streams on Farm Waldeck attract various water birds (either resident or migratory). Sighting of certain migratory birds is further dictated by birds migratory patterns and seasonal changes. Certain marine bird species are protected under Section 18 of the regulations of the Exploitation of Marine Resources Act No.241 of 2001 or within CITES appendices. Namibia has currently no species under Appendix I, however, eagle species, korhaans, vultures and falcons species are listed under Appendix II (species not necessarly threatened with extintion but which trade must be controlled) (CITES, 2022). According to the IUCN red list, Lappet-faced vulture, Black harrier, Secretary birds and Martial eagles are endangered, White- headed vultures, White- backed vultures and Hooded vultures are critically endangered whilst Cape vultures are classified as vulnerable (IUCN, 2022).

Various protected or threatened mammal species may on occassions occur on the project site of which one is classified as near threatened (Brown Hyena) and four are classified as vulnerable (Cheetah, Leopard, Pangolin, Black-footed cat), according to the IUCN red list of threatened species. Furthermore, all tortoise species, rock monitors and pythons, dwarf and rock pythons (protected under Nature Conservation Ordinance No.4 of 1975) might potentially be encountered within the project boundaries.

5.11 Hydrology and hydrogeology

The Hochfeld-Dordabis-Gobabis groundwater area stretches from east of Windhoek towards the Botswana and Namibian border. To the east of Farm Waldeck No.28 are high- profile ephemeral rivers such as Seeis River, Black Nossob River and the White Nossob River.

Farm Waldeck No.28 falls within a groundwater control area and is underlain by the Southeastern Kalahari groundwater basin which covers approximately 65 000 km² and is shared between Botswana and South Africa. A small portion of the farm is underlain by the Okahandja groundwater basin (Figure 9).

According to the Namibian Monitoring Information System & Hydrological Map, the project area generally has rock bodies with little to locally moderate groundwater potential. The groundwater vulnerability is considered to be low. The groundwater recharge capacity in the project area is also low (>0.5 – 1%, expressed as percent of the



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average annual rainfall). Groundwater abstration in the project area is generally good with a rate that falls of >100-500 m³, whilst neighbouring areas such as Windhoek and Groot Aub have groundwater abstraction rates of >10000–16000 m³ and >5 -10 m³, respectively (https://www.uit-sensoweb.de/maptest.html).

To a great extent, the project lies within the Skaap catchment which is recharged by major and minor drainage rivers (Figure 9). The Skaap River flows downstream to the Nossob-Auob River basin which is located southeast of the project area (https://mapcarta.com/).

The area receives rainfall between 300-350 mm annually (Bubenzer, 2002). Two boreholes on the farm will supply water required during the construction phase and operational phase.

The hydrology map for Farm Waldeck No.28 is provided in Figure 9.



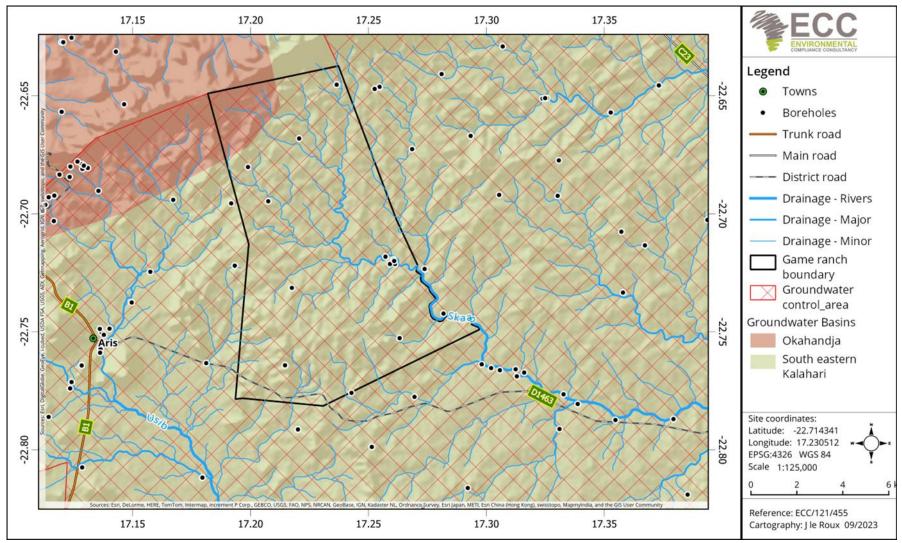


Figure 9 - Hydrology map for Farm Waldeck No.28



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5.12 Soil, Geology and Topography

Major geological features defined within the project area are Rehoboth Group and associated subgroups such as granite, gneiss and old volcanic rocks which are entirely covered by leptosol soils (Figure 11). Regosol soils are found in the broader portions east and southeast of the project area (Figure 10) (Bunbenzer, 2002). Sandstones and metamorphic sedimentary rocks such as schists and marble are other typical rock types found in the surroundings of the project area (Bunbenzer, 2002).

According to Alice et'al (2022), leptosol soils are typically stony and shallow with a high drainage ratio, hence their potential to support crop production is low. Similarly, regosol soils are medium to finely textured with an unconsolidated structure which increase their erodibility, hence their potential to support rain fed crops is also low (Alice et'al, 2022).

The topography of the farm is mountainous and to the southeast of the farm is the ephemeral Skaap catchment area and its small tributaries. The elevation varies between 2000 m to 1900 m above sea level in the north to south direction (Figure 12). The surface geology appears to be smooth to rugged and the entire landscape has a gentle gradient dipping north to south (Figure 12).

The soil, geology and elevation maps are shown in Figure 10, Figure 11 and Figure 12.





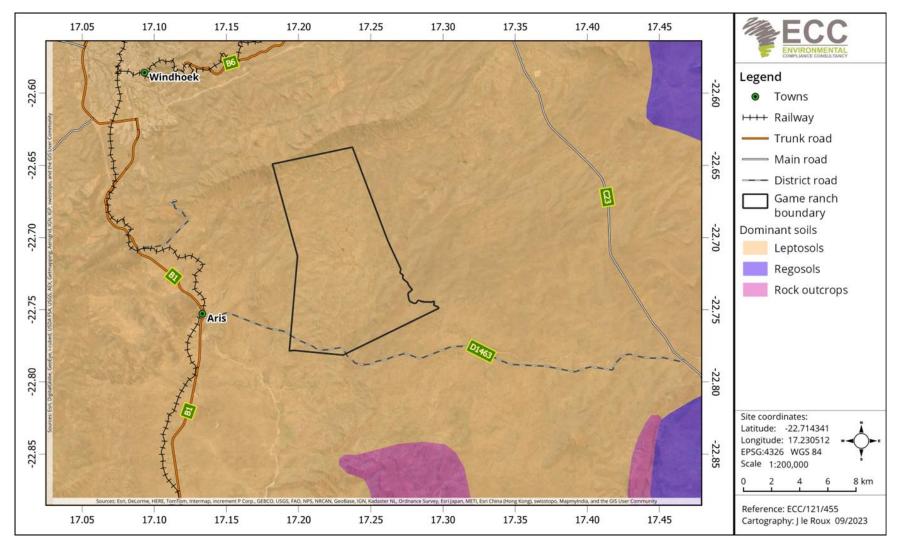


Figure 10 -Soil map for Farm Waldeck No.28

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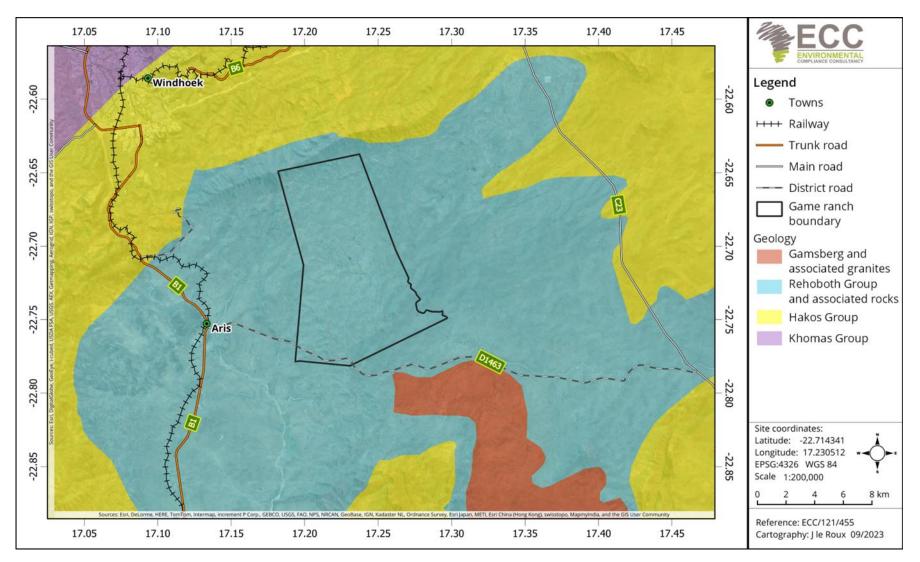


Figure 11 - Geology map for Farm Waldeck No.28



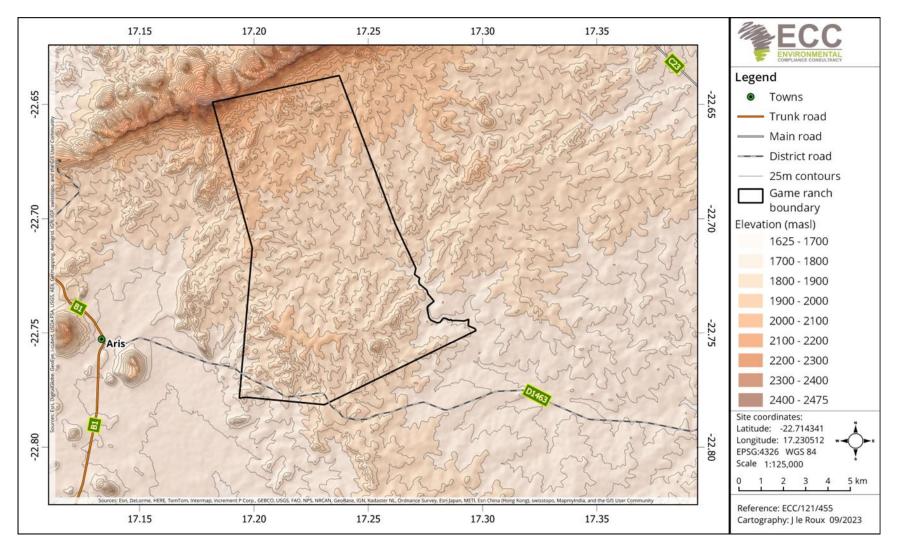


Figure 12 - Elevation map for Farm Waldeck No.28



IMPACT IDENTIFICATION AND EVALUATION METHODOLOGY

6.1 Introduction

The impact assessment method described in this chapter by ECC is designed to systematically identify and evaluate potential environmental and social impacts that may arise from a proposed project. The method takes into consideration the baseline characteristics of the project area and assesses the significance of impacts based on various factors, including the sensitivity and value of environmental and social receptors, the nature and characteristics of the potential impact, and the magnitude of potential change.

The method shown in Figure 13 provides assessment guidance that is used to evaluate impacts, and it also acknowledges any limitations, uncertainties, and assumptions associated with the assessment methodology. It outlines how impacts are identified and evaluated, and how the level of significance is derived. The method also addresses the application of mitigation measures in the assessment, and how additional mitigations are identified.

This chapter provides a structured approach for evaluating the potential impacts of a proposed project on the environment and social aspects. It considers various factors to determine the significance of impacts and provides guidance on how to identify and evaluate potential impacts. It also recognises the limitations and uncertainties associated with impact assessment methodologies, which adds transparency and credibility to the assessment process.

Overall, this chapter provides a comprehensive and systematic approach for conducting impact assessments, which can help ensure that potential environmental and social impacts are thoroughly evaluated and addressed in the decision-making process for the proposed project. However, it is important to note that the effectiveness of this method would ultimately depend on its implementation and the accuracy of the baseline data and assumptions used in the assessment. Therefore, regular reviews and updates of the methodology based on new information and feedback from stakeholders would be recommended to improve its accuracy and relevance.



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ECC IMPACT PREDICTION AND EVALUATION METHODOLOGY



ECC ESIA METHOD

- · Predication and evaluation of impacts is a key step in the EIA process.
- The methods ECC follows to identify and evaluate the impacts arising from projects is outline in this diagram.

BIOPHYSICAL SOCIAL



THE FOLLOWING PRINCIPLES ARE USED BY ECC FOR ASSESSMENTS

- International Finance Corporation Particular Principe Corporation standards and models, in particular Performance Standard 1, "Assessment and management of environmental and social risks and impacts" (international Finance Corporation, 2017) (International Finance Corporation, 2012).
- International Finance Corporation CIA and Management Good Practice Handbook (International Finance Corporation, 2013) and,
- Namibian Draft Procedures and Guidance for EIA and EMP (Republic of Namibia, 2008).

DETERMINE THE SIGNIFICANCE OF AN IMPACT

SENSITIVITY AND VALUE OF A RECEPTOR

The sensitivity and value of a receptor is determined by identifying how sensitive and vulnerable a receptor is to change, and the importance of a receptor (internationally, retineable, levells, nationally, locally)

NATURE AND CHARACTERISTICS OF THE IMPACT

The nature and characteristics of the impact is determined through consideration of the frequency, duration, reversibility and probability of the impact occurring.

MAGNITUDE OF CHANGE

The magnitude of change measures the scale or extent of the change from the baseline condition, irrespective of the volus. The magnitude of change may after over time, therefore temporal variation is considered (shafe-term, measure-term, long-term, reversible, reversible enivernmental assessment methodology.

ECC - NATURE OF IMPACT



BENEFICIAL (POSITIVE)

An impact that is considered to represent an improvement on the baseline or introduces a positive change.

ADVERSE (NEGATIVE)

An impact that is considered to represent an adverse change from the baseline or introduces a new undesirable factor.

→ DIRECT

Impacts causing an impact through direct interaction between a planned project activity and the receiving environment/

receptors.

ECC - TYPE OF IMPACT

() INDIRECT Impacts that result from other activities that are encouraged to hoppen as a result / consequence of the Project. Associated with the project and may occur at a later time or wider area.

CUMULATIVE

Impacts that arise as a result of an impact and effect from the project inferacting with those from another activity to areate an additional impact and effect



REVERSIBLE

and recoverable in the future



PARTLY REVERSIBLE

Some parts at the impact can be reversed while others remain

IRREVERSIBLE Impacts which are not reversible and are permanent

DURATION

TEMPORARY Transient:

Impacts that a period of less than 1 are likely to last for the duration Vegt of the activity (1-5 years)

SHORT TERM

MEDIUM TERM

Impacts that are likely to continue after the activity causing the impact and are recoverable (5-15 years)

LONG TERM Impacts that are likely to last far beyond the end of the activity

PERMANENT causing the damage (greater than 15 years with impact ceasing of the project)

REGIONAL

MAGNITUDE OF CHANGE

Loss of resource, significantly affecting the long term quality and integrity of a resource; irreparable damage or loss of key characteristics, features or elements; or the magnitude is too great to quantify as it is unknown.

HIGH / MAJOR

VERY HIGH /

UNKNOWN

Loss of resource, and quality and integrity of resource; severe damage to key characteristics, features or elements; or

Large scale or major improvement at resources quality; extensive restarction or enhancement, major improvement of attribute quality.

MODERATE

Loss of resource, but not adversely affecting its integrity; partial loss of/damage to key characteristics, features or elements; or

Benefit to, or addition of, key characteristics, features or elements; improvements of attribute quality

LOW /

Some measurable change in affitbutes, quality or vulnerability; minor loss of, or alteration to, one (or maybe mare) key characteristic, feature or element; or

MINOR

Minor benefit to, or addition of, one (or maybe more) key characteristic, feature or element, some beneficial effect o reduced risk of a negative effect accurring.

NONE / NEGLIGIBLE

Very minor loss or detrimental atteration to one (or maybe more) characteristic, feature or element; or

Very minor benefit to, or positive addition at, one (or maybe more) characteristic, feature or element.

SCALE OF CHANGE - EXTENT / GEOGRAPHIC SCALE



ON-SITE Impacts that are limited to the

boundaries of the

proposed project site

A LOCAL

Impacts that occur in the local area of influence, including around the proposed site and within the wider community

Impacts that affect a receptor that is regionally important by virtue of scale designation, quality or rarity

NATIONAL

impacts that affect a receptor that is nationally important by virtue of scale, designation, quality or rarity.

INTERNATIONAL

Impacts that affect a receptor that is nationally important by virtue of scale, designation, quality or rarity

PROBABILITY

IMPROBABLY (RARE)

The event may occur in exceptional circumstances yet, rarely occurs in the industry. The event could occur once every 100 years

LOW PROBABILITY (UNLIKELY) MEDIUM PROBABILITY (POSSIBLE) HIGH PROBABILITY (LIKELY)

The event has happened elsewhere yet, is unlikely to occur. The event could occur once every 10 years

The event could occur under some circumstances. The event could occur once every 5 years.

The event is expected to occur. The event could occur fwice per year

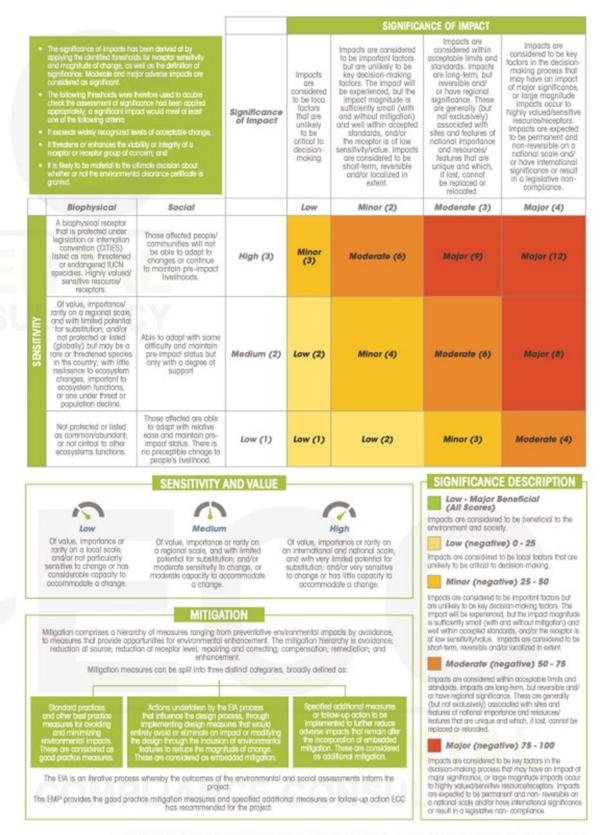
DEFINITE (ALMOST CERTAIN)

The event will occur. The event could occur once per month

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Figure 13 -ECC ESIA methodology based on IFC standards



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6.2 Assessment guide

The principal documents used to inform the assessment method are:

- International Finance Corporation standards and models, in particular Performance Standard 1, 'Assessment and management of environmental and social risks and impacts' (International Finance Corporation, 2017) (International Finance Corporation, 2012),
- International Finance Corporation CIA and Management Good Practice Handbook (International Finance Corporation, 2013); and,
- Namibian Draft Procedures and Guidance for EIA and EMP (Republic of Namibia, 2008).

6.3 LIMITATIONS, UNCERTAINTIES AND ASSUMPTIONS

The limitations and uncertainties associated with the assessment methodology in Namibia were observed to include the absence of topic-specific assessment guidance, with a generic methodology being applied based on IFC (International Finance Corporation) guidance and professional judgement with over 25 years of ESIA experience. This implies that there may be limitations in terms of tailoring the assessment to specific topics or issues relevant to Namibia, and that the methodology may not fully capture the unique characteristics and nuances of the local context.

It is important to note that the limitations and uncertainties identified in the assessment methodology, shown in



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Table **6**, may introduce potential biases or inaccuracies in the assessment results. Therefore, it is recommended to regularly review and update the methodology to address these limitations and uncertainties, and to ensure that it remains robust and relevant for the specific context of Namibia. Additionally, incorporating stakeholder feedback and local knowledge can also contribute to improving the accuracy and comprehensiveness of the assessment process.

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Table 6 - Limitations, uncertainties and assumptions

Limitations/uncertainty	Assumption			
Topic-specific assessment guidance has not	A generic assessment methodology will be			
been developed in Namibia.	applied to all topics using IFC guidance and			
	professional judgement.			
The potential extension of the project	The proponent has signed contractual			
footprint.	purchase agreements with the landowners			
	of Farm Dornbaum No.74 and Bethlehem			
	No.27/Rem 3. The project footprint will be			
	expanded prior to full acquisition of these			
	portions. An ECC amendment will be			
	launched with the competent authority and			
	an impact assessment study will be			
	undertaken to assess the potential impacts			
	of any planned development activities that			
	may be associated with these portions.			
The assessment of potential impacts	The Proponent propose to import game			
associated with imported game	from South Africa. The associated potential			
	impacts will be discussed thoroughly			
	through an amendment application which			
	will be launched once the additional			
	portions have been fully procured and transferred.			
Meteorological data for Farm Iturea was	There is no site- specific weather data,			
used in this scoping and impact assessment	therefore the neighbouring farm's records			
study.	have been used as representative of the			
Study.	project area, with the assumption that			
	atmospheric conditions over the two farms			
	would likely be similar.			
	Would likely be similar.			

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7 IMPACT ASSESSMENT FINDINGS AND PROPOSED MITIGATION MEASURES

This chapter presents the findings of the impact assessment for the proposed project, with a focus on significant potential impacts as set out in Chapter 2 and 6 of this report. The design of the proposed project and best practice measures were considered during the assessment to identify likely significant impacts and recommend mitigation management measures. This chapter aims to focus on potential significant impacts, however impacts deemed as not significant are listed and are not discussed further in this report.

The following topics were considered during the scoping phase:

- Air quality;
- Noise;
- Waste management;
- Potential hydrocarbon spills;
- Sewage waste;
- Soil and landscape;
- Visual:
- Impacts on biodiversity (fauna, flora and avifauna); and
- Socioeconomics (employment).

Impacts deemed as potentially significant are assessed in terms of their severity, duration, probability, sensitivity to receptors and nature of impact before and after mitigation. Best management practises are stated where required. The EMP provided in Appendix – A, provides best practice measures, management and monitoring for all impacts.

Due to the nature and localised scale of the current construction activities and proposed operational activities, and the environmental context of the site, the potential environmental and social effects are expected to be major, moderate and minor before mitigation measures. The areas where uncertainty remains are potential noise risks, potential habitat destruction, habitat fragmentation, potential lead poisoning of scavengers (especially vultures), potential risk of lowering groundwater and the potential risk of wildlife mismanagement. The potential risks are discussed in detail in section 7.2. Impacts associated with the additional land portions yet to be fully procured and transferred will be addressed in an amendment impact assessment application and study to be launched with the competent authority.

Mitigation measures will focus on reducing the effects of the potential impacts and ensure an acceptable measure of operation can be maintained when an impact cannot be avoided completely. An EMP has been drafted to accompany this scoping and impact assessment report, which sets out the management and mitigation measures for the project.



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7.1 IMPACTS DEEMED AS NOT SIGNIFICANT

Impacts that have been assessed as not being significant are summarised in Table 7 and are not discussed further.

The listed impacts below are non-significant and do not render any threat to the environment in a way that adversely challenges its resilience to continue in its modified form.



Table 7 - Table of non-significant impacts

Environmental or social topic	Potential impact	Summary of preliminary assessment findings
Air quality	Potential dust generation from construction activities and vehicles driving on dirt roads on the farm.	Construction of lodge infrastructure is underway and nearly completion. It is unlikely that current activities will generate dust that would potentially impact neighbouring farms. No complaints to date. It is anticipated that dust generated during game drives and hunting expeditions will relatively be low.
Vegetation clearing	Potential removal of protected plant species.	No large scale clearing of vegetation is required and species are loosely scattered over the project area. Furthermore, the selected site for the PV solar plants is relatively small (40 m x 60 m), has no trees and only grass will be removed.
Waste generation (General solid waste and construction waste)	General waste generation during construction and the operational phase. Potential littering, pollution and visual nuisance.	Waste generated on-site, including construction waste will be removed from site and disposed-of at the Kupferberg landfill site. There will be a compost heap for food waste generated during the operational phase and an external waste collecting company will be contracted to collect general waste. The Proponent will develop a waste management plan to counteract impacts of waste disposal on and surrounding the site.

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Environmental or	cal or Potential impact Summary of preliminary assessment findings					
social topic						
Avifaunal collision	Light pollution and reflective surface risks	PV solar panels are less reflective than Concentrated Solar Power (CSP)				
	from PV solar plants that could	which are more curved and reflective, therefore this impact is				
	potentially act as "lake effect", thus	considered to be minor.				
	leading to bird collisions and fatalities.					
Fire risks	Potential fires on the farm due to	These are naturally unexpected events. The Proponent will need to				
	operational, tourism and hunting	carefully manage activities that have the potential to create field fires				
	activities.	as specified in the EMP.				
		Fire bands will be graded along perimeter fences and will be maintained				
		on a yearly basis following rain season.				
Diesel tank, vehicle	Potential hydrocarbon and chemical	The diesel tanks on site and vehicles should be well maintained to				
and equipment	spills that could impact soil, groundwater	prevent any spills (appropriate bunding where required).				
	and surface water quality.					
		Spill management measures are presented in the EMP.				
Increased	Increased people/foot traffic within the	The potential risk of negative social interactions to occur between the				
people/foot traffic	project area and immediate vicinity.	workforce and the public. The project scale is small and only 12				
		permanent staff members will be recruited, therefore influx of job				
		seekers to the project area is not expected.				
Visual	Change to the sense of place of the local	The farm's elevation has been taken into account; thus the project				
	area.	infrastructure is anticipated to have minimal visual disturbances				
		towards the surrounding farms such as: Farm Unkenfels No.73, Farm				
		Gocheganas No.26, Farm Bethlehem No.27/Rem 3, Farm Aris No.29,				
		Farm Klein Windhoek No.70 and Farm Paulinehof No.492.				



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Environmental or social topic	Potential impact	Summary of preliminary assessment findings
Sewage waste	Potential contamination of groundwater.	Septic tanks and the greywater treatment system will have to be
		effectively cleaned, maintained and regularly monitored.
		Specifications in the EMP should be followed closely.

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7.2 SOCIOECONOMIC IMPACTS

The term socio economic impact assessment embraces both social impacts and economic impacts. Economic impacts include issues such as employment, changes in economic activities and increased expenditure. The significant social and economic impacts that have specific interest to the community and stakeholders before mitigation are summarised in Figure 14. Details related to each specific impact are discussed further in the sections below.

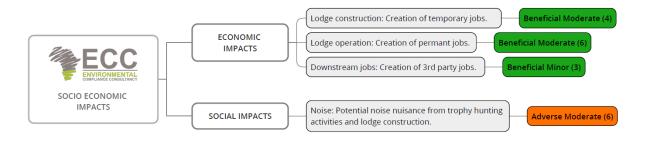


Figure 14 - Socioeconomic impacts

7.2.1 EMPLOYMENT CREATION -ECONOMIC

Khomas Region has a 76.8% active labour force and the region is ranked 10th out of the 14 regions in terms of unemployment- with the unemployment rate projected to be 31.5% (Namibia Statistics Agency, 2019). In Windhoek, majority of the employment is through the food, accommodation and service sector, which significantly recovered since the COVID-19 pandemic. A summary of the impacts assessment is presented in Table 8.

7.2.1.1 Direct employment impacts – construction phase

On average approximately 107 employees have been contracted for various project activities during the construction phase. The figure is not fixed and thus has been subject to changes based on the project desires. Where it was deemed feasible, local Namibian's were contracted for these jobs. The creation these temporary jobs is beneficial, with minor magnitude for change. This is deemed to be a moderate beneficial impact towards the community. No mitigation measures are required.

7.2.1.2 Direct employment – operational phase

During the operational phase, 12 (skilled and semi-skilled) permanent employees will be employed. This beneficial impact will result in a permanent impact with minor magnitude of change and medium sensitivity and value. A moderate beneficial impact could therefore be expected. No mitigation measures are required.

7.2.1.3 Indirect employment – local suppliers

The lodge operation will boost the local economy by creating indirect downstream opportunities in terms of trading or market opportunities i.e., local suppliers. These indirect beneficial impacts



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are long term and partly reversible. The probability of the impact is expected to be high whilst sensitivity and magnitude of change are expected to be low. The overall significance of impact is expected to be minor -beneficial. No mitigation measures are required.

Table 8 -Impact related to socioeconomics

Activity	Receptor	Impact	Nature of impact	Value & sensitivit	Magnitude of change	Significanc e of impact
Construction works	Community ,Job seekers and Local economy	Creation of approximately 107 temporary jobs.	Beneficial Direct Reversible Temporary Regional	Medium	Minor	Beneficial Moderate (4)
Operation of the proposed Project	Community, Job seekers and Local economy	Creation of 12 permanent jobs.	Beneficial Direct Reversible Permanent Regional	Medium	Minor	Beneficial Moderate (6)
Downstream economic injection	Local economy (goods and services trade businesses)	Financial injection into service and goods trading in the local economy, and direct foreign investment.	Beneficial Indirect Partly reversible Long term Local	Low	Minor	Beneficial Minor (3)

7.3 SOCIOECONOMIC ENVIRONMENT – SOCIAL

Social impacts include the consequences to local populations in terms of people's lives, work, livelihood and interactions. Noise impacts associated with the project activities are discussed in the section below.

7.3.1 NOISE IMPACTS

The construction phase may generate thunderous noise levels which potentially could pose occupational health and safety concerns. The proposed operational activities (hunting expeditions) and occasional aircrafts fly-over could generate additional noise which potentially could lead to hearing loss risks to shooters, nuisance towards neighbouring farms and the general biodiversity on the farm. Target shooting is a popular sport around the world, however this does not form part of the envisioned activities. According to Meinke et al. (2017), majority of firearms (not including smaller calibres like a .22) can generate peak sound pressure levels (SPLs) between 150 to 165 dB which could permanently damage the human cochlear structure. Professional



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hunters, farm owners and game guides are more susceptible to excessive noise levels and are at high risk of enduring noise-induced hearing losses (NIHL) (Meinke et al. 2017).

There are limited literatures on gunshot noise impacts on biodiversity, however Burton (1998) narrated the importance of ecotourism in ensuring sustainable development. Although gunshots effects have been rarely studied in rural areas, hunting in these pristine environments is a notable activity (Milner-Gulland & Bennett 2003). The research paper on environmental impact of noise pollution on biodiversity by Sordello et al (2019) argued that man-made sound impact animals by influencing the use of space by biological groups such as birds, amphibians and reptiles (Sordello et al, 2019).

The potential risk of noise is rated direct, reversible and localised as the impact affect biodiversity's that could be close to the noise source. Although shooting/hunting expeditions occurs on occasions and over short durations, the impact is considered as long term due to prolonged exposure especially for the game hunting guides. Long term exposure could result in noise-induced hearing loss (NIHL). There are health and safety risks for hunters, therefore magnitude of change is rated as moderate, and sensitivity of impact is rated medium. Overall, the significance of impact is expected to be adverse moderate before mitigation measures and adverse minor after mitigation measures (Table 9).



Table 9 - Impacts related to noise risks

Activity	Receptor	Impact	Nature of	Value &	Magnitude of	Significance	Impact after
			impact	sensitivity	change	of impact	mitigation
Hunting and	Neighbourin	Noise nuisance	Adverse	Medium	Moderate		
shooting	g farms, on-	and potential	Direct				
activities and	site	hearing loss	Reversible				
vehicles	employees	towards site-	Permanent				
driving on	and	based	Local			Adverse	Adverse
dirt roads	biodiversity	employees and	Likely			Moderate (6)	Minor (4)
and other	groups.	disturbance to					
noise		biodiversity.					
generating							
activities.							

The Proponent should consider the following mitigation measures:

- The Proponent should develop an occupational health and safety management plan, taking into account noise generation;
- Ensure appropriate PPE is worn during hunting expeditions (i.e. earmuffs, earplugs and ear protective equipment with >30 SNR (Single Number Rating);
- Hunting rifles should be equipped with silencers/ suppressors where required or feasible;
- Areas with rich biodiversity's should be identified and reserved (e.g. vulture breeding and nesting areas);
- People not shooting should stand further away from the noise source;
- Vehicles should be maintained regularly to limit noise levels; and
- Conduct safety inductions before hunting expeditions.

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7.4 IMPACTS ON BIODIVERSITY

The biodiversity impact assessment chapter covers potential impacts to fauna and flora and the related ecological function or ecosystem services in the project area. The significant biodiversity impacts (before mitigation measures) that have specific interest to the community and stakeholders are summarised in Figure 15. Impacts are discussed further in detail in this section.

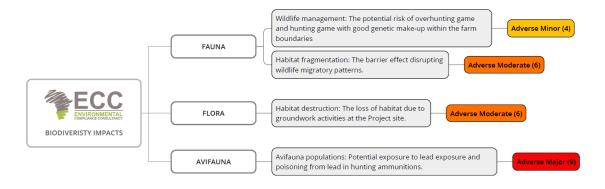


Figure 15 - Biodiversity impacts

7.4.1 IMPACTS RELATED TO HABITAT LOSS

Habitat destruction refers to the process where the natural habitat is disturbed or changed to the point where it cannot support the native species of the area anymore. Biodiversity that usually formed part of the landscape could potentially be killed or displaced, which ultimately reduce species abundances.

The proposed Project will involve the clearing of land for two PV solar plants and associated infrastructure. The area selected for PV solar plants is however relatively small, measuring approximately 40 m x 60 m and has no trees. Land clearing and surface levelling activities will involve the removal of grass, excavation of soils and roots, stripping and compaction of topsoils which potentially could result in the loss of certain habitats. According to Beatty et al (2017), herbicides are sometimes used as rapid mechanical land clearing methods to get rid of unwanted plants or weeds. These activities according to Jenkins et al (2017) impact on ecosystems patterns and functions such as wildlife cover, forage, nutrient cycle and animal displacement. These mass land clearing practices are usually used to accommodate convenient construction, operations of the plant and even for easy access, but according to Jenkins et al (2017) there are alternatives where vegetation could be incorporated into solar plant design.

There won't be removal of trees at this stage of the project, therefore it is anticipated that species likely to be impacted on by the land preparation activities will be reptiles, amphibians, scorpions, ground nesting birds and/or any other ground -burrowing species.



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According to Alice et'al (2022), the central highlands have a high reptile diversity of close to 79 reptiles species; of which 8 of the 36 snakes species are endemic. Slow mobility reptiles such as: *Stigmochelys pardalis*, *Psammobates oculiferus*, *Python natalensis* and *Varanus albigularis* are protected and listed as least concern (IUCN, 2022). 13 of the 34 lizard species are endemic to Namibia. The amphibian diversity is estimated at roughly 13 species (3 are known to be endemic) whilst 14 -17 scorpion species are likely or expected to be found in the project area (Bubenzer, 2002 & Mendelsohn et al., 2002).

Grass species such as *Eragrostis omahekensis*, *Pennisetum foermeranum*, *Setaria finite* and *Eragrostis scopelophila* are expected to occur in the project area or its surrounding and will likely be removed during land preparation. However, *Eragrostis omahekensis* thrive exponentially well under disturbed soils (Cunningham, 2017).

The magnitude of change regarding the loss of habitat loss is moderate because land portions will be cleared for two PV solar plants. The impact will be direct, on-site and irreversible because the ecosystem will be altered and natural habitat will be destroyed, some species might potentially be displaced. The sensitivity of impact is ranked as medium and not expected to be severe. The significance of the impact has thus been classified as moderate. Prior to construction activities, the project site and the contractors housing area were thoroughly inspected and fenced off to prevent incursion into uninspected areas. With the implementation of the mitigation management measures, the significance of the impact is considered minor (Table 10).

Table 10 - Impacts related habitat destruction

Activity	Receptor	Impact	Nature of		Magnitude	Significance	Impact
			impact	sensitivity	of change	of impact	after
							mitigation
Land	Biodiversity	Potential	Adverse	Medium	Minor		
clearing		habitat	Direct				
activities		destruction	Irreversible				
for two		and	Permanent				
PV solar		disturbances	On-site				
plant.		of	Likely			Adverse	Adverse
		ecosystem				Moderate	Minor (4)
		functioning				(6)	Willior (4)
		due to land					
		clearing					
		activities for					
		the PV solar					
		plants.					



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The Proponent should consider the following impact management/control measures:

- When new project areas are identified, the area should be inspected to determine the presence of any unique nesting/breeding site;
- Use existing roads and avoid off-road driving; and
- Conduct training and inductions on biodiversity and negative impacts on habitat destruction.

7.4.2 HABITAT FRAGMENTATION

A 2.5-meter-high, non-electrified game proof fence is currently under construction to exclusively fence off Farm Waldeck No.28 and the Iturea portion. Erection of the game proof fence creates a barrier effect, which ultimately alters game migratory routes, confine game to limited land portions (habitat fragmentation) and hinder animal access to crucial resources (Jakes et al., 2018). Large mammals, slow moving reptiles such as tortoises, monitors, chameleons, snakes and amphibians are the most identified susceptible receptors. Burrowing species could potentially not be regarded as potential receptors as they may be able to migrate between farms. Game proof fences have been erected across most game farms and nature reserves in South African countries to define boundaries, control game movements, control the spread of animal diseases and mitigate human wildlife conflicts (Jakes et al., 2018).

The following surrounding farms will share boarders with the current game proof fence:

- Farm Unkenfels No.73: located southeast of the Iturea portion, game proof fence will cover a distance of approximately 8km;
- Farm Paulinehof No.492: located east of Farm Waldeck No.28, game proof fence is expected to cover approximately 9km;
- Farm Gocheganas No.26: located south of Farm Waldeck No.28, game proof boarder fence length is expected to be approximately 4km;
- Farm Aris No.29: located to the west of Farm Waldeck No.28, game fence expected to stretch for approximately 14 km; and
- Farm Klein Windhoek No.70; located north of Farm Waldeck No.28, game proof fence is expected to cover a length of approximately 6km.

The game fence may be associated with potential negative impacts such as wildlife entanglement, increase competition for resources and pressure on the land carrying capacity. The opening up of the Iturea portion will however ease the severity of the impact, as the land carrying capacity will increase.

The impact related to habitat fragmentation will be adverse and direct. The impact is expected to have a local extent as game migratory routes between the surrounding farms will be disturbed. Impacts such as wildlife entanglement in the fence, increase in resource competition and impacts on the land carrying capacity are deemed as cumulative.



The opening up of Farm Iturea will mitigate the impact by increasing the carrying capacity. Additional farms will be purchased by the Proponent; however, the impacts will be explored thoroughly in a different impact assessment study once the portions have been fully procured and transferred. The magnitude of the impact is therefore considered to be moderate and overall significance of the impact to be adverse moderate before mitigation measures and adverse minor after mitigation. An overview of the impact as assessed is presented in Table 11 below.

Table 11- Impact related to habitat fragmentation

Activity	Receptor	Impact	Nature of	Value of	Magnitude of	Significance of	Impact after
			impact	sensitivity	change	impact	mitigation
Construction	Biodiversity	Disturbance to	Adverse	Medium	Moderate		
of a game		wildlife migratory	Direct				
proof fence		routes leading to	/cumulative				
		habitat	Partly				
		fragmentation,	reversible			Adverse	Adverse
		wildlife entangled	Long term			Moderate (6)	Minor (4)
		in the fence and	Local				
		increase	Likely				
		competition for					
		resources.					

Impact management/control measures may include but are not limited to the following:

- Swing gates could be added to ensure that borrowing animals can get through;
- Droppers should be added at regular intervals to ensure that the fence will be visible to wildlife;
- Conduct regular patrols to monitor game movements and wildlife that might be stuck/entangled; and
- Fences should be checked for snares and removed immediately.



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7.4.3 WILDLIFE MANAGEMENT

The Proponent intent to engage in professional hunting (hunting for game which is managed by the Proponent through proper breeding protocols and gene diversification). Hunting will be aimed at targeting trophy game and will be conducted strictly under the supervision of a registered Professional Hunters. The meat will mainly be used for the lodge, thus providing tourists with the opportunity to enjoy local game. Excess meat will be provided to staff for rations and any excess meat will be donated.

The Namibia Labour Survey Report of 2018 indicated that 19.8% of the population depend on subsistence farming (NSA, 2019). Additionally, Brink et al (2011) narrated that game farming has grown exponentially since the 1960's and contributed significantly to the GDP. However, hybridization, inbreeding and ecosystem disruptions concerns have been raised by various environmental institutions and academics in recent years. As a result, this prompted the desire for improved sustainable game farming management through ecological, social and economic approaches (Brink et al, 2011).

Responsible wildlife management increase the capacity in which the ecosystem contributes and continues to provide services as well as prevent the costs of degradation, repair and restoration (Brink et al. 2011). Furthermore, Brink et al (2011) narrated that responsible game management improves the genetic health of wildlife populations through the prevention of inbreeding by fenced-off populations.

The renovation of the farm fence entails that game will be confined inclusively to areas within the farm areas, thus the impact of wildlife mismanagement will be on- site and duration of impact is considered to be long term. The impact is partially reversible provided that practical mitigation measures are implemented. The magnitude of change is expected to be minor and sensitivity of potential risk of wildlife mismanagement is rated as medium as the impact could lead to game population imbalances within the farm (e.g. too many herbivores or too many predators). Closed-circuit cameras were installed to monitor the project area on a 24-hour basis. The significance of impact expected to be minor, and low with the implementation of mitigation measures (Table 12).

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Table 12 - Potential wildlife mismanagement impact

Activity	Receptor	Impact	Nature of impact	Value & sensitivity	Magnitude of change	Significance of impact	Impact after mitigation
Wildlife	Huntable	Potential	Adverse	Medium	Minor		
management	game	risk of	Cumulative				
		overhunting	Partly				
		of game	reversible				
		and hunting	Minor				
		of game	Long term			Minor (4)	(1 0)4() 2
		good	On site			Willior (4)	(Low) 2
		genetic	Medium				
		make-up	probability				
		within the					
		farm					
		boundaries					

Impact management/control measures may include but not limited to the following:

- Develop an effective wildlife (biodiversity) management plan;
- Game hunting permits should be applied for;
- Hunting should be conducted under the supervision of a registered Master or Professional Hunter:
- Create awareness, training on biodiversity conservation to employees and tourists;
- Conduct annual game counts and keep records of hunted game and game populations;
- Introduce new game to the farm from elsewhere (new genetics) to prevent inbreeding of fenced off population; and
- Sustainable game farm management and ethical practices should be promoted and incorporated throughout the hunting season (expeditions).

7.4.4 LEAD POISONING

Hunting and shooting for trophy form part of the proposed project. Lead-based ammunitions are popularly used in the hunting/shooting sectors and lead exposure from hunting ammunitions might have potential negative impacts on wildlife within farm boundaries, especially scavengers (i.e., White Backed Vulture). White -backed vultures are listed by IUCN as critically endangered (IUCN, 2022). In broad terms, vultures are the most susceptible receptors as they are mostly associated with game farms. According to the IUCN red list, Lappet-faced vulture, Black harrier, Secretary bird and Martial eagle are endangered, White-headed vultures, White-backed vultures and Hooded vultures are critically endangered whilst Cape vultures are classified as vulnerable (IUCN, 2022).



According to van den Heever et al. (2019), poisoning and lead poisoning are the most notable causes of vulture mortalities in Africa. The research study conducted in 2019 on lead concentration levels in bones of scavenging and non- scavenging birds indicated that 12% of White-backed vultures suffer from subclinical to severe clinical lead poisoning upon their death (van den Heever et al, 2019). The study concluded that the likely source of lead could be fragments of lead ammunition embedded in the carcasses of hunted animals. Once ingested by vultures and regurgitated to chicks, the lead concentrations are passed on leading to detrimental impacts (van den Heever et al 2019). For illustrative purpose, Figure 16 shows the lead poisoning flowchart in birds.

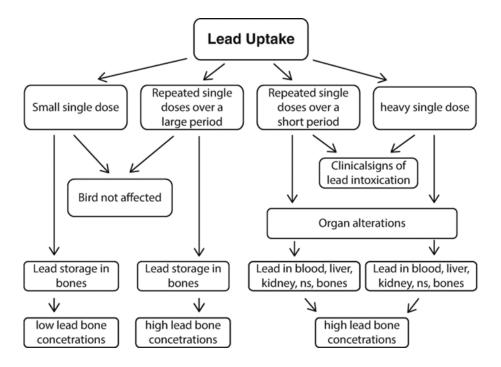


Figure 16 - Lead poisoning in birds' flowchart

The sensitivity of the receptor is rated as high because of the critically endangered White-backed vultures and White-headed vultures, Cape vultures (vulnerable) and Lappet-faced vultures (endangered) that are on occasion associated with game farms. Additionally, these species are listed under Appendix II of the CITES. The magnitude of impact is rated high due to the conservation status of these scavenger species. The potential risk of lead poisoning expected to be indirect and irreversible. Receptors (scavenger bird species) are migratory and will not always be confined to the project area, hence the potential risk is ranked to have a regional impact. Overall, the significance of impact is rated major- moderate before mitigation and moderate after implementation of mitigation measures (Table 13).

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Table 13 - Impacts related to lead poisoning

Activity	Receptor	Impact	Nature of	Value &	Magnitude	Significance	Impact after
			impact	sensitivity	of change	of impact	mitigation
Hunting	Avifauna	Potential lead	Adverse	High	High		
activities		exposure and	Indirect				
		poisoning	Irreversible				
		from lead in	Moderate				Adverse
		hunting	Permanent			Adverse	Moderate
		ammunitions	Regional			Major (9)	
		(i.e raptors	Medium				(6)
		and	probability				
		scavenger					
		birds)					

Impact management/control measures may include but are not limited to the following:

- Using lead-free ammunition within farm boundaries;
- Create awareness on conservation of endangered species i.e., raptors and vultures; and
- Ensure that carcasses (where the bullet made an impact and fragmented) hunted with lead-based ammunitions are disposed- off properly.

7.5 IMPACTS ON THE ENVIRONMENT

7.5.1 GROUNDWATER IMPACTS

This section describes the potential risk of water abstractions on the Schaff River catchment water quantities (Figure 17). To conclude this section, mitigation management measures to reduce the impact are provided.

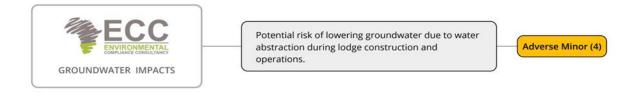


Figure 17 -Impacts related to water abstraction

Two existing boreholes will supply water required for the construction and operation of the lodge. Water will be pumped to six 10 000 litres Jojo plastic reservoir tanks at the construction site to meet an estimate demand of between 6000 to 10 000 litres per day during the construction phase. Overflow from the tank will be pumped to the existing artificial dam and water will not directly be abstracted from the boreholes and pumped to the dam. The water



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demand during lodge operations will approximately be 9000 to 12 000 litres per day. Water reservoir tanks are the only artificial water holding structures envisioned for this project and no new earth dams will be constructed.

However, the proposed project is within the proclaimed groundwater control area and most of the Project footprint's is in proximity of the Shaap catchment area which recharges the downstream Schaap River and is water sourced by most downstream farmers. There is a potential risk that excessive abstractions during the lodge operations will lead to lowering aquifer levels for downstream communities.

According to the Namibian Monitoring Information System and Hydrological Map of Namibia there are generally rock bodies with little to locally moderate groundwater potential and the groundwater vulnerability is considered to be low (Figure 18). According to (Bubenzer, 2002) the project area receives rainfall between 300-350 mm annually. In relation to rainfall associated with the area, groundwater recharge capacity is considered low (>0.5 – 1%, expressed as percent of the average annual rainfall) (Figure 18). Groundwater abstration over the project site is generally good with a rate that falls between >100-500 m³, whilst surrounding areas such Windhoek and Groot Aub have groundwater abstraction rates of >10000 – 16000 m³ and >5-10 m³, respectively (Figure 19)(https://www.uit-sensoweb.de/maptest.html).

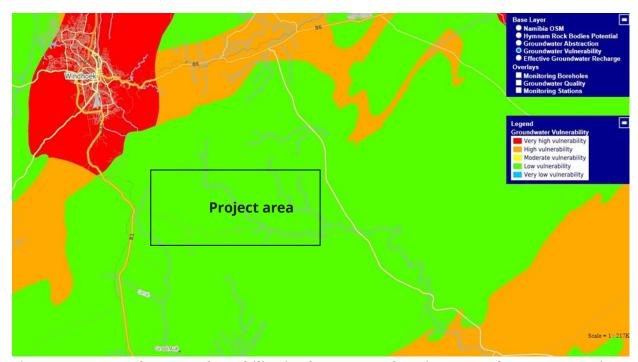


Figure 18 - Groundwater vulnerability in the proposed Project area (https://www.uit-sensoweb.de/maptest.html)



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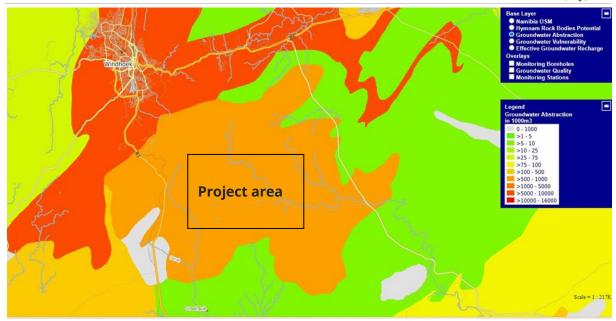


Figure 19 - Water abstraction rates in the proposed project area (https://www.uit-sensoweb.de/maptest.html)

The groundwater vulnerability over the proposed project area is considered low (Figure 18), thus the magnitude of change associated with the potential risk of lowering groundwater is ranked moderate, the sensitivity of impact is expected to be medium and localised due to the lodge proximity to the Shaap catchment area. Abstraction from two existing borehole will be regulated and closely monitored and water will not be pumped directly into the earth dams, but rather to six jojo 10 000 litre tanks. Feasible concurrent abstractions are not foreseen, and no new dams will be constructed. Therefore, over dependence on these two boreholes is not expected. The impact therefore deemed partly reversible given that mitigation management measures are implemented. Overall, the significance of impact is considered to be minor before mitigation and low after mitigation. A summary of the impact assessment rating is provided in Table 14.

Table 14 - Impacts related to potential lowering of groundwater

Activity	Receptor	Impact	Nature of	Value &	Magnitude	Significance	Impact
			impact	sensitivity	of change	of impact	after
							mitigation
Water	Groundwater	Potential	Adverse	Medium	Moderate		
abstraction		lowering of	Direct				
		groundwater	Partly				
		due to water	reversible			Adverse	Adverse
		abstraction	Long term			Moderate	Minor (4)
		during lodge	Local			(6)	Willion (4)
		construction	Medium				
		and	probability				
		operation.					



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The project area falls within a proclaimed groundwater control area, therefore impact management/control measures may include the following:

- Legalization of the two boreholes. In terms of Section 44 of the Water Resources Management Act No.11 of 2013, abstraction permits should be in place;
- Abstration rates should be monitored regularly;
- Boreholes rest water levels should be monitored regularly to monitor any irregular trends;
- Adopt a water- wise mindset on-site;
- Water leakages or pipe burst should be reported and fixed as soon as possible;
- Eco-friendly and low water use equipment should be used ie., eco-freindly showerheads and taps; and
- Activities that require a lot of water should be monitored to ensure water is used efficiently.

These mitigation measures will result in a low significance rating of the impact described.

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8 CONCLUSION

A scoping and impact assessment has been undertaken for the proposed development and construction of a tourism lodge on Farm Waldeck No.28, Khomas Region, Namibia. All aspects have been considered in the impact assessment and have been thoroughly investigated against planned activities. Potential significant impacts that may occur during the construction and operational phase of the project are impacts relating to occupational and community health and safety (noise generation), socioeconomic impacts, habitat destruction, habitat fragmentation, potential mismanagement of wildlife, potential lead poisoning risk for scavengers, especially critically endangered white-backed and white-headed vultures and abstraction leading to potential lowering of groundwater. Thus, these areas will need to be carefully monitored and managed according to the EMP, to ensure that the significance of these impacts are reduced as far as reasonably possible.

Table 15 summaries the impacts after mitigation. On a scale from 1 to 12, low to high, the beneficial (B) and negative (N) impact significance is stated.

Table 15 - Summary of the significance rating after mitigation for the expected impacts

Socioeconomic environment: economic	Socioeconomic environment: so	cial	Biophysical environment		
Impacts on temporal B4 job creation	Noise impacts	N4	Flora: Habitat destruction		
Impacts on permanent B6 job creation	ermanent B6		Fauna: Wildlife mismanagement	N2	
Job creation for 3 rd B3 parties.			Fauna: Habitat fragmentation	N4	
			Avifauna: Lead exposure and poisoning.	N6	
			Groundwater impacts	N4	

The assessment of this project on the current receiving environment has shown that the Project may have moderate, minor and beneficial impacts (Table 15). The potential impacts with regards to waste generation, increased traffic or people in the vicinity, fire risks, sewerage waste, visual impacts, risks concerning the removal of protected species are deemed as non- significant and are expected to be minor. However, these areas should still be managed as per requirements of the environmental management plan (EMP) to ensure that the Proponent complies with the relevant legislation, international standards and best practices.



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Waldeck (Pty) Ltd

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Waldeck (Pty) Ltd

APPENDIX A - ENVIRONMENTAL MANAGEMENT PLAN

ECC Report Nº: ECC-121-452-REP-10-D



Waldeck (Pty) Ltd

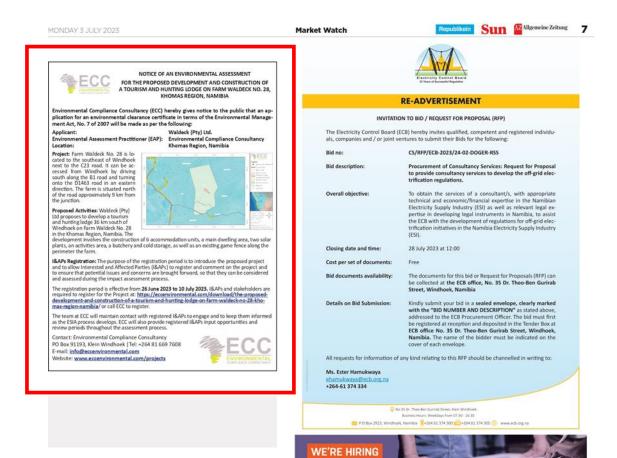
APPENDIX B - BACKGROUND INFORMATION DOCUMENT

ECC Report Nº: ECC-121-452-REP-10-D



Waldeck (Pty) Ltd

APPENDIX C - PUBLIC PARTICIPATION





SUN KARROS LIFESTYLE SAFARIS P O BOX 22927 WINDHOEK

EXECUTIVE CHEE

The successful incumbent will report to the Lodge Manager. We are looking for an experienced, creative, and passionate Executive Chief to join our tearn. As Executive Chief, you will run the back-of-house. In wall imanage the daily operations of the bitchen, owerse the bitchen staft, provide training and to ensure that the highest quality of cusine is served to our guests, and ensure that all food and labor out opicials are met at our exhabilishments country-vide.

MINIMUM REQUIREMENTS

- MINIMUM REQUIREMENTS

 Grade 12

 Culinary Arts degree and/or other culinary certification with at least 20 years' experience in the kitchen.

 10 years experience in a head chef or managerial kitchen position at high-end luxury remote lodge.

 Excellent time management and organizational skills.

 Excellent time management and organizational skills.

 Expert problem solver who thrives under pressure.

 Expert problem solver who thrives under pressure.

 Top of the line customer service skills.

 Expert skills and experience planning, designing, and preparing meals international culinary knowledge and skills.

 Training skills.

 Valid driver's license will be advantageous

KEY FUNCTIONS

- Development and implementation of innovative menus to optimize international guest satisfaction and retention while leading staff training initiatives Direct bitchen operations, including food preparation, cooking, and cleanup Assign tasks; supervise chefs and cooks in the preparation and presentation of food Prepare international standard food Maintain control of the kitchen to ensure that all tasks are carried out efficiently and

- Managaria to execute the discrete selectively. Make sure that all kitchen and waiting staff adhere to food safety and hygiene regulations to eccure a clean and sanitary kitchen. Plan menus and set prices, making adjustment as needed based on the availability of ingredients.
- ingredients inspect raw and cooked food items to guarantee that the highest quality products are
- prepared and served to customers
 Collaborate with the General Manager and Owner to align kitchen operations with the
 overarching posit of the establishment
 Maintaining/raising the food's profit margins for your employer.
 Monitoring and controlling stock levels

Monitoring and Country
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CLOSING DATE: 07 July 2023
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- INTERPONENTIALITIES

 INDIGENIES SURPONENTIALITIES

 INDIGENIES SURP

- order to attract, develop and retain profitable business local, Multinotional and Local African Brokers.

 Ensure all technical aspects and administration functions of a train and marter the local teams and brokers on identified product lines. To assist in placing risks that fall outside of the scope of our treaty reinsurance, into other markets locally and oversion.

 In the processes, including co-ordination thereof.

- thereof

 WooGawarimo/felsa AMAU'ssi:

 Analysa susitative and sacritative
 data to a control of the sacritative
 data to provide approved for risk
 selection and acceptance, coverage
 and price.

 Recommend creative diternatives in
 regards to rating plans, coverage and
 payment plans.

 Recommend to provide a commend on
 productivity, profitability, grewth and
 the quality of assigned book of
 business.

 Decline unsuitable risks

 Ensure that policy transactions are
 Finuse that policy transactions are
 concreted oncurretely and in a timely manner by
 rating and/or capturing transactions
 to the core business system.

RELATIONSHIP MANAGEMENT: Interact on a day-to-day basis with brokers, Partners and IV Partners. Customer service Effective communication Market Intelligence

- navation ontinuous Process Improvement nplayee Grawth

HRED QUALIFICATIONS

Business degree or similar insurance

qualification • RE and FAIS compliance

For the full lab description, please visit our website https://www.hollard.com.na/careers

Review Date: 14 July 2023

Hollard



Waldeck (Pty) Ltd

Republikein Sun WAllgemeine Zeitung 3 MONDAY 26 JUNE 2023 Market Watch

Econom Exchange	ic Indicators Rates	S		Forward Co	over			
Currency	Spot	Currency	Spot		1M	3M	6M	12M
USD/NAD	18.6528	NAD/AUD	0.080068	USD/ZAR	18.7153	18.8340	19.0055	19.3516
EUR/NAD	20.24263	NAD/NZD	0.087371	EURO/ZAR	379.0532	381.5236	385.0856	392.2755
GBP/NAD	23.69994	NAD/BWP	0.7216543	GBP/ZAR	443.7659	446.5843	450.6512	458.7350
NAD/CHF	0.3837177	NAD/JPY	7.67	ZAR/JPY	7.6099	7.4890	7.3139	6.9778

Please call your Private Banker or alternatively SMS PMM to 34778

ng taxstill to be applied



>> COMPANY NEWS IN BRIFF

SHOCKS MR PRICE

Mr Price's somewhat slower ap-proach in insulating itself from the threat of load shedding came back to haunt it in 2023, with the value retailer saying having just over a third of its store base covered by

third of its store base covered by backup power helped shave off more than R1 billion in revenue.

A massive increase in its store base, including through the acquisition of Studio 88, helped lift group revenue 17% to R32.9 billion in the year to 1 April, but core profit only grew 5.4% to R7.2 billion.
The retailer, valued at about R35

billion on the JSE, said it was hit by a billion on the JSE, said it was hit by a "significant increase" in load shed-ding in its second half which "heavily impacted the most important festive trading months".

At the end of September, back-up

At the end of September, back-up power was only available in 37% of its core business, with Mr Price saying the group had been "conservative in its back-up power investment" because the "historical implementation of load shedding was manageable until September 2022", If acquisitions were included, a total of 58% of the store footprint had back up power.

back up power. Mr Price said that between September and March this year, the



"cumulative quantum of load shedding" had been more than the pre-vious 15 years combined, resulting in an estimated annual loss of 318 000 trading hours or R1 billion in revenue.

will be funded through equity by Aramco and TotalEnergies.
The complex will enable Saudi
Arabia's SATORP refinery to
convert internally produced offgases and naphtha, as well as ethane and natural gasoline supplied by Aramco, into higher value

It will have the capacity to produce 1.65 million tonnes per annum of ethylene and other industrial gases, Aramco said. "As part of Aramco's growth strat-

egy, the project is anticipated opportunities in the kingdom's downstream ecosystem," Aramco president Amin Nasser said at the signing ceremony.

ARAMCO, TOTALENERGIES IN US\$11BN DEAL Saudi Aramco and France's TotalEn-

Saudi Aramco and Frances i otalin-ergies on Saturday signed contracts to start building a US\$11 billion petrochemicals facility in the Gulf kingdom. The project, first announced in 2018,

represents an investment of around US\$11 billion, of which US\$4 billion



The Road Fund Administration (RFA) is a statutory organisation established under Act 18 of 1999 to manage the Namibian Road User Charging System (RUCS) to secure the funding required to achieve a safe and efficient road network in Namibia.

INTERNSHIP OPPORTUNITY

As a national institution, the RFA would like to ensure skills exposure to Namibian students and graduates. The RFA herewith invites final year students looking for an internship to graduate or graduate interns to apply for practical exposure in the following fields:

FIELD OF STUDY	REQUIREMENTS
Computer Science (specifically Software Development/Programming and Mobile Development)	Namibian citizenship Final year student OR Graduate
Accounting (specialising in Auditing)	
Procurement/Supply Chain Management	Proof of registration at a recognised tertiary institution
Property Studies/Facility Management and Fleet Management	Tertiary qualification/programme relevant to listed fields
• Law	Certified copy of latest examination
- Finance (specialising in Accounting)	results and/or academic record
Human Resources	Certified copy of Namibian ID
- Marketing	
- Communication	curriculum vitae (CV)

Enquiries: Ms. Chalwa Kasika on 061 433 3062 Closing date for applications: 07 July 2023 at 17h00

All applications should be addressed to the Manager: Human Capital, Road Fund Administration Private Bag 13372, Ausspannplatz. Applications can be hand-delivered at the Road Fund Administration Head Office, 21 Feld Street, Windhoek, or emailed to recruitment@rfanam.com.na Faxed and/or late applications will not be considered.

Road Fund Administration 21 Feld Street, Windhoek - Tel: +264 61 433 3000 - E-mail: info@rfanam.com.na - W



NOTICE OF AN ENVIRONMENTAL ASSESSMENT

FOR THE PROPOSED DEVELOPMENT AND CONSTRUCTION OF A TOURISM AND HUNTING LOGG ON FARM WALDECK NO. 28, KHOMAS REGION, NAMIBIA

Environmental Compliance Consultancy (ECC) hereby gives notice to the public that an ap-plication for an environmental clearance certificate in terms of the Environmental Manage-ment Act, No. 7 of 2007 will be made as per the following:

Applicant: Waldeck (Pty) Ltd.
Environmental Assessment Practitioner (EAP): Environmental Compliance Col
Location: Khomas Region, Namibia

Location:

Project Farm Waldeck No. 28 is focated to the southeast of Windhoek
next to the C23 road. It can be accessed from Windhoek by dringsouth along the B1 road and turning
south along the B1 road and turning
not the D1463 road in an eastern
direction. The farm is situated north
of the road approximately 9 km from
the Junction.

the junction.

Proposed Activities: Waldeck (Pty)
Itd proposes to develop a tourism
and hunting lodge 36 km south of
Windhoek on Farm Waldeck No. 28
in the Khomas Region, Namibia. The
development involves the construction of 6 accommodation units, a main dwelling area, two solar
plants, an activities area, a butchery and cold storage, as well as an existing game fence along the

1&APs Registration: The purpose of the registration period is to introduce the proposed project and to allow interested and Affected Parties (!&APs) to register and comment on the project and to ensure that potential issues and concerns are brought forward, so that they can be considered and assessed during the impact assessment process.

The registration period is effective from 26 June 2023 to 10 July 2023. I&APs and stakeholders are required to register for the Project at: ECC to register.

The team at ECC will maintain contact with registered I&APs to engage and to keep them informed as the ESIA process develops. ECC will also provide registered I&APs input opportunities and review periods throughout the assessment process.

Contact: Environmental Compliance Consultancy PO Box 91193, Klein Windhoek | Tel: +264 81 669 7608 E-mail: info@eccenvironmental.com Website: www.eccenvironmental.com/projects





Site notices









GPS coordinates:

-22.777012, 17.221327



Waldeck (Pty) Ltd

APPENDIX D - NBRI SPECIES LIST

NP= not protected, LC= least concern, E= endemic, NE= near endemic, II= Appendix II, DD= data deficient, P= protected under Nature Conservation Ordinance Act No.4 of 1975, NT= near threatened, FP= protected under Forest Act No.12 of 2001

Species	Endemism	Protected	IUCN	CITES
Aizoon giessii	Е	NP	LC	
Aizoon virgatum		NP	LC	
Galenia africana				
Galenia papulosa		NP	LC	
Plinthus sericeus		NP		
Tetragonia arbuscula		NP		
Tetragonia calycina		NP		
Zaleya pentandra		NP		
Achyranthes aspera		NP		
Aerva leucura		NP		
Alternanthera pungens		NP		
Amaranthus deflexus		NP		
Amaranthus		NP		
praetermissus				
Amaranthus spinosus		NP		
Guilleminea densa		NP		
Hermbstaedtia		NP	LC	
argenteiformis				
Hermbstaedtia odorata		NP		
Kyphocarpa angustifolia		NP		
Leucosphaera bainesii		NP	LC	
Nelsia quadrangula		NP		
Pupalia lappacea		NP		
Sericorema remotiflora				
Sericorema sericea		NP		
Ozoroa crassinervia		NP		
Schinus molle		NP		
Chlorophytum		NP		
calyptrocarpum				
Chlorophytum		NP		
krauseanum				
Searsia lancea		NP		
Searsia marlothii		NP		
Searsia pendulina		NP		
Searsia pyroides		NP		



Species	Endemism	Protected	IUCN	CITES
Boophone disticha		NP		
Nerine laticoma		NP	LC	
Pancratium tenuifolium		NP		
Crinum lugardiae		NP		
Crinum walteri		NP		
Barleria lanceolata	Е	NP	LC	
Barleria lancifolia		NP		
Barleria rigida		NP	LC	
Blepharis integrifolia		NP		
Blepharis mitrata		NP	LC	
Blepharis obmitrata		NP	LC	
Dicliptera eenii		NP		
Dyschoriste pseuderecta		NP		
Hypoestes forskaolii		NP		
Justicia protracta		NP		
Megalochlamys marlothii		NP	LC	
Monechma divaricatum		NP		
Monechma genistifolium	Е	NP		
Monechma leucoderme	NE	NP		
Peristrophe	Е	NP	LC	
grandibracteata				
Peristrophe hereroensis	Е	NP	LC	
Pachypodium lealii	NE	Р	VU	II
Brachystelma	E	NP	LC	
blepharanthera				
Huernia oculata	NE	Р		
Piaranthus decipiens		Р	DD	
Fockea angustifolia		NP		
Orbea lugardii	NE	Р	DD	
Cynanchum orangeanum		NP	LC	
Asclepias aurea		NP		
Pentarrhinum insipidum		NP	LC	
Tavaresia barklyi		Р		
Orthanthera jasminiflora		NP	LC	
Raphionacme lanceolata		NP		
Raphionacme velutina		NP		
Gomphocarpus fruticosus		NP		
Gomphocarpus		NP		
tomentosus				
Orbea lutea	NE	Р		



Species	Endemism	Protected	IUCN	CITES
Pergularia daemia		NP		
Stapelia schinzii	Е	Р		
Cyclospermum		NP		
leptophyllum				
Heteromorpha papillosa	Е	NP	LC	
Peucedanum upingtoniae		NP		
Steganotaenia araliacea		NP		
Asparagus cooperi		NP		
Asparagus Iaricinus		NP		
Asparagus nelsii		NP		
Aloe hereroensis		Р		II
Aloe striata		Р		II
Aloe zebrina		Р		II
Bulbine capitata		NP		
Gasteria pillansii		Р		
Trachyandra saltii		NP		
Asplenium cordatum		NP		
Erucastrum arabicum		NP		
Heliophila carnosa		NP	LC	
Lepidium africanum		NP		
Sisymbrium burchellii		NP		
Gomphostigma virgatum		NP		
Commiphora glandulosa		NP	LC	
Opuntia ficus-indica		NP		
Opuntia stricta		NP		
Namacodon schinzianum	Е	NP	LC	
Wahlenbergia androsacea		NP	LC	
Wahlenbergia denticulata		NP		
Wahlenbergia undulata		NP		
Boscia albitrunca		FP	LC	
Cleome angustifolia		NP		
Cleome elegantissima		NP		
Cleome gynandra		NP		
Cleome monophylla		NP		
Cleome oxyphylla		NP		
Cleome rubella		NP		
Maerua juncea		NP		
Maerua schinzii		FP	LC	
Ornithoglossum vulgare		NP		
Commelina africana		NP		



Species	Endemism	Protected	IUCN	CITES
Commelina benghalensis		NP		
Commelina livingstonii		NP		
Combretum apiculatum		NP		
Convolvulus argillicola	Е	NP		
Convolvulus sagittatus		NP		
Cuscuta campestris		NP		
Cuscuta hyalina		NP		
Cuscuta planiflora		NP		
Evolvulus alsinoides		NP		
Ipomoea bolusiana		NP		
Ipomoea crassipes		NP		
Ipomoea hochstetteri		NP		
Ipomoea holubii		NP		
Ipomoea oblongata		NP		
Ipomoea obscura		NP		
Ipomoea oenotherae		NP		
Ipomoea sinensis		NP		
Ipomoea suffruticosa		NP		
Ipomoea verbascoidea		NP		
Merremia palmata		NP		
Seddera suffruticosa		NP		
Xenostegia tridentata		NP		
Adromischus schuldtianus	Е	Р		
Crassula capitella		Р		
Crassula cotyledonis		Р	LC	
Crassula dependens		Р	DD	
Crassula lanceolata		Р		
Crassula nemorosa		Р	LC	
Crassula rhodesica		Р	LC	
Crassula subaphylla		Р		
Crassula tabularis		NP		
Kalanchoe brachyloba		NP		
Kalanchoe lanceolata		NP		
Kalanchoe rotundifolia		NP		
Citrullus lanatus		NP		
Coccinia sessilifolia		NP		
Corallocarpus schinzii		NP	LC	
Corallocarpus welwitschii		Р		
Cucumis africanus		NP		
Cucumis meeusei		NP		



Species	Endemism	Protected	IUCN	CITES
Kedrostis africana		NP		
Kedrostis foetidissima		NP		
Trochomeria macrocarpa		NP		
Zehneria marlothii		NP		
Cyperus congestus		NP		
Cyperus laevigatus		NP		
Cyperus margaritaceus		NP		
Cyperus marginatus		NP		
Cyperus schinzii		NP		
Cyperus squarrosus		NP		
Fuirena pubescens		NP		
Kyllinga alba		NP		
Scirpoides dioecus		NP		
Scabiosa columbaria		NP		
Sansevieria longiflora		NP		
Sansevieria pearsonii		NP	LC	
Diospyros lycioides		NP		
Diospyros lycioides		NP		
Euclea undulata		NP		
Eriospermum bakerianum		NP		
Eriospermum		NP		
flagelliforme				
Eriospermum mackenii		NP		
Eriospermum rautanenii		NP	LC	
Eriospermum roseum		NP	LC	
Acalypha segetalis		NP		
Croton gratissimus		NP		
Euphorbia austro-		NP		II
occidentalis				
Euphorbia cyathophora		NP		II
Euphorbia helioscopia		NP		
Euphorbia hirta		NP		II
Euphorbia inaequilatera		NP		
Euphorbia monteiroi	Е	NP		
Euphorbia prostrata		NP		II
Euphorbia spartaria	Е	NP	DD	П
Euphorbia virosa				
Phyllanthus		NP		
maderaspatensis				
Phyllanthus pentandrus		NP		



Species	Endemism	Protected	IUCN	CITES	
Catophractes alexandri		NP	LC		
Rhigozum trichotomum		NP			
Anchusa capensis		NP			
Cordia sinensis		NP	LC		
Ehretia alba		NP			
Ehretia namibiensis	Е	NP			
Heliotropium ciliatum		NP			
Lithospermum cinereum		NP			
Trichodesma		NP			
angustifolium					
Myriophyllum aquaticum		NP			
Albuca abyssinica		NP			
Albuca amboensis		NP	DD		
Albuca fleckii		NP	DD		
Albuca maxima		NP	R		
Albuca viscosa		NP	DD		
Dipcadi glaucum		NP			
Dipcadi longifolium		NP			
Dipcadi papillatum		NP			
Dipcadi platyphyllum		NP			
Dipcadi viride		NP			
Drimia sanguinea		NP			
Ledebouria floribunda		NP			
Ornithogalum pulchrum		NP	LC		
Ornithogalum tenuifolium		NP			
Pseudogaltonia clavata		NP			
Hydnora abyssinica		NP			
Hypericum lalandii		NP			
Hypoxis iridifolia		NP			
Pollichia campestris		NP			
Babiana hypogea		NP			
Ferraria glutinosa		NP	LC		
Gladiolus permeabilis		NP			
Gladiolus saccatus		NP	LC		
Lapeirousia avasmontana	Е	NP			
Lapeirousia coerulea		NP			
Moraea polystachya		NP	NT		
Juncus rigidus		NP			
Acrotome fleckii	Е	NP	LC		
Acrotome inflata		NP			



Species	Endemism	Protected	IUCN	CITES
Acrotome pallescens		NP		
Leonotis ocymifolia		NP		
Leonotis schinzii		NP		
Leucas glabrata		NP		
Leucas pechuelii	NE	NP		
Ocimum americanum		NP		
Ocimum filamentosum		NP		
Plectranthus dinteri	E	NP	LC	
Salvia stenophylla		NP		
Salvia verbenaca		NP		
Tetradenia riparia		NP		
Lemna aequinoctialis		NP		
Lobelia erinus		NP	LC	
Agelanthus discolor	E	NP	LC	
Plicosepalus		NP	LC	
kalachariensis				
Plicosepalus undulatus		NP	LC	
Tapinanthus oleifolius		NP	LC	
Sphedamnocarpus		NP		
pruriens				
Abutilon austro-africanum		NP		
Abutilon fruticosum		NP		
Abutilon pycnodon		NP		
Abutilon rehmannii		NP		
Gossypium herbaceum		NP	LC	
Hibiscus calyphyllus		NP		
Hibiscus dinteri	Е	NP		
Hibiscus discophorus	Е	NP		
Hibiscus fleckii	Е	NP		
Hibiscus palmatus		NP		
Hibiscus pusillus		NP		
Hibiscus sulfuranthus	Е	NP		
Hibiscus trionum		NP		
Malva verticillata		NP		
Malvastrum		NP		
coromandelianum				
Pavonia burchellii		NP		
Sida chrysantha		NP		
Sida ovata		NP		
Melianthus comosus		NP		



Species	Endemism	Protected	IUCN	CITES
Antizoma angustifolia		NP	LC	
Ebracteola montis-moltkei	Е	Р		
Psilocaulon coriarium		NP		
Psilocaulon granulicaule		NP		
Hilliardiella oligocephala		NP		
Linzia glabra		NP		
Polydora poskeana		NP		
Glinus lotoides		NP		
Hypertelis bowkeriana		NP	LC	
Hypertelis salsoloides		NP		
Limeum argute-carinatum		NP		
Limeum myosotis		NP		
Limeum pterocarpum		NP		
Limeum sulcatum		NP		
Montinia caryophyllacea		NP		
Ficus cordata		FP		
Moringa ovalifolia	NE	Р	LC	
Boerhavia coccinea		NP		
Boerhavia erecta		NP		
Boerhavia repens		NP		
Commicarpus decipiens	Е	NP	DD	
Commicarpus pentandrus		NP		
Phaeoptilum spinosum		NP		
Olea europaea		NP		
Oenothera indecora		NP		
Oenothera rosea		NP		
Ophioglossum		NP		
polyphyllum				
Ansellia africana		Р	LC	II
Eulophia speciosa		Р	LC	II
Alectra orobanchoides		NP		
Alectra pseudobarleriae		NP	DD	
Striga bilabiata		NP		
Striga gesnerioides		NP		
Oxalis depressa		NP		
Oxalis purpurascens		NP		
Argemone ochroleuca		NP		
Adenia repanda		NP	LC	
Harpagophytum		Р		
procumbens				



Species	Endemism	Protected	IUCN	CITES
Rogeria bigibbosa	E	NP	LC	
Sesamum capense		NP	LC	
Sesamum triphyllum		NP		
Lophiocarpus		NP	LC	
polystachyus				
Polygala albida		NP		
Polygala leptophylla		NP		
Polygala uncinata		NP		
Emex australis		NP		
Oxygonum alatum		NP		
Oxygonum sinuatum		NP		
Persicaria hystricula		NP		
Persicaria lapathifolia		NP		
Polygonum aviculare		NP		
Polygonum kitaibelianum		NP		
Polygonum plebeium		NP		
Rumex lanceolatus		NP		
Rumex sagittatus		NP		
Portulaca kermesina		NP		
Talinum arnotii		NP		
Talinum tenuissimum		NP		
Adiantum capillus		NP		
Cheilanthes hirta		NP		
Cheilanthes involuta		NP		
Cheilanthes marlothii		NP		
Cheilanthes multifida		NP		
Cheilanthes parviloba		NP		
Pellaea calomelanos		NP		
Andropogon chinensis		NP		
Andropogon schirensis		NP		
Anthephora pubescens		NP		
Anthephora schinzii		NP		
Aristida adscensionis		NP		
Aristida congesta		NP		
Aristida effusa		NP		
Aristida meridionalis		NP		
Aristida rhiniochloa		NP		
Arundo donax		NP		
Brachiaria nigropedata		NP		
Brachiaria serrata		NP		



Species	Endemism	Protected	IUCN	CITES
Bromus catharticus		NP		
Cenchrus ciliaris		NP		
Chloris virgata		NP		
Cymbopogon caesius		NP	LC	
Cymbopogon dieterleniae		NP		
Cymbopogon pospischilii		NP		
Cynodon dactylon		NP		
Dactyloctenium		NP		
aegyptium				
Danthoniopsis ramosa		NP		
Digitaria seriata		NP		
Diheteropogon filifolius		NP		
Eleusine africana		NP		
Elionurus muticus		NP		
Enneapogon cenchroides		NP	LC	
Enneapogon desvauxii		NP		
Eragrostis annulata		NP		
Eragrostis biflora		NP		
Eragrostis curvula		NP		
Eragrostis echinochloidea		NP		
Eragrostis lehmanniana		NP		
Eragrostis macrochlamys		NP		
Eragrostis nindensis				
Eragrostis omahekensis	Е	NP		
Eragrostis pilgeriana		NP		
Eragrostis pilosa		NP		
Eragrostis porosa		NP	LC	
Eragrostis rotifer		NP		
Eragrostis sclerantha		NP		
Eragrostis scopelophila	Е	NP		
Eragrostis stapfii		NP		
Eragrostis superba		NP		
Eragrostis tef		NP		
Eragrostis trichophora		NP		
Eragrostis truncata		NP		
Fingerhuthia africana		NP	LC	
Heteropogon contortus		NP		
Hyparrhenia hirta		NP		
Leptochloa fusca		NP		
Melinis nerviglumis		NP		



Species	Endemism	Protected	IUCN	CITES
Melinis repens		NP		
Microchloa caffra		NP	LC	
Microchloa kunthii		NP		
Monelytrum		NP		
luederitzianum				
Oropetium capense		NP		
Panicum arbusculum		NP		
Panicum maximum		NP	LC	
Paspalum vaginatum		NP		
Pennisetum clandestinum		NP		
Poa annua		NP		
Pogonarthria fleckii		NP	LC	
Pogonarthria squarrosa		NP	LC	
Schizachyrium jeffreysii		NP	LC	
Schmidtia kalahariensis		NP	LC	
Schmidtia		NP	LC	
pappophoroides				
Setaria finita	Е	NP		
Setaria italica		NP		
Setaria pumila		NP		
Setaria verticillata		NP	LC	
Sorghum bicolor		NP		
Sporobolus fimbriatus		NP	LC	
Sporobolus ioclados		NP	LC	
Sporobolus rangei		NP	LC	
Stipagrostis ciliata		NP	LC	
Stipagrostis hirtigluma		NP		
Stipagrostis hirtigluma		NP		
Stipagrostis namaquensis		NP		
Stipagrostis obtusa		NP	LC	
Stipagrostis uniplumis		NP		
Stipagrostis uniplumis		NP		
Themeda triandra		NP	LC	
Tragus berteronianus		NP	LC	
Tragus racemosus		NP	LC	
Trichoneura grandiglumis		NP	LC	
Triraphis ramosissima		NP		
Tristachya rehmannii		NP		
Urochloa brachyura		NP	LC	
Urochloa oligotricha		NP	LC	



Species	Endemism	Protected	IUCN	CITES
Urochloa panicoides		NP	LC	
Clematis brachiata		NP		
Ranunculus multifidus		NP		
Ziziphus mucronata		NP		
Anthospermum		NP		
spathulatum				
Kohautia caespitosa		NP		
Rubia horrida		NP		
Walleria nutans		NP		
Gnidia polycephala		NP		
Passerina montana		NP		
Corchorus asplenifolius		NP		
Grewia flava		NP		
Grewia flavescens		NP		
Forsskaolea candida		NP	LC	
Forsskaolea viridis		NP	LC	
Obetia carruthersiana	NE	NP	LC	
Xerophyta humilis		NP		
Xerophyta viscosa		NP		
Chascanum pinnatifidum		NP		
Lantana angolensis		NP		
Lantana dinteri		NP	LC	
Lantana rugosa		NP		
Verbena litoralis		NP		
Hybanthus densifolius		NP		
Viscum rotundifolium		NP	LC	
Cissus quadrangularis		NP		
Cyphostemma congestum		NP	LC	
Cyphostemma currorii		Р	NT	
Cyphostemma hereroense		NP	LC	
Cyphostemma juttae	Е	Р	VU	
Cyphostemma uter	NE	Р	NT	
Welwitschia mirabilis	NE	Р	LC	II
Tribulus zeyheri		NP		
Osyris lanceolata		NP	LC	
Thesium xerophyticum	Е	NP	NT	
Thesium zeyheri		NP		
Cardiospermum corindum		NP		
Dodonaea viscosa		NP		



Species	Endemism	Protected	IUCN	CITES
Aptosimum		NP	LC	
albomarginatum				
Aptosimum arenarium	Е	NP	LC	
Aptosimum elongatum		NP		
Aptosimum lugardiae		NP		
Aptosimum spinescens		NP		
Craterostigma		NP	LC	
plantagineum				
Diclis petiolaris		NP		
Jamesbrittenia canescens		NP		
Jamesbrittenia canescens		NP		
Jamesbrittenia huillana		NP		
Jamesbrittenia		NP		
integerrima				
Jamesbrittenia lyperioides	Е	NP		
Jamesbrittenia maxii		NP		
Jamesbrittenia tenella		NP		
Manulea conferta		NP		
Manulea dubia	Е	NP	LC	
Manuleopsis dinteri	Е	NP	LC	
Mimulus gracilis		NP		
Nemesia lilacina		NP		
Peliostomum		NP		
leucorrhizum				
Selago albomarginata		NP	LC	
Selago alopecuroides		NP	LC	
Selago dinteri		NP		
Sutera patriotica		NP		
Datura ferox		NP		
Datura inoxia		NP		
Lycium bosciifolium		NP	DD	
Lycium eenii		NP	DD	
Lycium hirsutum		NP	DD	
Lycium villosum		NP	DD	
Nicotiana glauca		NP		
Solanum burchellii		NP		
Solanum capense		NP		
Solanum catombelense		NP		
Solanum dinteri	Е	NP	LC	
Solanum lichtensteinii		NP		



Species	Endemism	Protected	IUCN	CITES
Solanum		NP		
multiglandulosum				
Solanum nigrum		NP		
Solanum rigescens		NP		
Solanum rigescentoides	Е	NP	LC	
Solanum seaforthianum		NP		
Solanum supinum		NP		
Withania somnifera		NP		
Dombeya rotundifolia		NP	LC	
Hermannia abrotanoides		NP		
Hermannia affinis		NP		
Hermannia bicolor		NP		
Hermannia comosa		NP		
Hermannia minutiflora	NE	NP		
Hermannia modesta		NP		
Hermannia quartiniana		NP		
Hermannia rautanenii		NP		
Hermannia tomentosa		NP		
Melhania acuminata		NP		
Melhania damarana		NP		
Melhania virescens		NP		
Waltheria indica		NP		
Dianthus namaensis		NP		
Atriplex lindleyi		NP		
Atriplex nummularia		NP		
Atriplex semibaccata		NP		
Atriplex suberecta		NP		
Chenopodium amboanum	Е	NP	DD	
Chenopodium		NP		
ambrosioides				
Chenopodium olukondae		NP		
Chenopodium pumilio		NP		
Chenopodium		NP		
schraderianum				
Salsola kali		NP		
Salsola mirabilis	Е	NP	DD	
Anisopappus pinnatifidus		NP	LC	
Antiphiona pinnatisecta	Е	NP	LC	
Arctotis venusta		NP		
Artemisia afra		NP		



Species	Endemism	Protected	IUCN	CITES
Aspilia eenii		NP		
Berkheya spinosissima		NP		
Bidens biternata		NP		
Bidens pilosa		NP		
Calostephane divaricata		NP		
Chrysocoma obtusata		NP		
Cineraria canescens		NP		
Cineraria vallis-pacis		NP		
Conyza bonariensis		NP		
Cotula anthemoides		NP		
Dicoma anomala		NP		
Dicoma capensis		NP	DD	
Dicoma dinteri	Е	NP	DD	
Dicoma macrocephala		NP		
Dicoma schinzii		NP		
Dicoma tomentosa		NP		
Didelta carnosa		NP		
Doellia cafra		NP		
Emilia marlothiana		NP		
Eriocephalus dinteri	Е	NP	LC	
<i>Eriocephalus</i>		NP		
luederitzianus				
Felicia anthemidodes		NP		
Felicia clavipilosa		NP		
Felicia muricata				
Flaveria bidentis		NP		
Galinsoga parviflora		NP		
Garuleum schinzii		NP		
Geigeria acaulis		NP	LC	
Geigeria alata		NP	LC	
Geigeria odontoptera	E	NP	LC	
Geigeria ornativa		NP	DD	
Geigeria pectidea		NP	LC	
Geigeria plumosa	E	NP	LC	
Geigeria rigida	E	NP	DD	
Geigeria schinzii		NP	DD	
Gnaphalium confine		NP		
Helichrysum		NP		
argyrosphaerum				



Species	Endemism	Protected	IUCN	CITES
Helichrysum		NP		
candolleanum				
Helichrysum cerastioides		NP		
Helichrysum herniarioides		NP		
Helichrysum obtusum		NP		
Helichrysum pumilio		NP		
Helichrysum		NP	LC	
tomentosulum				
Helichrysum zeyheri		NP		
Hirpicium gazanioides		NP		
Hirpicium gorterioides		NP	DD	
Kleinia longiflora		NP		
Lactuca serriola		NP		
Laggera crispata		NP		
Laggera decurrens		NP		
Launaea intybacea		NP		
Litogyne gariepina		NP		
Lopholaena cneorifolia		NP		
Nidorella resedifolia		NP		
Nidorella resedifolia		NP		
Nolletia gariepina		NP		
Nolletia tenuifolia	Е	NP	DD	
Oncosiphon grandiflorum		NP		
Ondetia linearis	Е	NP	LC	
Osteospermum		NP		
karrooicum				
Osteospermum	Е	NP	LC	
montanum				
Osteospermum		NP	LC	
muricatum				
Osteospermum		NP		
muricatum				
Pechuel-loeschea		NP		
Pegolettia oxyodonta	NE	NP	LC	
Pegolettia pinnatilobata	Е	NP	LC	
Pegolettia retrofracta		NP	LC	
Pegolettia senegalensis		NP	LC	
Pentatrichia petrosa	NE	NP		
Pentzia calva		NP		
Pentzia incana		NP		



Species	Endemism	Protected	IUCN	CITES
Pentzia monocephala		NP		
Pentzia pinnatisecta		NP		
Pentzia spinescens		NP		
Pseudognaphalium luteo-		NP		
album				
Pteronia cylindracea		NP		
Pteronia eenii	Е	NP	LC	
Pteronia glauca		NP		
Rennera eenii	Е	NP	NT	
Schkuhria pinnata		NP		
Senecio cinerascens		NP		
Senecio consanguineus		NP		
Senecio eenii		NP		
Senecio engleranus	Е	NP	LC	
Senecio hieracioides		NP		
Senecio inaequidens		NP		
Senecio pinguifolius		NP		
Senecio sarcoides		NP		
Senecio windhoekensis	Е	NP		
Sonchus asper		NP		
Sonchus oleraceus		NP		
Stoebe plumosa		NP		
Tagetes minuta		NP		
Tripteris aghillana		NP		
Tripteris microcarpa		NP		
Tripteris nervosa		NP		
Verbesina encelioides		NP		
Xanthium spinosum		NP		
Pentatrichia rehmii	Е	NP	LC	
Platycarphella carlinoides		NP		
Monsonia angustifolia		NP		
Monsonia burkeana		NP		
Monsonia glauca		NP		
Monsonia senegalensis		NP		
Pelargonium dolomiticum		NP		
Gisekia africana		NP		
Gisekia pharnacioides		NP		
Acacia erubescens		NP	LC	
Acacia galpinii		NP		
Acacia haematoxylon		FP		



Species	Endemism	Protected	IUCN	CITES
Acacia hebeclada		NP		
Acacia hereroensis		NP	LC	
Acacia karroo		NP	LC	
Acacia luederitzii		NP		
Acacia mellifera		NP		
Acacia reficiens		NP		
Acacia sieberiana		NP		
Acacia tortilis		NP		
Caesalpinia gilliesii		NP		
Chamaecrista biensis		NP		
Crotalaria argyraea		NP		
Crotalaria damarensis		NP		
Crotalaria dinteri		NP		
Crotalaria leubnitziana		NP		
Crotalaria podocarpa		NP		
Cullen tomentosum		NP		
Cyamopsis senegalensis		NP		
Dichrostachys cinerea		NP		
Dolichos trilobus		NP		
Elephantorrhiza		NP		
suffruticosa				
Erythrina decora	NE	FP	LC	
Indigastrum costatum		NP		
Indigastrum parviflorum		NP		
Indigofera alternans		NP		
Indigofera colutea		NP		
Indigofera cryptantha		NP		
Indigofera hochstetteri		NP		
Indigofera sordida		NP		
Indigofera vicioide		NP		
Lablab purpureus		NP		
Lessertia benguellensis		NP		
Lessertia pauciflora		NP		
Listia heterophylla		NP		
Lotononis calycina		NP		
Lotononis crumanina		NP		
Lotononis curtii		NP		
Lotononis pallidirosea	E	NP	DD	
Medicago laciniata		NP		
Melolobium calycinum		NP		



Species	Endemism	Protected	IUCN	CITES
Melolobium macrocalyx		NP		
Melolobium microphyllum		NP		
Otoptera burchellii		NP		
Parkinsonia aculeata		NP		
Ptycholobium biflorum		NP		
Requienia sphaerosperma		NP		
Rhynchosia minima		NP		
Rhynchosia namaensis		NP		
Rhynchosia sublobata		NP		
Rhynchosia totta		NP		
Rhynchosia venulosa		NP		
Senna italica		NP		
Senna pendula		NP		
Sutherlandia frutescens		NP		
Tephrosia burchellii		NP		
Tephrosia dregeana		NP		
Tephrosia rhodesica		NP		
Vigna frutescens		NP		
Vigna lobatifolia		NP		
Calobota obovata	Е	NP		
Leobordea furcata		NP		
Leobordea platycarpa		NP		
Cyperus palmatus		NP		
Cyperus decurvatus		NP		
Syncolostemon canescens		NP		
Syncolostemon bracteosus		NP		
Symphyotrichum		NP		
squamatum				
Lepidium englerianum		NP		
Cylindropuntia imbricata		NP		
Cylindropuntia rosea		NP		
Amaranthus hybridus		NP		
Rhipsalis baccifera		NP		
Chenopodium murale		NP		
Dovyalis caffra		NP		
Landoltia punctata		NP		
Amaranthus thunbergii		NP		
Symphyotrichum		NP		
subulatum				
Nolletia chrysocomoides		NP		



Species	Endemism	Protected	IUCN	CITES
Trianthema parvifolia		NP		
Emilia schinzii		NP		
Aptosimum lineare		NP		
Tridax procumbens		NP		
Cuscuta australis		NP		
Tenaxia stricta		NP		
Hypertelis cerviana		NP		
Maerua juncea		NP		
Vincetoxicum fleckii	Е	NP	LC	
Parapolydora fastigiata		NP		
Roepera pubescens		NP	LC	
Cyphostemma currorii		Р	NT	



Waldeck (Pty) Ltd

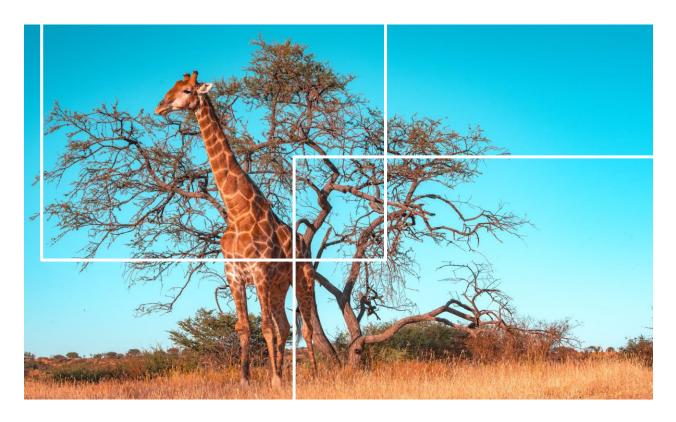
APPENDIX E - EAP CV'S



Proposed construction and development of a tourism and hunting lodge on Farm Waldeck No.28, Khomas Region, Namibia

Waldeck (Pty) Ltd

APPENDIX F - ADDENDUM REPORT



Submitted to: Waldeck (Pty) Ltd Attention: Mr. Constantin Fugger P O Box 21012, Olympia, Windhoek, Namibia

REPORT:

EMP FOR THE PROPOSED CONSTRUCTION AND DEVELOPMENT OF A TOURISM AND HUNTING LODGE ON FARM WALDECK NO.28, KHOMAS REGION, NAMIBIA

PROJECT NUMBER: ECC-121-455-REP-07-A

REPORT VERSION: REV 01

DATE: 26 OCTOBER 2023





TITLE AND APPROVAL PAGE

Project Name: EMP for the proposed construction and development of a

tourism and hunting lodge on Farm Waldeck No.28, Khomas

Region, Namibia

Client Company Name: Waldeck (Pty) Ltd

Authors: Samuel Shinyemba, Stephan Bezuidenhout and Jessica

Bezuidenhout

Status of Report: Final for Government submission

Project Number: ECC-121-455-REP-07-A

Date of issue: 26 October 2023

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ABBREVIATIONS

Abbreviation	Description
<	Less than
dB	decibels
ECC	Environmental Compliance Consultancy (Pty) Ltd
EIA	environmental impact assessment
EMP	environmental management plan
GPS	Global Positioning System
IFC	International Finance Corporation
Km/h	kilometre per hour
m	metre
MAWLR	Ministry of Agriculture, Water and Land Reform
MSDS	material safety data sheet
MEFT	Ministry of Environment, Forestry and Tourism
MME	Ministry of Mines and Energy
Ltd.	Limited
PPE	personnel protective equipment
Pty	proprietary
PV	photovoltaic
OSH	occupational safety health
SHE	safety health and environment
SNR	Signal Noise Ratio



1 INTRODUCTION

1.1 PROJECT BACKGROUND

Environmental Compliance Consultancy (ECC) has been contracted by Waldeck (Pty) Ltd (herein referred to as 'the Proponent') to conduct an environmental impact assessment (EIA) for the proposed construction and development of a hunting lodge and associated infrastructure on Waldeck Farm No.28, Khomas Region, Namibia.

Waldeck (Pty) Ltd propose to upgrade Farm Waldeck No.28 by developing a tourism and hunting lodge. The envisioned works include construction of 6 accommodation units (2 double units and 4 single units), a main common core area, two PV solar plants with a battery room, an activities area, staff village, demolition of the current dilapidated farmhouse and construction of a new 4-bedroom farmhouse and construction of a cold storage room, a butchery and a grey water treatment plant. The Proponent purchased a portion of Farm Iturea (a portion southeast of Farm Waldeck No.28), hence the boundary fence that is currently dividing the two farms will be removed. The entire farm boundary fence will also be renovated to a height of approximately 2.5 meters. Hunting particularly for trophy will be supervised strictly by registered Professional Hunters. All work will fall within the boundaries of Farm Waldeck No.28.

In addition to Farm Iturea, the Proponent signed a contractual purchase agreement with landowners of Farm Dornbaum No.74 and Bethlehem No.27/Rem 3. These portions are south and southeast of Farm Waldeck No.28. Once the portions have been procured, fully acquisitioned and transferred, an amendment to the environmental clearance certificate will be launched with the competent authority (Ministry of Environment, Forestry and Tourism). The EMP will be updated to address any impacts that may be associated with the land development works in these portions.

Farm Waldeck No. 28 is located approximately 36km south of Windhoek in the Windhoek Rural Constituency, Khomas Region, Namibia. The Project site can be accessed by driving south of Windhoek along the B1 road, turning and driving onto the D1463 district road for approximately 9 km. The location of Farm Waldeck No.28 and the purchased portion of Farm Iturea is shown in Figure 1.



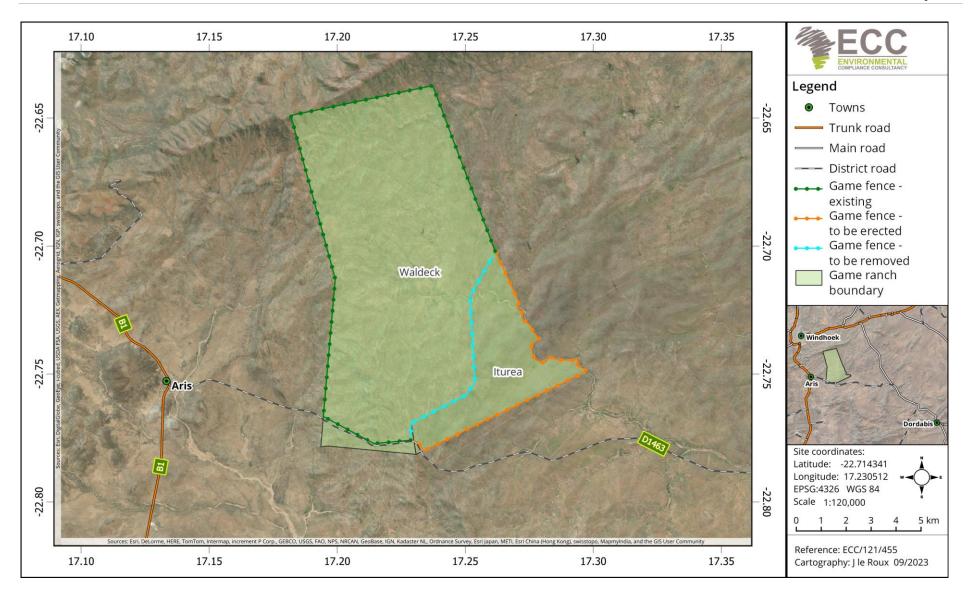


Figure 1: Location of Farm Waldeck No. 28 and Farm Iturea



1.2 Environmental regulatory requirements

The proposed project triggers listed activities as stipulated in the Environmental Management Act, No. 7 of 2007 and its Regulations, promulgated in 2012. An environmental scoping report, environmental impact assessment (EIA) and environmental management plan (EMP) are required to be submitted as part of the application to support the decision-making process for issuing an environmental clearance certificate.

This report presents the EMP and has been undertaken in terms of the requirements of the Environmental Management Act, 2007 and its Regulations.

1.3 Purpose and scope of this report

The environmental management plan (EMP) provides a logical framework, mitigation measures and management strategies for the activities associated with the proposed project. In this way ensuring that the potential environmental impacts are curbed and minimised as far as practically possible and that statutory and other legal obligations are adhered to and fulfilled. Outlined in the EMP are the protocols, procedures and roles and responsibilities to ensure the management arrangements are effectively and appropriately implemented.

The EMP is submitted as an appendix to the environmental scoping and impact assessment report which has been prepared for this Project. The environmental scoping report should be referred to for project specifications, assessment methodology, applicable legislations and assessment findings.

This EMP is a live document and shall be reviewed at predetermined intervals, and or updated during the EIA process when or if the scope of work alters, or when further data or information is added. All personnel working on the project will be legally required to comply with the requirements set out in the final EMP that is approved by the competent authorities i.e., Ministry of Environment, Forestry and Tourism (MEFT).

1.4 MANAGEMENT OF THIS EMP

The Proponent, will hold the environmental clearance certificate for the proposed project and will be responsible for the implementation and management of this EMP. The implementation and management of this EMP, and thus the monitoring of compliance, will be undertaken through daily duties and activities, as well as monthly inspections.

1.5 LIMITATIONS, UNCERTAINTIES, AND ASSUMPTIONS RELATED TO THIS EMP

This EMP does not include measures for compliance with statutory occupational health and safety requirements. This will be provided in the safety management plan to be developed by the Proponent. Additionally, mitigation measures associated with impacts on additional portions that are not procured and fully transferred to the Proponent are not included in this report. Mitigation management measures regarding the import of game are also not included in this report as the full



extent of the impacts will be scoped in an environmental clearance application amendment application which will be launched with the competent authority (MEFT) once the land portions have been transferred.

Where there is any conflict between the provisions of this EMP and any contractor's obligations under their respective contracts, including statutory requirements (such as licences, project approval conditions, permits, standards, guidelines, and relevant laws), the contract should be amended, and statutory requirements are to take precedence.

The information contained in this EMP is based on the project description as provided in the environmental scoping report. When the design or operation method changes, this EMP may require updating and potential further assessment may be undertaken.

1.6 ENVIRONMENTAL ASSESSMENT PRACTITIONER

The report has been prepared by Environmental Compliance Consultancy (Pty) Ltd (ECC) (Reg. No. 2022/0593) on behalf of the Proponent. Authored by ECC employees with no material interest in the report's outcome, ECC maintains independence from the Proponent and has no financial interest in the project apart from fair remuneration for professional fees. Payment of fees is not contingent on the report's results or any government decision. ECC members or employees are not, and do not intend to be, employed by the Proponent, nor do they hold any shareholding in the project. Personal views expressed by the writer may not reflect ECC or its client's views. The environmental report's information is based on the best available data and professional judgment at the time of writing. However, please note that environmental conditions can change rapidly, and the accuracy, completeness, or currency of the information cannot be guaranteed.

All compliance and regulatory requirements regarding this report should be forwarded by email or posted to the following address:

Environmental Compliance Consultancy PO Box 91193, Klein Windhoek, Namibia

Tel: +264 81 669 7608

Email: info@eccenvironmental.com



2 ENVIRONMENTAL MANAGEMENT FRAMEWORK

2.1 OBJECTIVES AND TARGETS

Environmental objectives and targets have been developed so that trophy hunting activities and lodge operations can minimise potential impacts on the environment, as far as reasonably practicable.

Environmental objectives for the project are as follows:

- Zero pollution incidents;
- Minimal vegetation clearing;
- Minimal impact on regional groundwater users;
- Protect local flora and fauna, and
- Use natural resources effectively and efficiently.

2.2 Organisational structure, roles, and responsibilities

The Proponent shall be responsible for:

- Ensuring all members of the project team, including contractors, comply with the procedures set out in this EMP;
- Ensuring that all persons are provided with sufficient training, supervision, and instruction to fulfil this requirement;
- Ensuring that any persons allocated specific environmental responsibilities are notified of their appointment and confirm that their responsibilities are clearly understood; and
- Contractors shall be responsible for ensuring and demonstrating that all personnel employed by them are compliant with this EMP, and meet the responsibilities listed above.

Table 1 lists the roles and responsibilities allocated to different personnel throughout the project's lifecycle.



Table 1 - Roles and responsibilities

ROLE	RESPONSIBILITIES AND DUTIES
General	- Responsible for ensuring compliance with this EMP;
Manager	- Ensuring employees understand and comply with the requirements
(Proponent)	of this EMP;
	- Ensuring that all personnel are provided with enough supervision
	and instructions to fulfil duties in line with the EMP;
	- Ensuring compliance with this EMP including overseeing the day-to-
	day activities during operations, and routine and non-routine
	maintenance works during operations;
	- Responsible for providing the required resources (including financial
	and technical) to complete any required tasks;
	- Responsible for the management, maintenance and revisions of this
	EMP;
	- Maintain community issues and concerns register and keep records
	of complaints and responses provided;
	- Ensuring that best environmental practices are undertaken
	throughout the operations of the facility;
	- Notifying the relevant authorities on serious environmental incidents
	promptly; and
	- Being responsible for all management plans and environmental
	monitoring.
Foreman	The farm or lodge foreman will be responsible for the implementation of the
(Appointed	EMP for the lodge. The foreman will be available as required throughout the
HSE	operation of the lodge and is tasked with the following roles:
responsible	
person)	- Bearing authority and independence to demand reasonable steps as
	required to avoid or minimise unintended or adverse environmental
	impacts, and failing the effectiveness of such steps, to direct that
	relevant construction activities be ceased immediately should an
	adverse impact on the environment be likely to occur;
	- Complete monthly EMP checklists and submit findings to the farm
	manager;
	- Provisioning of environmental awareness/management training,
	capacity building and inductions;
	- Ensuring that best environmental practices are undertaken
	throughout the operations of the lodge;
	- Timely distribution of any relevant environmental documentation,
	including revisions to this EMP to all staff;
	- Ensuring site inductions are conducted throughout the different
	phases of the Project;



DOLE	DECRONCIBILITIES AND DUTIES
ROLE	RESPONSIBILITIES AND DUTIES
	- Reporting of any operations and conditions that deviate from the
	EMP or any non-compliant issues or accidents to the Proponent; and
	- Responsible for compliance with conditions as set out in this EMP.
Employees,	Contractors hired for operations or maintenance activities at the lodge should
contractors	comply with this EMP and shall be responsible for the following:
and visitors	 Undertaking activities in accordance with this EMP as well as relevant policies, procedures, management plans, statutory requirements and contract requirements; Implementing appropriate environmental management measures; Reporting environmental issues, including actual or potential environmental incidents and hazards to the Proponent or foreman; and Ensuring appropriate corrective or remedial actions are taken to address all environmental hazards and incidents.

2.3 EMPLOYMENT

The Proponent and all contractors shall comply with the requirements of the Republic of Namibia's regulations for Labour, Health and Safety, and any amendments to these regulations. The following shall be complied with:

- In liaison with local government and community authorities, the Proponent shall ensure that local people have access to information about job opportunities and are considered first for construction/maintenance contract employment positions;
- The number of job opportunities shall be made known together with the associated skills and required qualifications;
- The maximum length of time the job is likely to last for shall be indicated;
- Foreign workers with no proof of permanent legal residence shall not be hired;
- Every effort shall be made to recruit from the group of unemployed workers living in the surrounding area; and
- Every employee hired must be provided with a valid employment contract stating the position hired and hourly remuneration offered.

3 COMMUNICATION AND TRAINING

To ensure potential risks and impacts are minimised, it is vital that personnel are appropriately informed on how to properly implement the EMP. It is also important that regular communications are maintained with directly affected parties and are informed of potential environmental or socioeconomic impacts and how to minimise them. This section sets out the framework for communication and training in relation to the EMP.

3.1 Communications

During construction, the project manager and site manager shall communicate site-wide environmental issues to the project team through the following means (as and when required):

- Site inspection and audits;
- Site induction, including instruction on incident response procedure, and
- Briefings on key project-specific environmental issues, like feedback on complaints.

This EMP shall be distributed to the construction team including any contractors to ensure that the environmental requirements are adequately communicated. Key activities and environmentally sensitive operations should be highlighted to workers and contractors.

During the construction phase, communications between the management team shall include discussing any complaints received and actions to resolve them, - any inspections, audits, or non-conformance with this EMP, and any objectives or target achievements.



3.2 ENVIRONMENTAL EMERGENCY AND RESPONSE

An emergency is any abnormal event, which demands immediate attention. It is any unplanned event, which results in the temporary loss of management control at site, but where functional resources can manage the response. An emergency response plan document will be put in place that manages the response in relation to emergencies including environmental emergencies. Table 2 contains a list of emergency contact numbers.

Table 2 - Emergency contact details

TOWN	AMBULANCE	POLICE	FIRE BRIGADE
Windhoek	+264 (61) 21-1111	+264 (61) 1-0111	+264 (61) 21-1111
Dordabis	+264 (61) 302 931	+264 (62) 573 514	-
Rehoboth	+264 (62) 52-3811	+264 (62) 1-0111	+264 (62) 52-2091

For large-scale spills (i.e., greater than 200 litres) and other significant environmental incidents, the fire service should be notified as required and MEFT office should be informed of the incidents (telephone +264 61 284 2111) as well as the Ministry of Mines and Energy (MME) by completing form PP/11 (telephone: +264 61 284 8111). All correspondence with MME/MEFT should be undertaken by the farm manager as guided by the foreman.

3.3 COMPLAINTS HANDLING AND RECORDING

Any complaints received through various means of communication by contracted employees or directly affected IAPs should be documented by the receiver. The following aspects should be noted in the complaint register:

- The name of the complainant
- The contact details of the complainant
- Date and time of the complaint
- The nature of the complaint

The information shall be given to the Proponent who is responsible for the management of complaints. The project manager shall do the following:

- Acknowledge the complaint as received;
- Maintain a complaint document register file;
- Provide a written response to the complainant of the results of the investigation and action to be taken to rectify or address the matter(s). Where no action is taken, the reasons why are to be recorded in the register.

The workforce shall be informed about the complaints register. The complaints register shall be kept for the duration of the Project and will be available for government or public review upon request.



3.4 Training and awareness

All personnel working on the project shall be competent to perform tasks that have the potential to cause an environmental impact. Competence is defined in terms of appropriate education, training, and experience. The Proponent should ensure that employees assigned with specific duties poses the necessary skill sets to complete such duties.

3.5 SITE INDUCTION

All personnel involved in the project shall be inducted to the site with specific environmental and social awareness training, and health and safety issues. The environmental and social awareness training shall ensure that personnel are familiar with the principles of this EMP, and the environmental impacts associated with their activities, the procedures in place to control these impacts and the consequences of departure from these procedures.

The site induction should include, but is not limited to the following:

A general site-specific induction that outlines:

- What is meant by "environment" and "social";
- What are the environmental risks and impacts associated with lodge construction and operations;
- How can construction activities impact the environment; and
- What can be done to mitigate against impacts.

The inductee's role and responsibilities concerning implementing the EMP:

- The site's environmental rules;
- Details of how to deal with, and who to contact should any environmental problems occur:
- The potential consequences of non-compliance with this EMP and relevant statutory requirements, and
- The role of responsible people working on the project.



4 REPORTING, COMPLIANCE AND ENFORCEMENT

4.1 ENVIRONMENTAL PERFORMANCE MANAGEMENT

The current summary of a register of environmental risks and issues identifies mitigation and monitoring measures, as well as the roles responsible for execution. The Project Manager and Foreman will use this register to undertake monthly inspections to ensure the project is compliant with this EMP.

4.2 Construction: environmental inspection & compliance monitoring

4.2.1 MONTHLY COMPLIANCE MONITORING

Monthly inspections will be undertaken by the Site manager to check that the standards and procedures set out in this EMP are being complied with and environmental control measures are in place and working correctly. Any non-conformance will be recorded, including the following details: a brief description of non-conformance; the reason for the non-conformance; the responsible party; the result (consequence); and the corrective action taken and any necessary follow up measures required.

4.3 OPERATIONS: ENVIRONMENTAL INSPECTIONS & COMPLIANCE MONITORING

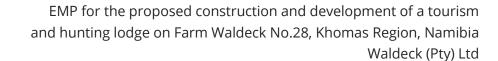
Annual inspections of the different lodge operational areas will be undertaken by the Proponent to determine any non-conformances. Any non-conformance will be recorded, including the following details: a brief description of non-conformance; the reason for the non-conformance; the responsible party; the result (consequence); and the corrective action taken and any necessary follow up measures required.

4.4 Reporting

There will be a requirement to ensure that any incident or non-compliance, including any environmental issue, failure of equipment or accident, is promptly reported to the Farm Manager.

4.5 Non-compliance

Where it has been identified that works are not compliant with this EMP, the Farm Manager will implement corrective actions to the extent that the works return to being compliant as soon as possible. In instances where the requirements of the EMP are not upheld, a non-conformance and corrective action notice will be produced. The notice will be generated during the inspections and the project manager will be responsible for ensuring a corrective action plan is established and implemented to address the identified shortcoming.





Activities shall be stopped in the event of non -compliant event identified until corrective actions have been completed.

4.6 INCIDENT REPORTING

The Site Manager must ensure that an accident and incident (including minor or near-miss) reporting system is maintained by the foreman so that all applicable statutory requirements are covered. For any serious incident involving a fatality, or permanent disability, the incident scene must be left untouched until witnessed by a representative of the police. This requirement does not preclude immediate first aid being administered and the location being made safe.

The foreman must investigate the cause of all work accidents and significant incidents and must provide the results of the investigation and recommendations on how to prevent a recurrence of such incidents. A formal root-cause investigation process should be followed.

4.6.1 DISCIPLINARY ACTION

This EMP is a legally binding document and non-compliance with it shall result in disciplinary action being taken against the perpetrator(s). Such action may take the form of (but is not limited to):

- Fine/penalties;
- Legal action;
- Monetary penalties imposed by the Proponent on the contractor;
- Withdrawal of licence: and
- Suspension of work.

The disciplinary action shall be determined according to the nature and extent of the transgression / non-compliance, and penalties are to be weighed against the severity of the incident.



5 ENVIRONMENTAL AND SOCIAL MANAGEMENT

5.1 ENVIRONMENTAL PERFORMANCE MEASUREMENT

This chapter provides a summary register of environmental risks and issues which identifies mitigation and mitigation measures as well as responsible party(ies). This chapter is subject to regular review by the Proponent and will be updated as necessary.

The Proponent will use this register to undertake monthly and annual inspections to ensure the Project is compliant with the EMP.

5.2 OBJECTIVES AND TARGETS

Environmental protection is the responsibility of management and if management incorporate environmental disciplines in their day-to day activities, employees, contractors and customers would act and align their operations towards such standards.

Environmental objectives and targets have been developed so that activities on the proposed site can minimise potential impacts on the environment, as far as reasonably practicable.

The Project aims to achieve the following environmental objectives:

- Zero pollution incidents;
- Sustainable resource use (water and energy);
- Application of the waste management hierarchy;
- A safe working environment for employees; and
- Use natural resources efficiently and effectively.

5.3 REGISTER OF ENVIRONMENTAL RISKS AND ISSUES

An environmental review of the proposed project has been completed to identify all the commitments and agreements made within the environmental scoping and impact assessment report. From this, a schedule of environmental commitments and risks has been produced which details deliverables including measures identified for the prevention of pollution or damage to the environment during the project's lifetime (Table 3).

Table 3 provides a register of environmental risks and issues, which identifies mitigation and monitoring measures, as well as the responsible persons.



Table 3 - Environmental risks and issues, mitigations and monitoring measures

Aspect	Potential impacts	Management/mitigation measures	Monitoring requirements	Responsibility
Air quality	construction vehicles and equipment. Dust generation	implemented, as required:	Daily	Farm Manager Site Supervisor Foreman Employees
Visual	Visual disturbances	- Engage with the surrounding neighbours about the construction activities; and -Practise Good housekeeping on site.	Monthly Daily	Farm Manager Foreman Employees
Noise	Gunshot noise and construction noise leading to noise nuisance and potential hearing loss towards sitebased employees.		Daily	Farm Manager Foreman Employees

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Aspect	Potential impacts	Management/mitigation measures	Monitoring requirements	Responsibility
		The following mitigation measures should be implemented, as required:		
		-The Proponent should develop a healthy and safety management plan that takes into account noise generation; -Restrict noise generating activities to day- time operations; -Conduct safety inductions before hunting expeditions; -Appropriate PPE should be worn during hunting activities (i.e. earplugs, earmuffs, ear protective equipment with >30 SNR)Ensure that hunting ammunitions are equipped with silencers; -People not shooting should stand further away from the noise source;		
		- Vehicles on site should be maintained regularly to exhaust noise levels; and -Ensure noise complaints are recorded and responded to timeously.		



Aspect	Potential impacts	Management/mitigation measures	Monitoring requirements	Responsibility
Occupational	Occupational health and	To promote a safe and conducive working	Daily	Foreman
health and safety	safety concerns during the	environment, the following mitigation measures		
	construction phase of the	should be considered:		
	project.			
		-A health and safety management plan should be		
		developed and implemented on-site by the		
		Proponent;		
		-The Labour Act No.11 of 2007 and Regulations		
		relating to occupational health and safety should be		
		adhered to;		
		-Appropriate PPE should be worn by employees (e.g.		
		safety boots, overalls, butchery apron and gloves).		
		-Conduct safety induction to employees and		
		employees should be trained on weapon handling;		
		-Appropriate safety/warning signs should be erected		
		at areas considered to cause certain degree of harm;		
		-Risk assessment in the workplace must be done to		
		identify facility areas that could cause some degree of		
		impacts, suitable prevention measures should be		
		identified;		
		-Frequent maintenance of all equipment and		
		machineries is advised;		
		-Occupational incidents and accidents incurred on-		
		site should be reported to the authorities (i.e.		



Aspect	Potential impacts	Management/mitigation measures	Monitoring requirements	Responsibility
		Occupational Safety & Health (OSH) at the Ministry of	requirements	
		Labour, Industrial Relation and Employment Creation,		
		by using form F.5 (Ministry of Labour, Industrial		
		Relations and Employment Creation);		
		-Emergency contact details should be displayed to		
		contact relevant services in emergency situations;		
		- In the unlikely event of a death occurring within farm		
		boundaries from occupational negligence or		
		otherwise from a "freak accident event", the area		
		should be secured, and all personnel removed from		
		the scene;		
		- A root cause analysis into the event should be		
		undertaken as soon as practicably possible; and		
		-Counselling should be provided to the witnesses and		
		other personnel member who may have been		
		impacted by the event.		
Fire	Potential risk of fire	- Develop a fire management system through risk	Weekly,	All staff
risks	occurrences and veld fire	identification and assessment;	monthly and	
management	leading to ecosystems	- Identify and signpost dedicated assembly points at	annually	
	breakdown.	the lodge area;		
		- Develop site-specific work procedures as part of the		
		fire management system;		
		- Control and reduce the potential risk of fire by		
		segregating and safe storage of flammable materials;		



Aspect	Potential impacts	Management/mitigation measures	Monitoring requirements	Responsibility
		- Avoid potential sources of ignition for example, by prohibiting smoking in and around areas where	requirements	
		chemicals/fuel is stored;		
		- Ensure suitable fire-extinguishing equipment are		
		easily accessible whenever necessary (this can include		
		pails of water, buckets of sand, or portable		
		extinguishers);		
		- For veld fires, appropriate firefighting equipment		
		should be available on-site;		
		-Design and re-define the fire breaks within the farm		
		on an annual basis following the rain season;		
		- Emergency contact details should be readily available on-site;		
		- Fires made for "braai"/BBQ within farm boundaries		
		should be monitored and extinguished to prevent the		
		risks of causing a veld fire; and		
Wildlife	Potential overhunting of game	The Nature Conservation Ordinance Act No. 4 of 1975	Daily, monthly	Farm Manager
mismanagement	with good genetic make-up	and its regulations, Controlled Wildlife Products and	and yearly.	Foreman
	and wildlife mismanagement	Trade Act 9 of 2008 and the Animals Protection Act 71		
	within the farm boundaries.	of 1962 should be followed closely with regards to any		
	Potential risk of inbreeding	hunting activities within farm boundaries.		
		The following measures will guide the sustainable hunting of game:		



Aspect	Potential impacts	Management/mitigation measures	Monitoring requirements	Responsibility
		- Develop an effective wildlife management plan;		
		-Create awareness on biodiversity, conservation and		
		ecosystem to staff members and hunters;		
		-Hunting should be conducted under the supervision		
		of registered professional hunters;		
		- Game hunting permits should be applied for;		
		- Conduct annual game counts and keep a record of		
		hunted and game populations;		
		- Introduce new game to the farm from elsewhere		
		(new genetics) to prevent inbreeding of fenced off		
		populations; and		
		- Sustainable game farm management and ethical		
		practices should be promoted and incorporated.		
Avifauna	Potential lead exposure and	Management/control measures include the following:	Daily, monthly	Farm Manager and
management	poisoning from lead in hunting	- Lead ammunitions should not be used during	and yearly.	Foreman
	ammunitions (i.e raptors and	hunting expeditions; and		
	vulnerable scavenger birds)	- Ensure that carcasses (where the bullet made an		
		impact and fragmented) hunted with lead-based		
		ammunitions are disposed- off properly.		
Wildlife	The possible of encountering	The Nature Conservation Ordinance Act No. 4 of 1975	Daily, monthly	Farm Manager
management	and interacting with	and its Regulations, Controlled Wildlife Products and	and yearly.	Foreman
	biodiversity on-site.	Trade Act 9 of 2008 and the Animals Protection Act 71		
		of 1962 should be closely followed with regards to any		
		encounters with wildlife with farm boundaries.		



Aspect	Potential impacts	Management/mitigation measures	Monitoring requirements	Responsibility
		- Wildlife encountered on farm have the right of way;		
		- Restrict speed of vehicles (<40 km/h);		
		- No living organism should be removed from farm		
		boundaries by anyone other than a		
		professional/registered animal handler, pest control		
		company, MEFT/MAWLR or relevant rehabilitation or		
		wildlife organisations;		
		- Prohibit illegal hunting, consumption and possession		
		of game and game products (i.e., illicit trade of		
		pangolins for scales);		
		- Police and MEFT should be notified of any illegal		
		hunting incident involving sensitive or protected		
		species or if such an animal is found on someone		
		within or surrounding farm boundary;		
		-Snares found on the farm should be removed and		
		destroyed;		
		- An anti-poaching unit should be recruited to conduct		
		regular patrols within the farm;		
		-Installation of closed-circuit cameras would aid to		
		monitor the project area on a 24-hour basis;		
		- Nests discovered on infrastructure within farm		
		boundaries should not be removed or destroyed;		
		- Pesticides and herbicides should not be used as far		
		as reasonably possible;		



Aspect	Potential impacts	Management/mitigation measures	Monitoring requirements	Responsibility
		-If there is no other possibility, the relevant		
		pesticides/herbicides/chemicals should be used by a		
		professional/registered pest control company and the		
		MSDS of the substance used should be followed		
		closely;		
		- Invasive plant species should be removed, and their		
		spread should be monitored closely; and		
		- Waste on-site should be well managed and removed		
		from the site to less attract rodents, snakes and		
		scorpions.		
	Potential removal of protected	To counteract the potential risk of removing certain	Daily, monthly	Farm Manager
	plant species land clearing	protected plant species, the following control	, , , , , , , , , , , , , , , , , , ,	Foreman
	activities.	management measures should be implemented:		
		-Prior to any land clearing event, site inspection		
		should be conducted to determine the presence of		
		any unique plant species;		
		- Protected plant species should not be removed,		
		without the relevant permission or permits;		
		- Large trees or shrubs should not be removed (could		
		be essential for breeding birds);		
		-Where possible, rescue and relocate plants of		
		significance;		
		- Promote revegetation of cleared areas upon		
		completion of construction activities; and		



Aspect	Potential impacts	Management/mitigation measures	Monitoring requirements	Responsibility
		- All project equipment arriving on-site from elsewhere should have an internal weed and seed inspection completed prior to such equipment being used, this will prevent encroachment of invasive species.		
	Potential habitat destruction and disturbances of ecosystem functioning due to land clearing activities for the PV solar plants.	 Use existing roads to avoid new tracks and potentially destroying habitats or burrowing species; Prior to land clearing, site inspections should be conducted to determine the presence of any unique nesting/ breeding site within the proposed project site; and Minimise clearing areas through proper planning of construction and operational activities; and 	Daily, monthly	Farm Manager Foreman
Heritage	Potential heritage discovery	In case of discovering or unearthing heritage sites, the following measures (chance-find procedure) shall be applied: - Works to cease and the area to be demarcated with appropriate tape by staff, and the Farm Manager to be informed; and - Archaeological/heritage artefacts/graves are to remain un-disturbed, until an investigation is conducted.	Daily	All staff members
Soil	Emergency incidents/	Since generators will be used during the construction	Daily, monthly	All staff members
Pollution control	accidental release of	phase, the following measures should be taken into	and yearly	



Aspect	Potential impacts	Management/mitigation measures	Monitoring requirements	Responsibility
	hazardous substances leading	consideration regarding storage, handling and spill		
	to soil contamination.	management.		
		Storage		
		-Hazardous chemicals should be stored separate		
		from non-hazardous chemicals;		
		-Chemical containers should be labelled correctly-		
		clear guidance on the compatibility of different		
		chemicals can be obtained from the Materials Safety		
		Data Sheets (MSDS) which should be readily available;		
		- Store chemicals in a dedicated, enclosed, and secure		
		facility with a roof and a paved/concrete floor;		
		- Diesel tanks should be completely contained within		
		secondary containment such as bundings; and		
		- Fuels, lubricants, and chemicals are to be stored		
		within appropriately sized, impermeable bunds or		
		trays with a capacity not less than 110% of the total		
		volume of products stored.		
		Spills		
		Spill kits with the following items as a minimum		
		should be made available on site:		



Aspect	Potential impacts	Management/mitigation measures	Monitoring requirements	Responsibility
		Safety measures		
		- Protective clothing should always be worn (e.g.,		
		gloves and overalls);		
		- Major servicing of equipment shall be undertaken		
		offsite or within appropriately equipped workshops;		
		- For small repairs and required maintenance		
		activities all reasonable precautions to avoid oil and		
		fuel spills must be taken (e.g., spill trays, impervious		
		sheets);		
		- No refuelling is to take place within 50 m (meters) of		
		groundwater boreholes, surface water bodies or		
		streams;		
		- Vehicles and machinery are to be regularly serviced		
		to minimise oil and fuel leaks; and		
		Spill management procedures		
		- Do not come into contact with the spilt substance		
		until it has been characterised and necessary		
		personal protective equipment (PPE) is provided		
		- Assess the situation for potential hazards;		
		- Isolate the area as required.		
		- Spills are to be stopped at the source as soon as		
		possible (e.g., close valve or upright drum);		



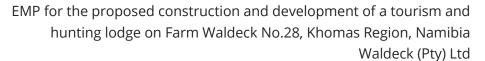
Aspect	Potential impacts	Management/mitigation measures	Monitoring	Responsibility
			requirements	
		– Spilt material is to be contained to the smallest area		
		possible using a combination of absorbent material,		
		earthen bunds or other containment methods;		
		– Spilt material is to be recovered as soon as possible		
		using appropriate equipment. In most cases, it will be		
		necessary to excavate the underlying soils until clean		
		soils are encountered;		
		-All contaminated materials recovered after a spill,		
		including soils, absorbent pads and sawdust, are to be		
		disposed off at an appropriately licenced facility; and		
		-A written incident report must be submitted to the		
		farm manager.		
		- Should there be major petroleum product spills on		
		site, (spill of more than 200 litres per spill) such		
		incidences should be reported to the Ministry of		
		Mines and Energy (MME) on Form PP/11 titled		
		"Reporting of major petroleum product spill'.		
Groundwater	Possible nutrient enrichment	- Ensure compliance to section 68, 70 and 72 of the	Daily and	Farm Manager
pollution control	of groundwater due to leakage	Water Resources Management Act No.11 of 2013.	weekly	Foreman
	of sewage into the			Employees
	groundwater. Potential risk	- Effluent waste discharge permits are in place and		
	associated with the discharge	permit conditions should be adhered to;		



Aspect	Potential impacts	Management/mitigation measures	Monitoring	Responsibility
Groundwater management	Potential impacts of wastewater into watercourses. Potential lowering of groundwater due to water abstractions during lodge construction and operation.	-The Bubbler greywater treatment system needs to be well inspected for leakages at all times; -Effluent water should be tested yearly or as required, to ensure that it complies with relevant legislation and standards; - Effluent should not be discharged into a sensitive habitat/ area (i.e., dam, river or stream); - Groundwater needs to be monitored and tested to ensure that there is no contamination; and - The kitchen fat trap should be well maintained and cleaned monthly or more regularly Abstraction permits should be in place; - Groundwater levels should be monitored regularly to understand the performance of the aquifers against lodge abstractions; -Turn off pumps when abstraction is not required; -Adopt a water wise mindset on site; - Water leakages or pipe burst should be reported and fixed as soon as possible; -Should there be a desire to plant ornamental plant	Monitoring requirements Daily and weekly	Farm Manager Foreman Employees



Aspect	Potential impacts	Management/mitigation measures	Monitoring requirements	Responsibility
		- Activities that require a lot of water should be		
		monitored to ensure water is used efficiently.		
Waste	Possible sewage discharge	-Ensure toilets are always clean and dry;	Daily	All staff members
management	runs the risk of pathogen	- Provide adequate sanitary facilities, including clean		
	/diseases transmissions and	water, soap, disposable paper towels;		
	odours.	– Provide suitable personal protective equipment that		
		may include waterproof/abrasion-resistant gloves,		
		footwear, eye, and respiratory protection;		
		- The monitoring of wastewater discharges should be		
		conducted regularly.		
	Environmental pollution	Waste management should follow the International	Daily and	All staff member
	(littering and poor storage of	Finance Corporation (IFC) standards as follows:	weekly	
	solid waste)	– Implement a waste management plan (from "cradle		
		to grave" methodology) covering all aspects of waste		
		generated on-site;		
		– Ensure a high standard of housekeeping		
		across/within farm boundaries;		
		– Solid waste shall be stored in an appointed area in		
		covered, tip-proof metal drums/skips for collection		
		and disposal to an approved waste management site;		
		– The waste storage areas shall always be kept clean		
		and tidy;		
		-The proposed compost site should always be		
		inspected regularly;		





Aspect	Potential impacts	Management/mitigation measures	Monitoring requirements	Responsibility
		 Ensure solid wastes on site are removed timeously to ward off unwanted scavengers; and 		
		- Implement the waste management hierarchy across		
		the site: Avoid, reuse, recycle, then the disposal.		



6 DECOMMISSIONING PHASE

In the event that the Farm Manager plan to cease with lodge operation (and/or if ownership is transferred), the Proponent and the new owner should mutually agree on the way ahead for the farm and associated infrastructure. If the new owner intent not to use the infrastructure, the Proponent will be responsible to remove all equipment, machinery, chemicals, fuel and any other element from the farm. If infrastructure is removed at decommissioning stage, it is recommended that the Proponent implement a rehabilitation plan for the site to ensure that the site is returned to its natural state as feasibly possible and that no further degradation to the site is foreseen.

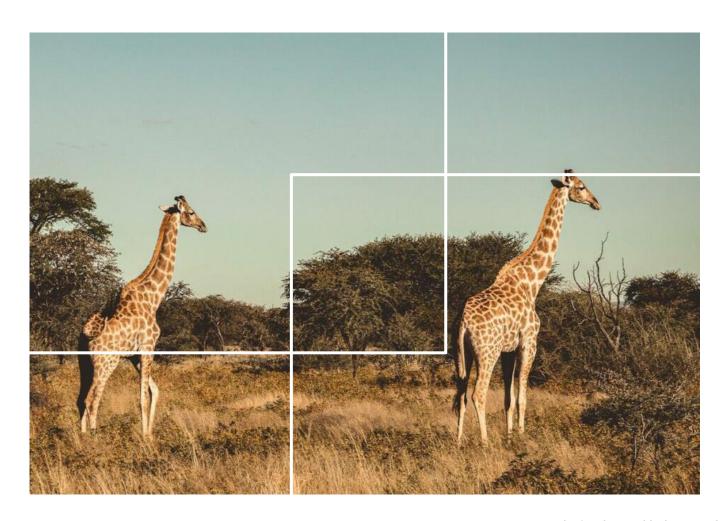


7 IMPLEMENTATION OF THE EMP

The proposed tourism and hunting lodge construction completion and operation work will be carried out in compliance with the relevant regulations. Minor to moderately significant impacts are anticipated, hence management and mitigation measures are in place to eliminate or reduce the severity of potential impacts

This environmental management plan:

- A. Has been prepared according to a contract with the Proponent;
- B. Has been prepared based on information provided to ECC up to September 2023;
- C. Is for the sole use of the Proponent, for the sole purpose of an EMP
- D. Must not be used (1) by any person other than the proponent or (2) for any purpose other than an EMP;
- E. Must not be copied without the prior written permission of ECC.



Submitted to: Waldeck (Pty) Ltd

Attention: Mr Constantin Fugger

REPORT:

BACKGROUND INFORMATION DOCUMENT FOR THE PROPOSED DEVELOPMENT AND CONSTRUCTION OF A TOURISM AND HUNTING LODGE ON FARM WALDECK NO. 28, KHOMAS REGION, NAMIBIA

PROJECT NUMBER: ECC-121-455-BID-04-A

REPORT VERSION: FINAL

DATE: 20 JUNE 2023





Waldeck (Pty) Ltd

TITLE AND APPROVAL PAGE

Project Name: Background information document for the proposed

Development and Construction of a Tourism and Hunting Lodge

on Farm Waldeck No. 28, Khomas Region, Namibia

Client Company Name: Waldeck (Pty) Ltd

Client Name: Mr Constantin Fugger

Ministry Reference: NA

Authors: Stephan Bezuidenhout, Michael Cloete and Emanuele Augello

Status of Report: Final

Project Number: ECC-121-455-BID-04-A

Date of issue: 20 June 2023

Review Period NA

ENVIRONMENTAL COMPLIANCE CONSULTANCY CONTACT DETAILS:

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Please note at ECC we care about lessening our footprint on the environment; therefore, we encourage that all documents are printed double sided.



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1 BACKGROUND INFORMATION DOCUMENT

1.1 Purpose of this document

Environmental Compliance Consultancy (ECC) has been contracted by Waldeck (Pty) Ltd to undertake an environmental scoping assessment. The proposed project involves the development and construction of a tourism and hunting lodge on farm Waldeck No. 28, located about 50 km south east of Windhoek, along the D1463, In the Khomas Region, Namibia.

The purpose of this Background Information Document (BID) is to provide Interested and Affected Parties (I&APs) a background to the proposed project and to invite I&APs to register as part of the environmental scoping assessment process.

Through registering for the project, all I&APs will be kept informed throughout the ESIA process, and a platform for participation will be provided to submit comments/ recommendations pertaining to the project.

This BID includes the following information:

- The proposed expansion of the plant and increased production activities and location;
- The necessity of the project, potential benefits or adverse impacts anticipated;
- The alternatives to the project that will be considered and assessed;
- How the ESIA process works;
- The public participation process and how to become involved; and
- Next steps and the way forward.

1.2 DESCRIPTION OF THE PROPOSED PROJECT

Environmental Compliance Consultancy (ECC) has been engaged by the proponent to undertake an ESIA and develop an Environmental Management Plan (EMP) in terms of the Environmental Management Act, 2007 and its regulations. An environmental clearance application will be submitted to the Ministry of Environment, Forestry and Tourism (MEFT) for the project, which is the relevant authority to make a Record of Decision (RoD) with regard to the proposed project.

1.3 LOCATION

Farm Waldeck No. 28 is located to the southeast of Windhoek next to the C23 road. It can be accessed from Windhoek by driving south along the B1 road and turning onto the D1463 road in an eastern direction. The farm is situated north of the road approximately 9 km from the junction. The location is shown in Figure 1.



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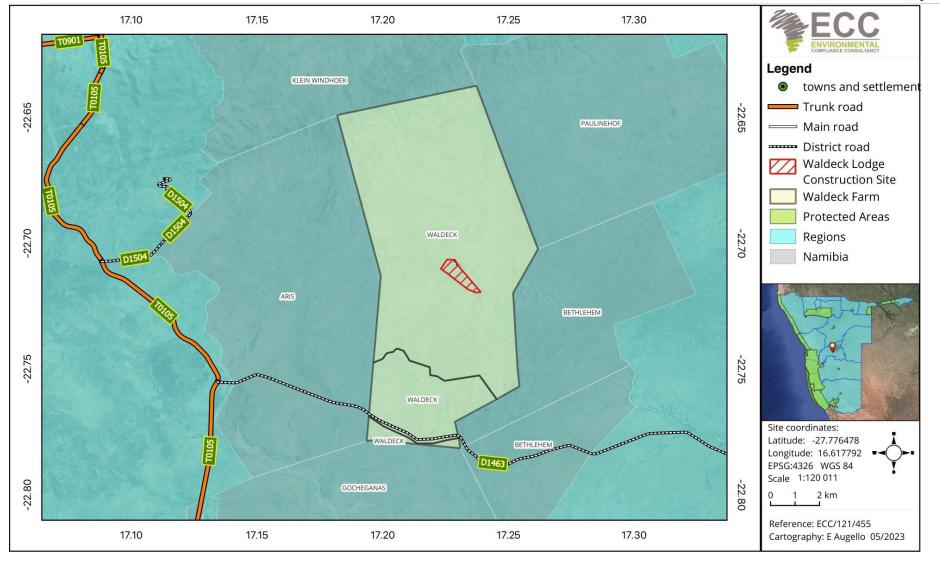


Figure 1 -Locality Map of the Proposed Project



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1.4 WHAT IS PROPOSED

Waldeck (Pty) Ltd proposes to develop a tourism and hunting lodge approximately 36 km south of Windhoek on Farm Waldeck No. 28 in the Khomas Region, Namibia. The development involves the construction of 6 accommodation units, a main common core area, two solar plants, an activities area, a butchery, cold storage and an existing game fence around the farm. All work will fall within the boundaries of farm Waldeck No. 28.

1.5 NEED FOR THE PROJECT

Namibia is a tourism destination for people around the world due to various unique and popular features, attractions and sites across the country. The tourism and hunting industries are both big contributors to the Gross Domestic Product (GDP) of Namibia and play an important part with regard to socio-economics and conservation within the country. During the COVID-19 pandemic, these two sectors suffered greatly due to border closures around the globe. Since early 2021 more and more countries gradually started to reopen their borders for international travel which helped to reduce a bit of pressure on these sectors in Namibia. Up to 2023 tourism and hunting sectors, despite a constant growth, are not yet at full capacity.

New tourism and hunting projects will be beneficial in the sense that it attracts tourists and hunters to the country and will also result in the creation of employment opportunities since this project will create approximately 100 jobs during the construction phase of the project and approximately 12 jobs during the operational phase.

1.6 CONSTRUCTION AND OPERATIONAL PHASES

The following are envisioned during the proposed project:

- 6 accommodation units with a core area consisting of the following: restaurant, wellness centre (with gym, sauna and therapy room), pool, boma area, lounge, bar, dining area, cellar, media room, public bathrooms, staff bathrooms, offices, laundry and storerooms;
- Two solar plants with battery room (for a total peak demand of 200kWh); and
- A game fence around the farm;

1.7 POTENTIAL IMPACTS OF THE PROJECT

1.7.1 SOCIO-ECONOMIC

The potential social impacts are anticipated to be of low significance and those that may transpire shall be confined within the farm boundaries and neighbouring farms, these potential impacts may include the following:



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- Potential to unearth, damage or destroy undiscovered heritage remains;
- Health and Safety on the farm with regards to firearms being used;
- Noise generation by hunting rifles;
- Minor disruption to the residents of neighbouring farms, including some potential increase in noise levels as a result of the use of aircraft (Helicopter and small planes) on the property;
- Jobs will be created as a result of the project; and
- There will be anticipated economic benefits on a regional and national scale.

1.7.2 ENVIRONMENTAL

Some of the potential environmental impacts are anticipated to be of minor significance, and those that may occur shall be contained within the farm boundaries. These potential minor impacts may include the following:

- Minor risk of spillage of hydrocarbons from diesel tank may, that may potentially lead to localised ground contamination; this aspect will be controlled at all times.
- Potentially localised lowering of groundwater levels; and
- Potential erosion within cleared areas;

There may also be impacts of a more significant nature that may require further investigation during the ESIA process. The impacts proposed at this stage include, but are not limited to:

- Vegetation clearing with regards to all proposed construction on the farm;
- Groundwater usage for the lodge area, hunting activities and greenhouses, with the potential lowering of groundwater levels over a wider area;
- Potential mismanagement of game numbers and genetic make-up of game on the property;
- Lead poisoning (i.e. scavengers/predators could be impacted by lead used in ammunition);
- Impacts to biodiversity with regards to aircrafts landing and vehicles driving in the field;
 and
- Tourism and hunting activities may have impacts on birds during breeding/nesting periods.



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2 CONSIDERATION OF ALTERNATIVES

Best practice environmental assessment methodology calls for consideration and assessment of alternatives to a proposed project.

The proponent is the owner of farm Waldeck No. 28, renovations to existing structures and the lodge construction have already started. Thus, no locality alternatives have been considered for the proposed project.

During the ESIA assessment, alternatives will take the form of consideration of optimisation and using eco-friendly solutions to reduce potential impacts e.g., lead-free ammunition, renewable energy, water recycling etc.



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3 THE ENVIRONMENTAL AND SOCIAL IMPACT ASSESSMENT PROCESS

This ESIA, conducted by ECC, is undertaken in terms of the Environmental Management Act, 2007 and its regulations. The process followed in this ESIA is set out in the flowchart in Figure 2.



Figure 2: Flowchart of the environmental and social assessment process



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3.1 Screening

A review of the planned project was undertaken and the screening findings against the listed activities were conducted; the findings of which are summarised in Table 1.

Table 1 - Listed activities triggered by the proposed project

LICTED ACTIVITY	FIA CODEENING FINIDING
ENERGY GENERATION, TRANSMISSION AND STORAGE ACTIVITIES (1.a) The construction of facilities for the generation of electricity; (1.b) The construction of facilities for the transmission and supply of electricity;	A Solar plant and battery room will be constructed for the Lodge site and will cater for a demand of 200kWh.
WASTE MANAGEMENT, TREATMENT, HANDLING AND DISPOSAL ACTIVITIES (2.1) The construction of facilities for waste sites, treatment of waste and disposal of waste. (2.3) The import, processing, use and recycling, temporary storage, transit or export of waste.	 Septic tanks are installed on site, where effluent from septic tank will be treated further in grey water treatment. Waste generated on-site, including construction waste will be removed from the site and disposed of at the Kupferberg landfill site.
FORESTRY ACTIVITIES (4.) The clearance of forest areas, deforestation, afforestation, timber harvesting or any other related activity that requires authorisation in term of the Forest Act, 2001 (Act No. 12 of 2001) or any other law.	 Construction of the lodge has already commenced. Thus, vegetation has been cleared for these areas. However, protected tree species and trees larger than 18 cm in diameter will not be part of the clearing. Vegetation will be cleared for the construction of the lodge infrastructure, solar plants and activities areas.
LAND USE AND DEVELOPMENT ACTIVITIES 5.3) Construction of veterinary protected area or game proof and international boundary fences.	An existing game fence along the boundary of farm Waldeck.
TOURISM DEVELOPMENT ACTIVITIES (6.) The construction of resorts, lodges,	The construction of 6 lodge units, and a wellness centre, with a core area, will consist of both hard



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hotels or other tourism and hospitality facilities.	construction and canvas structures.Construction of staff village for 12 staff.
WATER RESOURCE DEVELOPMENT (8.1) The abstraction of ground or surface water for industrial or commercial purposes. (8.5) Construction of dams, reservoirs, levees and weirs. (8.6) Construction of industrial and domestic wastewater treatment plants and related pipeline systems.	 Water will be sourced from existing boreholes and pumped to reservoir of roughly 60m³. The waste treatment system will be constructed to treat water to an acceptable (useable) greywater.
OTHER ACTIVITIES (11.2) Construction of cemeteries, camping, leisure and recreation sites.	The project intends to centre around the construction of a lodge and will include leisure and recreation activities.

3.2 SCOPING

Due to the nature of the proposed project, and the implementation of industry best practice mitigation measures during the development, construction and operational phases, the effects on the environment and society are expected to be low to moderate and will be limited within the farm boundaries, with an exception to the potential impacts from groundwater levels.

3.3 BASELINE STUDIES

For the proposed project, baseline information was obtained through a desk-based study by focusing on the environmental receptors that could be affected by the proposed project. ECC will also engage with stakeholders, I&APs and the proponents to seek input into the assessment, and should it be required specialist studies will be initiated.

3.4 Terms of reference

Based on the stakeholder engagement through the defined public consultation process including any written correspondence and the baseline studies, the ToR for the impact assessment will be finalised and confirmed with the Environmental Commissioner.



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3.5 STAKEHOLDER ENGAGEMENT

The public and key stakeholders receive invitations to register as I&APs. After the presentation of the proposed project and ESIA process through he defined public consultation process, a period of time for input will be granted for the Environmental Assessment Practitioner (EAP) to receive any additional concerns or comments from registered I&AP's. All feedback from the initial public consultation process will be incorporated into the scoping report.

3.6 SCOPING REPORT

The scoping report will be drafted and made available to the registered I&APs for comment before being submitted to the competent authority and MEFT. The scoping report will contain a description of the project and the bio physical and socio-economic environments, the specialist baseline studies, stakeholder engagement report and the terms of reference for the ESIA.

3.7 IMPACT ASSESSMENT

Impacts will be assessed using the ECC ESIA methodology. The ESIA will be conducted in terms of the Environmental Management Act, 2007 and its regulations. ECC's methodology for impact assessments was developed using IFC standards in particular Performance Standard 1 'Assessment and management of environmental and social risks and impacts' (IFC 2012, 2017) and Namibian Draft Procedures and Guidance for ESIA and EMP (GRN, 2008) including international and national best practice with over 25 years of combined ESIA experience.

3.1 Environmental Management Plan

An EMP shall be developed for the proposed project setting out auditable management actions for Waldeck (Pty) Ltd to ensure careful and sustainable management measures are implemented for their activities in respect of the surrounding environment and community.



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4 THE WAY FORWARD - PUBLIC PARTICIPATION

Public participation is an important part of the scoping process. It allows you, the public and stakeholders to raise concerns or provide valuable local environmental knowledge that can benefit the assessment process as well as aid the planning process for the scoping phase of the defined assessment process. At this phase ECC will perform the following:

- Prepare and submit the application for the environmental clearance certificate in a prescribed manner
- Identify relevant key stakeholders, authorities, municipalities, environmental groups and interested or affected members of the public, hereafter referred to as I&APs
- Carry out a public consultation process in accordance with Regulation 21 of the EMA 2007 including:
 - Distribute the BID for the Proposed Project (this document)
 - o Advertise the environmental application and call for registration of I&AP's in two national newspapers
 - Open a I&AP register and record all comments of I&APs and present such comments, as well as responses provided by ECC, in the comments and responses report, which will be included in the scoping report that shall submitted with the application
- Prepare a scoping report and provide the same to registered I&APs for comment
- Submit the scoping report and the I&AP comments to the competent authority and Environmental Commissioner for a record of the decision

The request for registration as an I&AP as well as any comments on the BID or Project must be submitted in writing and can be emailed using the details in the contact us section below. Registration as an I&AP for the project can be completed online on the ECCs website on the projects page, or by using this link: https://eccenvironmental.com/download/the-proposed-development-and-construction-of-a-tourism-and-hunting-lodge-on-farm-waldeck-no-28-khomas-region-namibia/

Registration as an I&AP should be submitted on or before 10 July 2023.

We welcome any enquiries regarding this document and its content. Please contact:

Environmental Compliance Consultancy (ECC)

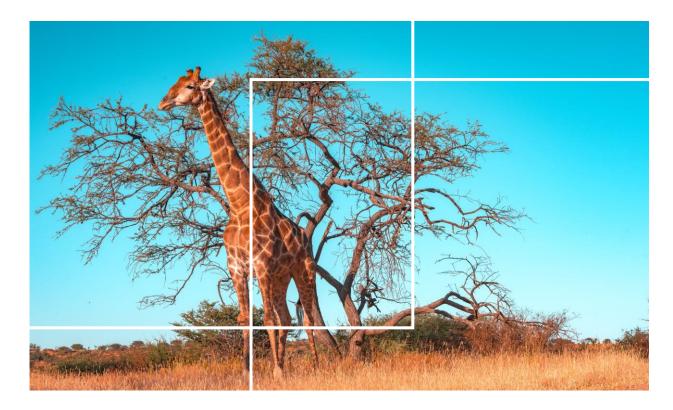
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Submitted to: Waldeck (Pty) Ltd Attention: Mr. Constatin Fugger P O Box 21012 Olympia, Windhoek Namibia.

ADDENDUM REPORT:

IAPS COMMENTS AND RESPONSES ON THE SCOPING REPORT FOR THE PROPOSED CONSTRUCTION AND DEVELOPMENT OF A TOURISM AND HUNTING LODGE ON FARM WALDECK NO.28, KHOMAS REGION, NAMIBIA

PROJECT NUMBER: ECC-121-455-REP-11-A

REPORT VERSION: REV 01

DATE: 26 OCTOBER 2023



IAPs comments and responses on the scoping report for the Proposed construction and development of a tourism and hunting lodge on Farm Waldeck No.28, Khomas Region, Namibia

Waldeck (Pty) Ltd

TITLE AND APPROVAL PAGE

Project Name: IAPs comments and responses on the scoping report for the

Proposed construction and development of a tourism and hunting

lodge on Farm Waldeck No.28, Khomas Region, Namibia

Client Company Name: Waldeck (Pty) Ltd

Client Name: Mr. Constatin Fugger

Ministry Reference: APP-001593

Authors: Samuel Shinyemba, Jessica Bezuidenhout and Stephan Bezuidenhout

Status of Report: Final for Government submission

Project Number: ECC-121-455-REP-11-A

Date of issue: 26 October 2023

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ECC Report Nº: ECC-121-455-REP-11-A



IAPs comments and responses on the scoping report for the Proposed construction and development of a tourism and hunting lodge on Farm Waldeck No.28, Khomas Region, Namibia

Waldeck (Pty) Ltd

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		Comments and feedback from the scoping and impact assessment report ceived from: Mr Juergen Hoffmann	•

ABBREVIATIONS

ABBREVIATIONS	DESCRIPTION
EAP	environmental assessment practitioner
ECC	Environmental Compliance Consultancy (Pty) Ltd
ESIA	environmental and social impact assessment
EMA	Environmental Management Act, No.7 of 2007
IAPs	interested and affected parties
MEFT	Ministry of Environment, Forestry and Tourism



IAPs comments and responses on the scoping report for the Proposed construction and development of a tourism and hunting lodge on Farm Waldeck No.28, Khomas Region, Namibia

Waldeck (Pty) Ltd

INTRODUCTION

1.1 Purpose of the comments consolidated report

This document has been compiled to acknowledge comments received from registered interested and affected parties (IAPs) following the closure of the 7 days public review period of the draft scoping plus impact assessment report for the proposed Project. The public review period presented an opportunity to IAPs to comment in writing on the draft scoping plus impact assessment report. The Proponent propose to construct and develop a tourism and hunting lodge and associated infrastructure on Farm Waldeck No.28, Khomas Region, Namibia.

The draft scoping plus impact assessment report was completed for the proposed Project and undertaken in accordance with the requirements of the Environmental Management Act, 2007 (Act No. 7 of 2007) and the Environmental Impact Assessment Regulations of 2012 gazetted under the Environmental Management Act (EMA), 2007 (Act No. 7 of 2007).

Environmental Compliance Consultancy (ECC) prepared the scoping report and impact assessment report, which was provided to the public and registered IAPs for review for 7 days from the 27th of September – 3rd of October 2023.

This document compiles all comments received during the public review period; presents the responses from ECC as the appointed environmental assessment practitioner (EAP) for the project and the Proponent in the assessment.

Waldeck (Pty) Ltd

2 SUMMARY OF COMMENTS FROM I&APS

2.1 Introduction

In accordance with the Regulations of the EMA 2007, on the 27th of September 2023 the scoping plus impact assessment report was circulated electronically to all registered interested and affected parties (IAPs) and identified key stakeholders. Comments received during the public review period are collated in the "Comment and Response" table presented in Table 1.

2.2 KEY FEEDBACK ON ISSUES OF CONCERN

The scoping plus impact assessment report was provided to all I&APs, identified stakeholders and made publicly available on ECC's website. The purpose of the public review period was to solicit out comments, feedback, and allow genuine participation in the final phase of the EIA process. Comments were received electronically from Mr Juergen Hoffmann and Ms Heide Hoffmann; the owners of Farm Unkenfels No. 73, who are directly affected neighbours. Farm Unkenfels No.73 is bordering Farm Waldeck No.28 to the southeast, therefore Mr and Ms Hoffmann will be directly affected by the proposed project activities. The key areas raised from the review of the comments received are summarised in the section below.

2.2.1 THE SHORT PUBLIC REVIEW PERIOD

Mr Juergen Hoffmann expressed dissatisfaction with the short time allocated for registered IAPs to comment on the draft scoping plus impact assessment report. The EAP addressed this concern by emphasizing that the 7 days public review period was set in terms of Section 23(1) of the Environmental Impact Assessment Regulations of 2012. When comments are received after the public review closure date, the EAP always incorporate and address the comments in the final EIA report that is submitted to the competent authority.

2.2.2 ECONOMIC REVENUE LOSSES

Mr Juergen Hoffmann pointed out that the erection of the game proof fence creates a barrier effect and game migration routes will be disrupted. As a result, Farm Unkenfels No.73 would likely incur direct economic revenues losses. The EAP addressed this comment by emphasizing that the Proponent has signed purchase contract agreements with the landowners of Farm Dornbaum No.74 and Farm No.27. Presently, the Project footprint isn't fully scoped out as these farm portions have not been fully transferred. However once fully procured and transferred, an amendment application will be launched with the competent authority which will take into account an impact assessment study on the acquisition of these portions and any related development activities.



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2.2.3 IMPACTS ON THE SCHAAP RIVER CATCHMENT AREA

Mr Juergen Hoffmann highlighted that the project area entirely covers the largest portions of the Schaap River catchment area, which is the main origin of groundwater recharge for Farm Unkenfels No.73 and downstream farms. Additionally, IAPs expressed concerns that groundwater abstractions during the construction and operational phase will potentially lower the Schaff River groundwater levels and result in water shortages to downstream communities. The EAP acknowledges that the project area falls within a proclaimed groundwater control area. Water required from the construction and operational phase will be sourced from two existing boreholes, of which abstraction permits will be applied for. Water will be pumped to six 10 000 litres JoJo plastic reservoir tanks at the construction site to meet an estimate demand of between 6000 to 10 000 litres per day. During operations, between 9000 to 12 000 litres of water per day will be required. No new dams will be built, and the Proponent is committed to comply with the permits conditions and keeping abstraction track records and closely monitor the groundwater level trends as stipulated in the EMP.

2.2.4 CONCERNS RELATED TO THE PROJECT FOOTPRINT

Concern was raised by Mr Juergen Hoffmann that the Proponent is in contract agreement to purchase additional farm portions and that the project footprint will be extended. The EAP addressed this concern by narrating that the additional farm portions to be purchased by the Proponent are not fully transferred. However, once the land portions have been fully acquired by the Proponent, an amendment application will be launched with the competent authority which will assess the impacts of any land development that will be associated with these portions.

2.2.5 DIALOGUE WITH POTENTIALLY INTERESTED AND AFFECTED PARTIES

Mr Juergen Hoffmann pointed out that the Proponent should initiate a dialogue with directly affected parties (Farm Unkenfels No.73) to ensure a cooperative and sustainable neighbourhood. The Proponent will commit to engage with the I&APs should the responses not be sufficient.



3 DRAFT SCOPING REPORT - COMMENTS AND RESPONSES

Table 1 - Comments and feedback from the scoping and impact assessment report public review received from: Mr Juergen Hoffmann

Comment	EAP Response
The public reviewing period which is limited to only one week is insufficient.	The EAP set the 7 days public review period in terms of Section 23(1) of the Environmental Impact Assessment Regulations of 2012.
Important content/ information appears to be missing and the project boundaries appear to be incorrect.	The additional portions to be purchased by the Proponent are not fully procured and transferred, therefore were therefore not discussed in detail in the EIA report. An impact assessment study will be conducted and an application to amend the environmental clearance certificate will be launched with the competent authority once the land portions have been fully transferred.
The name and register number of our farm incorrectly recorded. Our farm is registered as Farm Unkenfels No. 73 (owner Mrs. H.M. Hoffmann) and we are the directly affected party of the project.	Thank you, this has been addressed. The correct map is presented in Chapter 2, page 20.
The significant environmental and economic impact that the project's game-proof fence and exotic game hunting activities will have on our farm and the ecosystem is not assessed. The fence and hunting area surrounds our farm and isolates it nearly completely from its natural surrounding and game migration routes. The planned common boundary between our farm and Farm Waldeck No.28 should be assessed. It is important to us as the landlocked affected party - now nearly entirely surrounded by your recent acquisitions of land - to	Habitat fragmentation impacts and related impacts are discussed in Chapter 7, section 7.4.2. Presently, the Project footprint isn't fully discussed in the EIA report as the additional farm portions to be purchased have not been fully transferred. Upon land acquisition of these portions (Farm Dornabaum No.74 and Bethlehem No.27/Rem 3), an environmental clearance certificate amendment application will be launched with the competent authority. An impact assessment study will be undertaken related to the



Comment	EAP Response
make informed comments about your planned project and to provide qualified and valuable feedback for due consideration	acquisition of these portions and any planned development activities.
All relevant information should be assessed and communicated during the environmental impact assessment for the project. We wish for the proponent to fully understand the impact of its project on the environment and on our cordoned off land. This would ensure that informed decisions can be made when the proponent commits to and complies with an adequate environmental management plan for its project.	The Proponent is committed to engage in transparent development activities that are assessed thoroughly by the appointed EAP. Formal meetings were held with the appointed EAP to fully understand the proposed scope of work. The Project specifications are provided in chapter 4 of the EIA report. Following acquisition Farm Dornbaum No.74 and Bethlehem No.27/Rem 3, the project footprint will likely expand. Therefore, the additional development activities that may be these portions will be assessed and an application to amend the environmental clearance certificate will be launched with the competent authority (MEFT).
The project footprint must be well defined and should reflect the intended extent of the game-proof fence that is proposed to be erected.	The Project footprint will be fully defined following full land acquisition of the farm portions to be purchased. An assessment will be conducted further along with an application to amend the environmental clearance certificate.
The fence will permanently prevent and eliminate the movement of any wildlife along approximately 17km, or 80%, of the boundary of our farm. The significant environmental AND economic impact were not assessed.	These socio-economic impacts will be addressed in the ECC amendment application to be launched with the competent authority (MEFT) once the additional portions have been fully procured and transferred.



impact our future use of the road.

Comment

The fence specifically aims to enclose the hunting operations and
related infrastructure of the proponent where rhino, wildebeest and all
other exotic game are bred and imported to Namibia for the purpose of
securing special targets for hunting guests. What game density is
planned with regard to each species? Our access road is covered by the
planned rhino and other game hunting grounds, which may negatively

The project area entirely covers the largest portions of the catchment area of the Skaaprivier origin, which is the main origin of groundwater recharge for our farm. Upon acquisition of the land surrounding our farm, including structural aquifers, the proponent increased the storage capacity of one major dam already. What percentage or how many cubic meters of water will be retained by the proponent's dams in the rainy season before a single cubic meter is allowed to flow onward to the downstream farms beyond the project area and seep into and recharge the underlying rock formations and structural features (faults, fractures) downstream of the project, which comprise important aquifers.

Regular rainwater recharge into the thick alluvium (sand and boulder beds) situated beneath the course of the Skaaprivier downstream from farms Waldeck, Iturea, Unkenfels, Doringboom, Bethlehem, Direlis etc. is

EAP Response

The human – wildlife interaction mitigation management measures are addressed in the EMP, chapter 5, page 23-24.

The import of rhinos and antelope species, their densities are not discussed in the current EIA study. This concept has been discussed as a limitation in chapter 6. This concept will be discussed thoroughly, and impacts will be addressed in the environmental clearance certificate amendment application once the additional farm portion are fully procured and transferred. The application to amend the environmental clearance certificate will be launched with the competent authority.

These impacts have been discussed in chapter 7, section 7.5, page 76-79. Mitigation management measures are also provided in the EMP.

The project area falls within a proclaimed groundwater control area; therefore, the Proponent will apply for abstraction permits and is committed to comply to all permit conditions.

Water required from the construction and operational phase will be sourced from two existing boreholes, of which abstraction permits will be applied for. Water will be pumped on planned schedules, but not concurrently to six 10 000 litres JoJo plastic reservoir tanks at the construction site to meet an estimate demand of between 6000 to 10 000 litres per day. The operation phase, between 9000 to 12 000 litres of water per day will be required. No direct pumping from the boreholes to



Comment	EAP Response
of critical longterm importance to all farming and other economic activities, as well as all wildlife, flora and fauna.	existing dams will be required, however overflow of storage will be pumped to the dam as top up.
Subsurface hidden rock formations beneath the alluvium of the Skaaprivier and other main stream courses form barriers and provide natural upward movement of water in the dry seasons, and therefore constitute important sources of water at numerous locations for all living organisms, including vegetation. The importance of subsurface storage of water in the subsurface aquifers along the entire Skaaprivier (and not only with isolated focus on the project area), fed and recharged by rainwater run-off cannot be overemphasised and should form the basis of a water management plan for the area. Such stored water is protected from the severe and extreme evaporation prevailing in Namibia.	No new dams will be built and there will be no enlargement of existing dams. The Proponent is further committed to engage in sound water management options by complying to all mitigation management measures as narrated in the EMP. By comply to the EMP recommendations and conditions, the Proponent is committed to develop a water management plan to ensure water is used sparingly and efficiently.
Are any new earth dams or enlargements of existing dams planned? Will excess water from any boreholes be pumped into any open dams?	No new earth dams will be construction and there will be no enlargement of existing dams. Water abstracted from existing boreholes will not be pumped directly into the dams. Instead, water will be pumped to six 10 000 Jojo tanks which will supply water required for lodge operations. Only excess water will be to the dams as top up.



IAPs comments and responses on the scoping report for the Proposed construction and development of a tourism and hunting lodge on Farm Waldeck No.28, Khomas Region, Namibia

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4 ACKNOWLEDGEMENTS

Through the ESIA process, the Proponent and ECC have endeavoured to provide a platform to hear and address all relevant comments put forward by I&APs. ECC would like to thank the I&APs and stakeholders for providing feedback during the scoping phase of the ESIA process. We acknowledge and appreciate the time required to review these documents and ECC genuinely appreciate the input provided by I&APS. The valuable feedback received during the scoping and impact assessment report review period has informed a robust impact assessment study which is submitted to the competent authorities for a record of decision to be made. ECC acknowledges that constructive feedback results in an improved ESIA and a project that is understood by the community and I&APs.