



Submitted to: Marenica Ventures (Pty) Ltd
Attention: Mr Murray Hill
P O Box 90242
Klein Windhoek
Windhoek, Namibia

### **REPORT:**

# SCOPING REPORT WITH IMPACT ASSESSMENT FOR EXPLORATION ACTIVITIES ON EPL 8795, ERONGO REGION, NAMIBIA

PROJECT NUMBER: ECC-79-422-REP-05-A

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Marenica Ventures (Pty) Ltd

#### **TITLE AND APPROVAL PAGE**

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on EPL 8795, Erongo Region, Namibia

Client Company Name: Marenica Ventures (Pty) Ltd

Client Representatives: Mr Murray Hill

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Authors: Monique Jarrett

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#### **ENVIRONMENTAL COMPLIANCE CONSULTANCY CONTACT DETAILS:**

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



Environmental Compliance Consultancy PO Box 91193, Klein Windhoek, Namibia

Tel: +264 81 669 7608

Email: info@eccenvironmental.com

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#### **EXECUTIVE SUMMARY**

Marenica Ventures (Pty) Ltd (hereafter referred to as "The Proponent") intends to carry out exploration activities on EPL 8795 for nuclear fuels in the Erongo Region The EPL is located east of Henties Bay in the Erongo Region. The EPL is located along the D1918 between Usakos and Henties Bay in the =/=Gaingu Conservancy.

The proposed Project triggers listed activities in terms of the Environmental Management Act, No. 7 of 2007 and its regulations, No. 30 of 2012. Therefore, an environmental clearance certificate is required. As part of the environmental clearance certificate application, a Scoping report with Environmental Impact Assessment EIA has been undertaken to meet the requirements of the Environmental Management Act, No.7 of 2007. This Scoping report with assessment and the preliminary Environmental Management Plan (EMP) will be submitted to the competent authority as part of the application process for the environmental clearance certificate. The proposed activities within EPL 8795 include low-impact exploration such as geochemical surveys, geophysical surveys and drilling. If new tracks are required, they will be developed by hand or by use of 4x4 vehicles.

The exploration activities will commence when the environmental clearance certificate is granted and are expected to continue for at least 3 years. A renewal application may be required to extend the activities for the duration of the exploration license.

The geology over which the EPL falls mainly consists of the Kalahari and Namib sands and Damnit group (Damara granites supergroup and Damara granite intrusions complex). The main rock type is metamorphic sedimentary rocks such as schists. The EPL is mainly covered with petric Calcisoils. The topography of the EPL area is relatively flat. The EPL falls mainly over rock bodies with little to very low or limited groundwater potential.

The plant diversity (> 100 species) for this area is very low with moderate endemism (6 to 15 species) and the dominant vegetation structure for the EPL is Sparse scrubland, the vegetation type is Central-western escarpment and inselbergs and the EPL falls within Nama-Karoo biome. The overall terrestrial diversity for the area is low compared to other parts of the country. The area within. The EPL has a high bird diversity status and a moderate mammal diversity.

The following table summarises the outcomes of the impact assessment of the key aspects and the potentially significant impacts that could arise from the exploration activities. The significance rating is provided after the mitigations have been considered.

Aspect	Potential impact	Significance with mitigation
	Hydrocarbon leaks and spills could enter	Low (2)
Water (surface - and	the aquifer causing contamination	
groundwater);	Waste items and litter can pollute	Low (1)
	drainage channels	



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Aspect Potential impact		Significance with mitigation
	Pollution of soil from hazardous and hydrocarbon waste	Low (1)
Soil	Increased exposure due to possible vegetation clearance can cause soil erosion	Low (1)
	Loss of soil quality due to mixing of earth matter, trampling and compaction	Low (1)
Air quality & visual impact (sense of place)	Air quality, visual disturbance and loss of Sense of Place from dust plumes	Minor (4)
Socio-economics	Conflict with farm owners about access, leaving gates open, suspicious movements, loss of farming area, etc.	Low (1)
(employment, demography, land-use)	Presence of exploration team could be blamed for stock theft and poaching.	Low (1)
iana ase,	Promotes job creation, skills development, and opportunities for the local economy.	Low (Beneficial)
Noisa 9 vibrations	Perceived noise impact from surveying activities on wild animals, livestock and humans due to low flying airplanes	Low (1)
Noise & vibrations	Resident, slow-moving and nesting organisms may be disturbed by excessive noise or vibrations	Low (1)
	Loss / alteration of terrestrial habitats and loss of species	Low (1)
Terrestrial ecology and	Resident and nesting organisms such as reptiles can be disturbed, injured or killed.	Low (1)
biodiversity	Alien species and weeds can be introduced to the area.	Low (1)
	Destroys grazing and kill living organisms due to accidental and uncontrolled fire	Low (2)
Heritage (culture, history, archaeology, palaeontology)	Potential damage to cultural heritage sites.	Minor (4)

Impacts with respect to airborne dust are expected to be limited to vehicular traffic and drilling activities. There will be some release of exhaust fumes from machinery that will impact the immediate vicinity but this will be of short duration. Noise impacts include those associated with drilling and other machine noise, which could be a disturbance to immediate neighbours, but this will be short in duration as well. The analysis of the impacts and the identification of mitigation and management methods, concludes that the likely significance of effects on humans from the cumulative impacts of physical disturbance, noise, dust and emissions is expected to be minor with a temporary qualitative reduction in the sense of place.



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It was determined that the impacts from noise are considered to be of minor significance. However with additional mitigation, the significance can be reduced to low. A major mitigation measure for the exploration activities will be that all activities will be undertaken during daylight hours.

Continual engagement with the committee of the Conservancy must be undertaken by the Proponent to identify any concerns or issues, and additional appropriate mitigation and management measures must be agreed upon and implemented.

The overall potential impact of this proposed Project is not considered significant as it does not exceed recognised levels of acceptable change, nor will it threaten the integrity of the receptors. The assessment is comprehensive and sufficiently identifies the potential impacts, and it is concluded that no further assessment will be required. The preliminary EMP provides the necessary mitigations and management measures required to reduce potential impacts to accepted levels.



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#### **TERMS AND ABBREVIATIONS**

ABBREVIATIONS	DESCRIPTION	
Abundant	Indicates a high occurrence or abundance	
AIDS	Acquired immunodeficiency syndrome	
AMT	Audio MagnetoTelluric	
ASX	Australian Securities Exchange	
BID	Background Information Document	
CIA	Cumulative Impact Assessment	
CITES	Convention on International Trade in Endangered Species of Wild	
	Fauna and Flora	
Common	Indicates a frequent occurrence or abundance	
DEA	Directorate of Environmental Affairs	
DEA/MEFT	Department of Environmental Affairs and Ministry of Environment,	
	Forestry and Tourism	
Е	East	
EC	Environmental Commissioner	
ECC	Environmental Compliance Consultancy	
EIA	environmental impact assessment	
EM	electromagnetic	
EMA	Environmental Management Act, No.7 of 2007	
EMP	environmental management plan	
endemic	Species that are native and restricted to a particular geographic	
	region	
ENE	east - northeast	
EPL	Exclusive Prospecting License	
ESE	east - southeast	
ESIA	Environmental and Social Impact Assessment	
GDP	Gross Domestic Product	
GG	Government Gazette	
GIS	Geographic Information System	
GN	Government Notice	
HIV	human immunodeficiency virus	
I&APs	Interested and Affected Parties	
IFC	International Finance Corporation	
IUCN	International Union for Conservation of Nature	
Km	abbreviation for kilometre used to indicate distance in metric units	
Km/h	Abbreviation for kilometres per hour which is a standard unit of	
speed expressing the number of kilometres travelled in		
Km <sup>2</sup> Abbreviation for square kilometre and is the metric unit f		
	or surface area	
low	indicates a low level of diversity or abundance	
m	abbreviation for meter used to indicate height or length in metric	
	units	



ABBREVIATIONS	DESCRIPTION	
mm	Abbreviation for millimetre used to indicate height of length in	
	metric units	
MAWLR	Ministry of Agriculture, Water and Land Reform	
MEFT	Ministry of Environment, Forestry and Tourism	
MHSS	Ministry of Health and Social Services	
MME	Ministry of Mines and Energy	
moderate	indicates	
NDP	National Development Plan	
NPC	National Planning Commission	
NSA	National Statistics Agency	
Occasional	Indicates sporadic occurrence or abundance	
Quadrant	A quarter degree of latitude or longitude used for mapping and	
	surveying purposes	
RAB	Rotary Air Blast	
RH	Relative Humidity	
SOP	Standard operating procedure	
spp	Abbreviation for species used to refer to multiple species within a	
	genus or group	
ТВ	tuberculosis	
U-pgrade ™	Uranium concentration process developed by Elevate Uranium	
Uncommon	indicates a relatively low occurrence or abundance	
	abbreviation for variety, used in botanical nomenclature to	
var	indicate a subspecies or variety of a plant species	
veld	Refers to open grasslands or savannahs in Southern Africa	
WHO	World Health Organisation	



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#### 1 INTRODUCTION

#### 1.1 COMPANY BACKGROUND

Environmental Compliance Consultancy (ECC) has been retained by Elevate Uranium (Pty) Ltd (hereafter referred to as "The Proponent") to conduct an environmental and social impact assessment (ESIA) for the exploration of rare and base, precious metal and industrial minerals in terms of the Environmental Management Act No. 7 of 2007 and its regulations of 2012. An environmental clearance certificate application will be submitted to the competent authority and the Ministry of Environment, Forestry and Tourism (MEFT) for a record of decision.

Elevate Uranium Limited is an Australian Securities Exchange (ASX) Listed company. Elevate Uranium developed a uranium concentration process (U- $pgrade^{TM}$ ) that is unique and ground-breaking, lowering the extraction cost of uranium and significantly reducing potential environmental effects associated with the reduced mass of ore to be leached. This U- $pgrade^{TM}$  process can be applied to surficial uranium deposits of which Elevate Uranium is exploring. Elevate Uranium is seeking to explore further uranium mining opportunities as the company undertakes exploration activities for Nuclear Fuel Minerals in the Erongo Region.

Marenica Ventures (Pty) Ltd (Marenica Ventures) is a wholly owned subsidiary of Elevate Uranium Limited (Elevate Uranium). Marenica Ventures holds Exclusive Prospecting License for the proposed 'Marenica East' project (referred to as "the Project" herein). The project is located within exclusive prospecting license EPL 8795 and the proponent proposes to undertake mineral exploration activities specifically for nuclear fuels. The EPL is located about 40km east of Henties Bay in the =/=Gaingu Conservancy in the Erongo Region. The EPL can be accessed via the D1918 between Usakos and Henties Bay.

The proposed Project area is Shown in Figure 1.



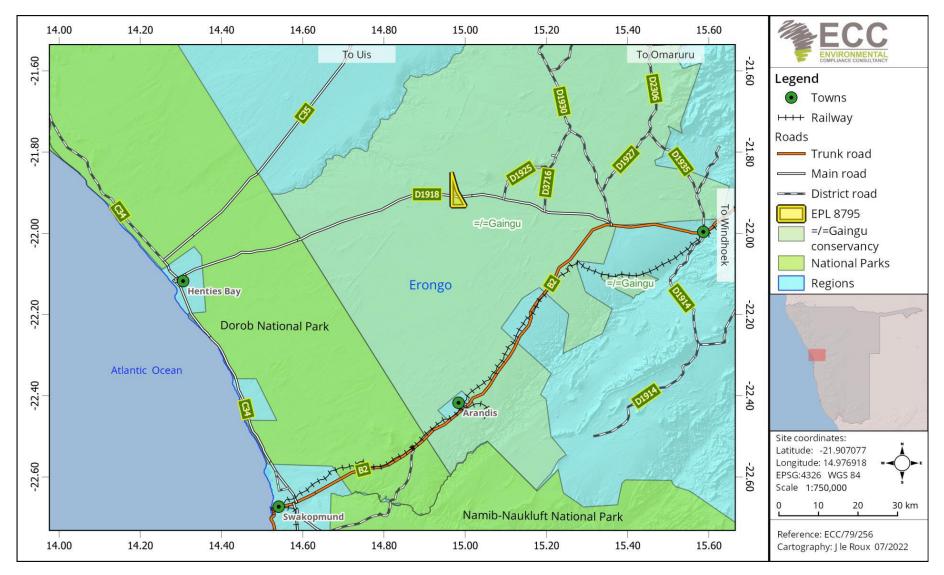


Figure 1 - Locality map of EPL 8795, Erongo Region



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#### 1.2 Purpose of the scoping report

An environmental and social impact assessment (ESIA) has commenced in terms of the requirements of the Environmental Management Act, No.7 of 2007 (EMA 2007) and its regulations. The purpose of this report is to present the findings of the scoping study phase that forms part of the larger ESIA process.

The scoping report summarises the prescribed ESIA process followed; provides information on the baseline biophysical and socioeconomic environments; project description details; outlines the terms of reference for the assessment phase and prepares a preliminary environmental management plan (EMP).

ECC's terms of reference for the assessment are strictly to address potential impacts, whether positive or negative and their relative significance, explore alternatives for technical recommendations and identify appropriate mitigation measures.

This report provides information to the public and stakeholders to aid in the decision-making process for the proposed Project. The objectives are to:

- Describe the proposed activity and the site on which the activity is to be undertaken, and the location of the activity on the site;
- Describe the environment that may be affected by the activity;
- Identify the laws and guidelines that have been considered in the assessment and preparation of this report;
- Provide details of the public consultation process;
- Describe the need and desirability of the activity;
- Provide a high-level environmental and social impact assessment on feasible alternatives that were considered; and
- Report the assessment findings, identifying the significance of effects, including cumulative effects, and effective and feasible mitigation measures.

In addition to the environmental assessment, a preliminary EMP (Appendix A) is also required in terms of the Environmental Management Act, No. 7 of 2007. A preliminary EMP (herein referred to as EMP) has been developed to provide a management framework for the planning and implementation of exploration activities. The preliminary EMP provides exploration standards and arrangements to ensure that the potential environmental and social impacts are mitigated, prevented and/or minimised as far as reasonably practicable, and that statutory requirements and other legal obligations are fulfilled.

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#### 1.3 Proponent details

Table 1 - Proponent's details

Contact Person	Contact Details
Marenica Ventures (Pty) Ltd	Murray.hill@elevateuranium.com
Mr Murray Hill	+264 81 669 7608
(CEO)	P O Box 90242
	Klein Windhoek
	Windhoek, Namibia

#### 1.4 Environmental Compliance Consultancy

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 ESIA 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



#### 1.5 ENVIRONMENTAL LEGAL REQUIREMENTS

The Environmental Management Act, No.7 of 2007 stipulates that an environmental clearance certificate is required to undertake listed activities in terms of the Act and its regulations. Listed activities triggered by the Project in terms of the Environmental Management Act, No. 7 of 2007 and its regulations are listed in Table 2:

Table 2 - Listed activities triggered by the project.

LISTED ACTIVITY	AS DEFINED BY THE ACT	RELEVANCE TO THE PROJECT
Mining and	(3.1) The construction of facilities for any process or activities that	- Minerals (soil and sand), and nuclear fuel minerals will be
quarrying	require a license, right, or other forms of authorization, and the	sourced within the project's footprint.
activities	renewal of a license, right, or other forms of authorization, in terms	- The proponent may also undertake geochemical surveys,
	of the Minerals (Prospecting and Mining Act), 1992.	geophysical surveys, and RC drilling
	(3.2) Other forms of mining or extraction of any natural resources whether regulated by law or not.	
	(3.3) Resource extraction, manipulation, conservation, and related activities.	
Waste	(2.1) The construction of facilities for waste sites, treatment of	- Waste generated which will mainly consist of solid waste
management,	waste and disposal of waste.	and general waste during the exploration phase will be
treatment,		removed and will be disposed of at the nearest landfill
handling and	(2.3) The import, processing, use and recycling, temporary storage,	site. Waste will be recycled, to the extent possible.
disposal activities	transit or export of waste.	- A portable toilet, a long drop hole for a toilet or chemical
		toilets will be used during exploration activities.
Forestry activities	(4.) The clearance of forest areas, deforestation, aforestation,	- Limited vegetation clearing may be required for tracks
	timber harvesting or any other related activity that requires	and survey access creation, and possibly for the set-up of
		survey and drilling teams' field camps. Any clearing of



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LISTED ACTIVITY	AS DEFINED BY THE ACT	RELEVANCE TO THE PROJECT
	authorisation in terms of the Forest Act, 2001 (Act No. 12 of 2001)	vegetation will require a permit from the Ministry of
	or any other law.	Environment, Forestry and Tourism (MEFT)
Water resource	(8.1) The abstraction of ground or surface water for industrial or	- For the drilling of exploration boreholes or water will be
developments	commercial purposes.	sourced from the nearest town
Hazardous	(9.2) Any process or activity that requires a permit, license, or	- Portable toilets, long drop holes for toilets, or chemical
substance	another form of authorisation, or the modification of or changes	toilets will be used during the exploration activities.
treatment,	to existing facilities for any process or activity that requires	
handling and	amendment of an existing permit, license or authorisation or	
storage	which requires a new permit, license or authorisation in terms of a	
	governing the generation or release of emissions, pollution,	
	effluent or waste.	

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#### 2 APPROACH TO THE ASSESSMENT

#### 2.1 PURPOSE AND SCOPE OF THE ASSESSMENT

This assessment aims to determine which impacts are likely to be significant; to scope the available data and identify any gaps that need to be filled; to determine the spatial and temporal scope and to 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.

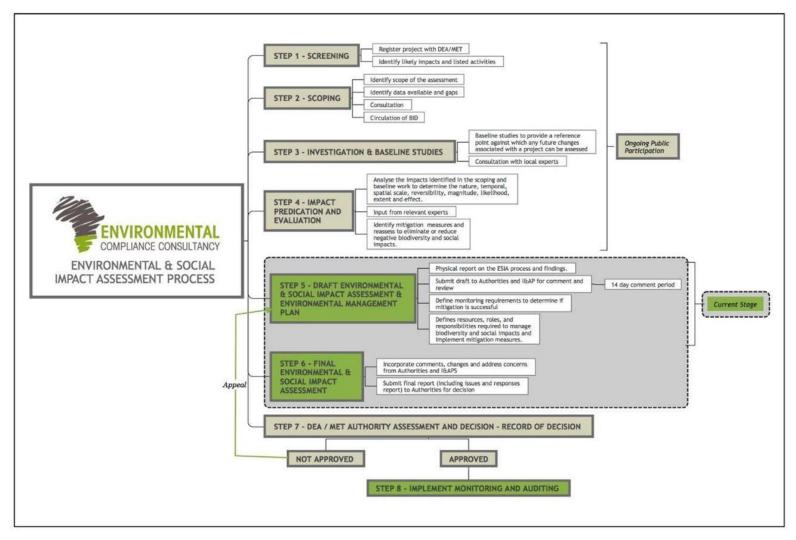
#### 2.2 THE ASSESSMENT PROCESS

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 the international and national best practice; and over 25 years of combined EIA experience, 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 considered when considering whether to grant approval, consent, or support for the proposed Project.





**Figure 2 - ESIA Process** 



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#### 2.3 SCREENING OF THE PROJECT

The first stages in the ESIA process are to register the Project with the DEA/ MEFT (completed) and undertake a screening exercise to determine whether it is considered a listed activity under the Environmental Management Act, No. 7 of 2007 and associated regulations and if significant impacts may arise from the Project. The location, scale, and duration of Project activities will be considered against the receiving environment.

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

#### 2.4 SCOPING AND THE ENVIRONMENTAL ASSESSMENT

Where an ESIA 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 (the focus of the assessment); 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. The details and outcome of the impact assessment are discussed in sections 6 and 7 of this Scoping Report.

Feedback from consultation with the client and stakeholders also informs the analysis of the impacts.

The following environmental and social aspects were considered in impact assessment:

#### SOCIO-ECONOMIC ENVIRONMENT

- Limited goods and services procurement within the local economy.

#### **BIOPHYSICAL ENVIRONMENT**

- Dust emissions
- Soil and geology
- Terrestrial ecology
- Terrestrial biodiversity (including fauna and flora)
- Groundwater (potential cumulative impact). Water management suggestions are contained in the EMP.



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#### 2.5 BASELINE STUDIES

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 because of the proposed Project can be measured. For the proposed Project, baseline information was obtained through a desktop study, consultation, and engagement with stakeholders (Appendix B), focussing on environmental receptors that could be affected by the proposed Project, and verified through site-specific information. The baseline information is covered in Section 5.

#### 2.6 Public consultation

Public participation and consultation are a requirement as stipulated in the Environmental Impact Assessment Regulations (Regulations 21 and 23) of the EMA, No.7 of 2007, for a project undertaking a listed activity and requires an 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 ESIA process. The objectives of the public participation and consultation process are to:

- Provide information on the Project, introducing the overall project concept and planning in the form of a background information document (BID)
- Determine the relevant government, regional and local regulating authorities
- Listen to and understand community issues, record concerns and questions
- Explain the process of the ESIA and timeframes involved and establish a platform for ongoing consultation

# 2.6.1 IDENTIFICATION OF KEY STAKEHOLDERS AND INTERESTED AND AFFECTED PARTIES

A stakeholder mapping exercise was undertaken to identify individuals or groups of stakeholders, and the method in which they will be engaged during the ESIA process.

Stakeholders were approached through direct communication (letters and phone calls), the national press, or directly by email. A summarized list of stakeholders for this project is given below:

- The general public with an interest in the Project;
- Ministry of Environment, Forestry and Tourism (MEFT);
- Ministry of Mines and Energy (MME);
- Erongo Regional Council and
- Henties Bay Town Council
- =/=Gaingu Conservancy

The records of the public consultation process in the form of a summary report will provide a list of interested and affected parties (I&AP's), evidence of consultation, including minutes of public



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meetings, advertisements in national newspapers, and a summary of the comments or questions raised by the public.

#### 2.6.2 NON-TECHNICAL SUMMARY

The Background Information Document (BID) presents a high-level description of the proposed Project; sets out the ESIA process and when and how consultation is undertaken; and provides contact details for further Project -specific inquiries to all registered I&APs. The BID was distributed to registered I&APs and the BID can be found in Appendix B.

#### 2.6.3 NEWSPAPERS AND ADVERTISMENTS

Notices regarding the proposed Project and associated activities were circulated in three newspapers namely the 'Republikein, Sun, and Allgemeine Zeitung' on the 17<sup>th</sup> of October and 24<sup>th</sup> of October 2022 (see Appendix C). The purpose of this was to commence the consultation process by informing the public about the Project and enabling I&APs to register and submit any concerns or comments about the Project.

#### 2.6.4 SITE NOTICES

A site notice ensures neighbouring properties and stakeholders are made aware of the proposed Project. The notice was set up at the boundary of the EPL as illustrated in Appendix C.

#### 2.6.5 PUBLIC MEETING

In terms of Section 22 of the Environmental Management Act, No. 7 of 2007 and its regulations, for the purpose of registering I&APs. a public meeting is not a requirement during the public consultation process for all projects. The EAP decided not to call for a public meeting but rather engage directly with stakeholders and consider any written comments and concerns submitted through the registration of interested and affected parties.

#### 2.6.6 SUMMARY OF ISSUES RAISED

The I&APs were encouraged to provide constructive input during the consultation periods. The public is further provided with an opportunity to send any comments on the draft scoping report with impact assessment and the EMP. These will be included and addressed, where applicable, in the final scoping report with impact assessment and the EMP.

#### 2.7 Draft scoping report with impact assessment and preliminary emp

The draft scoping report with impact assessment and preliminary EMP will be submitted to the public for review prior to submission to the competent authority and DEA.

This report documented the findings of the assessment process, provides stakeholders with the opportunity to comment and continue to engage in consultation and forms part of the environmental clearance application. The preliminary EMP provides measures to manage the



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potential environmental and social impacts of the proposed Project and outlines specific roles and responsibilities to fulfil the plan. The draft documents will be updated with the additional comments that stem from the public review of the reports.

#### 2.8 Final scoping report with impact assessment and preliminary emp

The final scoping report with impact assessment, associated appendices will be available to all stakeholders on the ECC website <a href="https://eccenvironmental.com/download/the-proposed-exploration-of-nuclear-fuels-on-epl-8728-8792-and-8795-erongo-region-namibia/">https://eia.met.gov.na/</a>. All I&APs will be informed of this via email.

These same final documents are formally submitted to the competent authority, namely, the Ministry of Mines & Energy. A copy of the submission proof and the same set of the documents are submitted to the Office of the Environmental Commissioner, DEA department as part of the application for an environmental clearance certificate.

#### 2.9 AUTHORITY ASSESSMENT AND DECISION MAKING

The Environmental Commissioner in consultation with the MME and other relevant authorities will assess the findings of the Final Scoping with Impact Assessment. If deemed acceptable, the Environmental Commissioner will revert to the Proponent with a record of decision and any recommendations. If the clearance is not granted, then reasons are normally provided. For example, it may be required for the Proponent to undertake a detailed assessment. A detailed assessment most likely entail the commissioning of specialist studies with impact assessments and the necessity of public meetings.

#### 2.10 Monitoring and auditing

In addition to the EMP being implemented by the Proponent, a monitoring strategy and audit procedure will be determined by the Proponent and competent authority (i.e. MME). This will ensure key environmental receptors are monitored over time to establish any significant changes from the baseline environmental conditions caused by Project activities.



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#### 3 REVIEW OF THE LEGAL ENVIRONMENT

As stated in Section 1, an environmental clearance certificate is required for any activity listed in the Government Notice No. 29 of 2012 of the EMA 2007. The Project area is located within a registered conservancy area but outside the Dorob National Park and any recognised heritage area (e.g. Spitzekoppe Massifs).

A thorough review of relevant legislation has been conducted for the proposed Project. Table 3 below identifies relevant legal requirements specific to the Project. Table 4 provides the national policies and plan.



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**Table 5** specifies permits relevant for the Project. This chapter outlines the regulatory framework applicable to the proposed Project.



#### 3.1 NATIONAL REGULATORY FRAMEWORK

Table 3 - Details of the regulatory framework as it applied to the proposed Project.

National Regulatory Regime	Summary	Applicability to the Project
Constitution of the Republic of Namibia (1990)	The constitution defines the country's position in relation to sustainable development and environmental management.  The constitution refers that the State shall actively promote and maintain the welfare of the people by adopting policies aimed at the following:  "Maintenance of ecosystems, essential ecological processes and biological diversity of Namibia, and the utilisation of living, natural resources on a sustainable basis for the benefit of all Namibians, both present, and future."	The Proponent is committed to the sustainable use of the environment, and has aligned its corporate mission, vision, and objectives within the ambit of the Constitution of the Republic of Namibia (1990).
Minerals (Prospecting and Mining) Act No. 33 of 1992	The Act provides for the granting of various licenses related to mining and exploration.  Section 50 (i) requires: "An environmental impact assessment indicating the extent of any pollution of the environment before any prospecting operations or mining operations are being carried out, and an estimate of any pollution, if any, likely to be caused by such prospecting operations or mining operations."  The Act sets out the requirements associated with license terms and conditions, such that the holder of a mineral license shall comply with.	Exclusive Prospecting License EPL 8795 was issued to the Proponent in June 2022 and is valid for a period of 3 years. The proposed prospecting activity on EPL 8795 requires an EIA to be carried out, as it triggers listed activities as defined in Government notice 29 in the Environmental Management Act 2007.  Prospecting activities in EPL 8795 shall not commence until an Environmental Clearance Certificate has been issued in accordance with the provisions of the Environmental Management Act 2007.

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National Regulatory	Summary	Applicability to the Project
Regime	<b>,</b>	7.pp. a.a.a
	The Act also contains relevant provisions for pollution control related to mining activities and land access agreements and provides provisions that mineral license holders are liable for any damage to land, water, plant, or animal life, caused by spilling or pollution, and must take all such steps as may be necessary to remedy such spilling, pollution, loss, or damage, at its own costs.	The Project shall be compliant with Section 76 of the Act with regard to records, maps, plans and financial statements, information, reports and returns submitted.
Environmental Management Act, 2007 (Act No. 7 of 2007) and its regulations (2012), including the Environmental	The Act aims to promote sustainable management of the environment and the use of natural resources. The Act requires certain activities to obtain an environmental clearance certificate prior to Project development.	This environmental scoping report documents the findings of the scoping phase of the environmental assessment undertaken for the proposed Project.
Impact Assessment Regulation, 2007 (No. 30 of 2011)	The Act states that an EIA should be undertaken and submitted as part of the environmental clearance certificate application process.	The process will be undertaken in line with the requirements under the Act and its regulations.  Prospecting activities on EPL 8795 shall not commence until an Environmental Clearance Certificate has been issued in accordance with the provisions of the Environmental
	The MEFT is responsible for the protection and management of Namibia's natural environment. The Department of Environmental Affairs, under the MEFT, is responsible for the administration of the EIA process.	Management Act 2007.
Hazardous Substances Ordinance, No. 14 of 1974	This Ordinance provides for the control of toxic substances and can be applied in conjunction with the Atmospheric Pollution Prevention Ordinance, No. 11 of 1976. This applies to the manufacture, sale, use, disposal, and dumping of hazardous substances, as well as their import and export.	The planned Project will involve the handling and onboard storage of hazardous substances such as fuels, reagents, and industrial chemicals.
Labour Act, No. 11 of 2007	The Labour Act, No. 11 of 2007 (Regulations relating to the Occupational Health & Safety provisions of Employees at Work, promulgated in terms of Section 101	The Project shall adhere to all labour provisions and guidelines, as enshrined in the Labour Act. The Project shall also develop and implement a comprehensive occupational



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National Regulatory	Summary	Applicability to the Project
Regime		
	of the Labour Act, No. 6 of 1992 - GN156, GG 1617 of 1	health and safety plan to ensure adequate protection for its
	August 1997)	personnel throughout the Project lifecycle.
Petroleum Products and	Provides provision for the Minister to regulate the	The proposed project should take into consideration the
Energy Amendment Act, No.3	cleaning up of petroleum product spills, leaks and	requirements that are stipulated in both the Act and its
of 2000	related incidents. The Proponent is required to carry all	Regulations. Measures in the EMP sets out methods to
	costs associated with such incidents.	comply with the Regulations, specifically waste disposal
		during exploration.
Atomic Energy and Radiation	Annual reporting on the implementation of the	The proposed project should take into consideration the
Protection Act, Act 5 of 2005.	Radiation Management Plan to ensure radiation safety	requirements that are stipulated in both the Act and its
	and protection on site	Regulations. Measures in the EMP sets out methods to
		comply with the Regulations, specifically waste disposal
		during exploration
Radiation Protection & Waste	This Regulations makes provision for proponents to	The proposed project should take into consideration the
Disposal Regulations (No 221	prepare and implement a Radiation Management Plan,	requirements that are stipulated in both the Act and its
of 2011)	commensurate with the activities of operations.	Regulations, the Radiation Protection and Waste Disposal
		Regulations. Measures in the EMP sets out methods to
		comply with the Regulations, specifically waste disposal
		during exploration.

#### 3.2 NATIONAL POLICIES AND PLANS

#### Table 4 - National policies and plans applicable to the proposed Project

Policy or plan	Description	Relevance to the Project
Vision 2030	Vision 2030 sets out the nation's development targets	The proposed Project shall aim to meet the objectives of
	and strategies to achieve its national objectives.	Vision 2030 and shall contribute to the overall development
		of the country through continued employment
		opportunities and ongoing contributions to the gross
		domestic product (GDP).



Policy or plan	Description	Relevance to the Project
	Vision 2030 states that the overall goal is to improve the	
	quality of life of the Namibian people aligned with the	
	developed world.	
Fifth National Development Plan (NDP5)	The NDP5 is the fifth in a series of seven five-year national development plans that outline the objectives and aspirations of Namibia's long-term vision.	The planned Project supports meeting the objectives of the NDP5 through creating opportunities for continued employment.
	The NDP5 pillars are economic progression, social transformation, environmental sustainability, and good governance.	
The Harambee Prosperity	Second Pillar: Economic advancement – ensuring	The Project will contribute to the continued advancement
Plan II (2021 – 2025)	increasing productivity of priority key sectors (including	of the mining industry and create an additional
	mining) and the development of additional engines of	employment generation engine within the regional and
	growth, such as new employment opportunities.	national landscape.
Namibia's Green Plan, 1992	Namibian has developed a 12-point plan for integrated	Guidelines as best practise to be adhered too during
	sustainable environmental management to ensure a	operational activities.
	safe and healthy environment and to maintain a viable	
	economy. Clause 2 (f) makes specific mention to	
	guidelines related to Mining and Sustainable Development.	
Minerals Policy	The Minerals Policy was adopted in 2002 and sets	The planned Project conforms to the Policy, which has been
-	guiding principles and direction for the development of	considered through the ESIA process and the production of
	the Namibian mining sector, while communicating the values of the Namibian people.	this report.
	The policy strives to create an enabling environment for	The Proponent intends to continue to support local
	local and foreign investments in the mining sector and	spending and procurement.
	seeks to maximise the benefits for the Namibian people	
	from the mining sector, while encouraging local	The Project will comply with the general guidelines of the
	participation.	Policy through the adoption of various legal mechanisms to manage all aspects of the environment effectively and



Policy or plan	Description	Relevance to the Project
	The objectives of the Minerals Policy are in line with the	sustainably from the start. The ESIA is one such mechanism
	objectives of the Fifth National Development Plan that	to ensure environmental integrity throughout the planned
	include reduction of poverty, employment creation, and	Project's lifecycle.
	economic empowerment in Namibia.	



#### Table 5 - Specific permits and license requirements for the proposed Project

Permit or license	Act or Regulation	Related activities requiring a permit	Relevant Authority
Environmental clearance	Environmental	Required for all listed activities shown in Table 2.	Ministry of Environment, Forestry and
certificate	Management Act, No 7 of	Requires issuance of Environmental Clearance	Tourism (MEFT)
	2007	Certificate by the Environmental Commissioner.	
Exclusive Prospecting	Section 90 (2) (A) of the	Written permission from the mining commissioner	Ministry of Mines and Energy (MME)
License	Minerals Act, No.33 of	in the form of an Exclusive Prospecting License	
	1992	(EPL 8795) has been issued to date.	
Water abstraction permit	Water Act, 1996	This Act provides for "the control, conservation	Ministry of Agriculture, Water and Land
		and use of water for domestic agricultural, urban	Reform (MAWLR)
		and industrial purposes; to make provision for the	
		control, in certain respects and for the control of	
		certain activities on or in water in certain areas".	
		The Ministry of Agriculture Water and Land Reform	
		Department of Water Affairs is responsible for the	
		administration of the Water Act. The Minister may	
		issue a Permit in terms of regulations 5 and 9 of	
		the government notice R1278 of 23 July 1971 as	
		promulgated under section 30 (2) of the Water Act	
		no. 54 of 1956, as amended. To abstract water	
		from a controlled water source, a WA 002 should	
		be filled and submitted to the MAWF	
Notice of Intention to	Water Resources	Despite any other law to the contrary, a person	Ministry of Mines and Energy (MME)
drill	Management Act, 2004	who proposes to drill a new borehole, or to	
		improve any existing borehole, for the purpose of	
		searching for or extracting minerals or other	



Permit or license	Act or Regulation	Related activities requiring a permit	Relevant Authority
		substances, or for road construction or any other	
		purposes other than exploring for groundwater	
		must inform the Minister of such proposal; furnish	
		the Minister with such data and information as the	
		Minister may require in connection with such	
		borehole drilling or improvement; and take such	
		measures as may be required by the Minister for	
		conserving and protecting groundwater. Any	
		excess water collected as a result of any operation	
		contemplated in subsection (1) must be disposed	
		of as prescribed	

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#### **4 PROJECT DESCRIPTION**

#### 4.1 NEED FOR THE PROJECT

The mining sector in Namibia contributes to the country's Gross Domestic Product (GDP), government tax receipts and export revenues. For this reason, exploration activities are encouraged in Namibia and the vision of the Minerals Policy being to "further attract investment and enable the private sector to take the lead in exploration, mining, mineral beneficiation and marketing" supports mineral exploration and development.

The proposed Project is in line with this vision and has the potential to create employment in local communities in the Hardap Region. In the event that exploration activities are successful, and a resource can be defined, with commercially viable mineral concentrations, exploration operations can result in socio-economic development in the area.

#### 4.2 ALTERNATIVES CONSIDERED

In terms of the Environmental Management Act, No. 7 of 2007 and its regulations, alternatives considered should be analysed and presented in the scoping assessment and EIA report. 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.

Exploration activities range from extremely low impact exploration such as remote sensing from satellites to more invasive methods such as extensive close-spaced drilling. The methods used shall be determined, based on the exploration programme, which is further designed once more information and data is obtained. At this stage of the Project, the exploration activities are yet to be finalised and therefore a range of options remain. Once the exploration programme is further defined, the most suitable options and methods shall be identified to ensure the impacts on the environment and society are minimized.

#### 4.2.1 NO-GO ALTERNATIVES

Should exploration activities within EPL 8795 not take place, the anticipated environmental impacts from exploration activities would not occur, however, the social and economic benefits associated with the Project would also not materialize.

There would not be an opportunity to define resources within the Project area, which would be a missed opportunity for geological mapping and data collection that typically adds to regional knowledge of Namibia's mineral wealth and, if found to be viable for mining, would benefit the Namibian economy.



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#### 4.3 EXPLORATION METHODOLOGY

All geological and geophysical work will be conducted by Marenica geologists. The schedule of activities is presented in Table 6.

**Table 6 - Preliminary Exploration Schedule** 

Phase	Date	Activity Description
1	1 month	Acquire Government Mag/Rad and Geology
1	2 months	Interpret data, literature search and review
2	1 month	Ground truth Anomalies
2	2 months	Ground Rad survey
2	2 months	soil and rock sampling
2	2 months	geological mapping
2	2 months	EM survey
3	2-3 months	If warranted shallow RC drilling

Exploration activities on EPL 8795 will include soil and rock sampling, geological mapping, electromagnetic and geophysical surveys, drilling and core sampling. Some vegetation may be cleared to allow access tracks and working areas to be created and for the installation and development of exploration drill holes.

The exploration methods on each EPL site may involve the following methods: drilling; aerial or remote sensing; ground penetrating radar; and mineral sampling. Further detail of these methods are as follows:

#### **REMOTE SENSING AND GEOPHYSICAL SURVEYS**

During mineral exploration, remote sensing and geophysical surveys enables explorers to find and assess deposits without having to undertake massive exploration operations. Remote sensing may be used to map the geology and existing faults and fractures that localize the ore deposits or may be used to recognize rocks which have been hydrothermally altered. Remote sensing includes a number of tools and techniques including geographical information systems, radar, geographical information systems and sonar.

#### **GROUND PENETRATING RADAR**

Ground penetrating radar is a non-destructive geophysical survey that can detect subsurface features without drilling, probing, or digging. This method is likely to be the preferred method for exploration activities on the EPL. This will most likely be undertaken by foot.

#### REVERSE CIRCULATION (RC) DRILLING AND DIAMOND DRILLING



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Drilling to be undertaken in order to obtain drill core samples. The collected samples will be temporarily stored in plastic bags on site and transported to a sample preparation laboratory at Tschudi or in Swakopmund.

All exploration activities will be undertaken in programmed segments. The number of drill holes will be determined on results obtained through the data collection during ground penetrating radar. Equipment used during drilling shall include a truck.

Pitting and trenching are unlikely as this is not the preferred method of exploration and therefore have not been included in this scoping report.

Existing tracks shall be used as far as reasonably practicable. In the event that new tracks are required, they will be developed by hand or by use of a 4x4 vehicle. Vegetation clearing will be limited to clearing for access tracks and site camps, should additional areas be cleared for exploration activities the Forest Act, No. 12 of 2001 and its regulations will be complied with (the relevant forestry permits will be applied for if required). Any established or large trees or specially protected plant species shall not be removed, and access tracks will be routed to avoid these wherever possible and permits will be obtained as necessary.

#### 4.3.1 EXPLORATION SCHEDULE

The exploration activities are executed and managed from the Elevate Exploration Office in Swakopmund. Field exploration activities, using techniques as discussed above, are anticipated to be carried out over the license validity period. Remote sensing studies and planning phases for the prospecting programme will require 1 months. Geochemical sampling will be undertaken concurrently with geological mapping for approximately 2 months. Geophysical surveys will then be carried out over a period of about 2 months after which the Project will advance to reverse circulation or core drilling.

The duration of drilling programs is variable, and usually depends on the information that is gained from drilling. Applications for the environmental clearance certificate, along with all required permits will be submitted during this period should a renewal of the EPL be required.

#### 4.3.2 EQUIPMENT AND MATERIALS

During the exploration phase, double and single cab vehicles will be used to transport materials and equipment to the site. A drill rig rubber tyred truck will be brought to site for drilling, along with a water tank and supporting equipment such as rods, and fuel, and compressor for use during drilling which will be on the drill rig.



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#### 4.3.3 POWER SUPPLY

The individual contractors will be responsible to supply their own energy needs throughout the duration of their stay within the field camps. The Proponent prefers the use of small-scale generators.

#### 4.3.4 WATER SUPPLY

Water will be required for various uses including human consumption during the planned exploration activities and to support any of the exploration activities. Water required for exploration activities will be trucked to site by the drilling support vehicles.

#### 4.3.5 ACCOMMODATION

10-20 personnel will be required during exploration activities. Staff will be accommodated in designated field camps located within the EPL and within the park during the exploration programme. The field camp infrastructure includes tents and toilets.

#### 4.3.6 WASTE MANAGEMENT

Waste produced on-site will include solid waste such as packaging material and field camps household waste. Hazardous waste if any, such as (hydrocarbon contaminated soil, etc.) will be disposed of at the Walvis Bay municipal landfill site. The Proponent should ensure waste is collected in categorised bins and that the waste hierarchy of (reduce, reuse, and recycle) is practiced as practically as possible. The banning of plastics bags in national parks or nature reserve as per the Government notice No.85, published in the Government Gazette No. 6285 in April 2017 should be adhered to unless:

- Designated to be used for the disposal of waste;
- Designated for agricultural purposes;
- Used for sampling or analysis;
- That constitutes or form an integral part of, the packaging in which goods are sealed prior to sale in the local market or for export; or
- That it is a transparent resealable bag

#### 4.3.7 WASTEWATER EFFLUENT

Wastewater (e.g., water with drill additives) used during drilling is recycled, contained and allowed to evaporate after use. Sewerage may as well, be produced on site and in the case of provision of the mobile toilets to be used on site, sewerage generated shall be managed by the toilet contractor. Wastewater that is discharged into the environment must comply with wastewater discharge specifications.

#### 4.3.8 REHABILITATION

Once exploration activities are completed the areas shall be rehabilitated to a condition as close to the original state as possible. Rehabilitation shall be determined during the exploration



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programme and shall be agreed with the landowners and authorities as per legislation (discussed in Section 3). Before and after photographs will be used to monitor rehabilitation success. The Proponent is committed to restoring any historic exploration disturbed areas from their activities.



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### 5 ENVIRONMENT AND SOCIAL BASELINE

A detailed environmental and socio-economic baseline assessment of the Project is provided in this report. 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 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.

### 5.1 BASELINE DATA COLLECTION

Initial baseline studies relevant to the Project formed part of the initial environmental assessment conducted for the EPL on which the Project is situated.

### 5.2 LAND USE

EPL 8795 is situated to located east of Henties Bay in the Erongo Region. Access to the EPL can be obtained via the D1918 between Usakos and Henties Bay. This region has mixed agriculture (livestock and communal lands), tourism activities and mining. The EPL falls within the =/=Gaingu conservancy.

### 5.3 CLIMATE

EPL 8795 is situated to located east of Henties Bay in the Erongo Region. Access to the EPL can be obtained via the D1918 between Usakos and Henties Bay. The climatic conditions characterising the EPL area are warm summers and cool winters with the mean temperatures between 21 °C and 22 °C, mean maximum temperatures ranging between 27 °C and 33 °C and mean minimum temperatures ranging between 8 °C to 19 °C. The hottest months of the year are between January and April and the coolest months are in June and August (Bubenzer, 2002 & meteoblue, 2022).

The months with the highest humidity, have a humidity of approximately 70% RH, and the driest months have a humidity of approximately 20% RH. The average rainfall in this area during the year is between 50 to 100 mm and rainfall events are limited to the summer months, mainly between November and April. Potential evaporation is between 3200 and 3400 mm per year (Bubenzer, 2002) shown in Figure 3.

The site has wind speeds between 0 and 28 km/h, where the months of May to August are known to be the windiest months. Wind can occur any time of the day and the most predominant wind directions for this area are ENE, SW and SSW (Figure 4) (meteoblue, 2022).

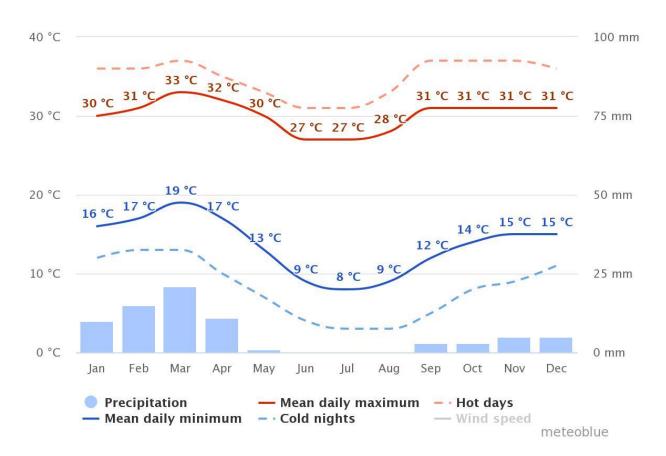


Figure 3 - Climate of the area



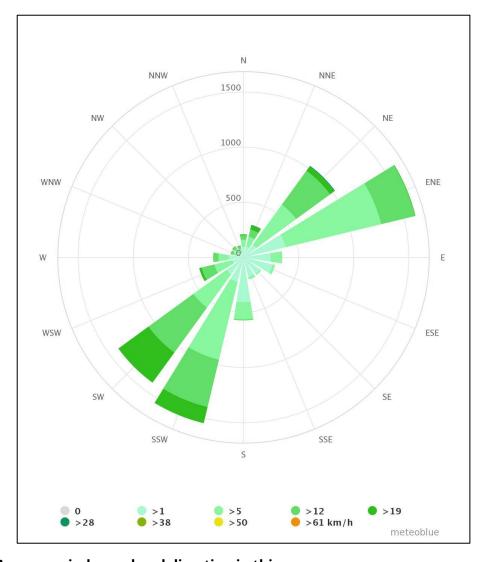


Figure 4 - Average wind speed and direction in this area

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## 5.4 Soil, Geology and Topography

The geology over which the EPL falls mainly consists of the Kalahari and Namib sands and Damnit group (Damara granites supergroup and Damara granite intrusions complex). The main rock type is metamorphic sedimentary rocks such as schists (Bubenzer, 2002) shown in (Bubenzer, 2002) shown in Figure 5.

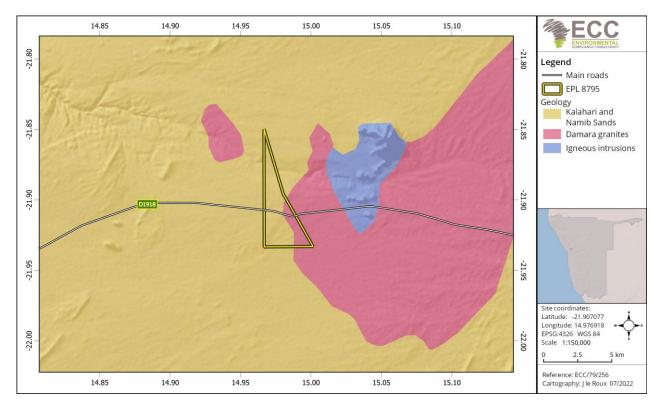


Figure 5 - Geology of the area

The topography of the EPL area is relatively flat. (Figure 6). The highest point being about 887m above sea level and the lowest point is just below 840m above sea level.

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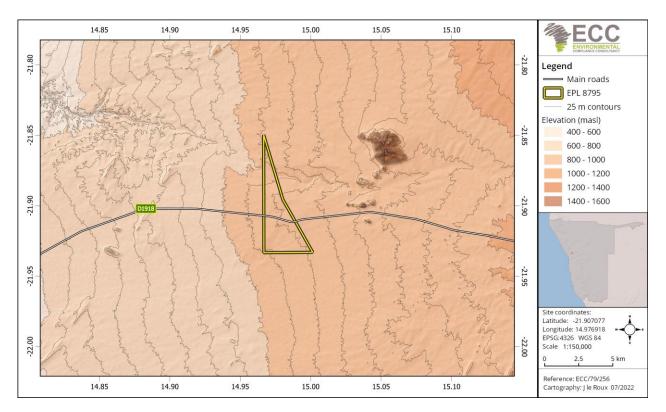


Figure 6 - Elevation of the area

Namibian soils vary a great deal on a broad scale with a great deal of variability at a local level. The EPL is mainly covered with petric Calcisoils. Petric meaning soils with a solid layer at a shallow depth that remains hard even when wet and Calcisoils meaning soils that are found in depressions or other low-lying areas of the landscape and typically contain accumulations of calcium carbonate, often in a cement form called calcrete as shown in Figure 7.

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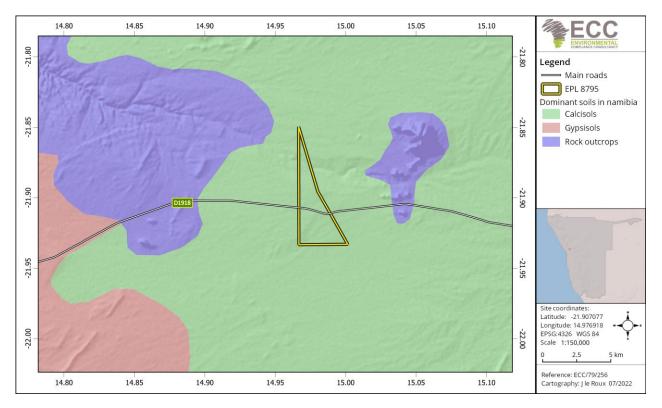


Figure 7 - Soil Characteristics of the area

## 5.5 Hydrogeology

According to the Namibian Monitoring Information System & Hydrological Map of Namibia (https://na-mis.com/)the site falls mainly over rock bodies with little to very low or limited groundwater potential. The groundwater vulnerability in this area is considered to be very low vulnerability and groundwater recharge within this area is considered to be very low (0% of the total average rainfall). Groundwater in this area is generally of poor quality not suitable for human consumption. This EPL falls over the Erongo groundwater basin and has many minor drainage lines running through the EPL and a major non-perinnal river the Spitzkop River and the EPL falls with the Omaruru catchment area as shown in Figure 9.

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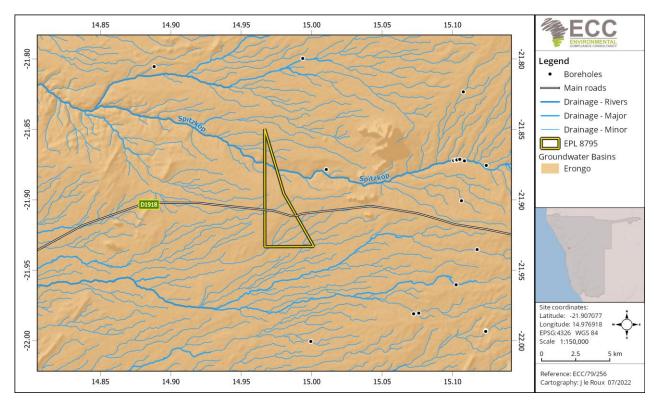


Figure 8 - Hydrology of the area

### 5.6 BIODIVERSITY BASELINE

### 5.6.1 FLORA

Vegetation in Namibia is strongly influenced by rainfall. The plant diversity and tallest trees are most lush in the north-eastern parts of the country and contrast sparser and shorter to the west and south of the country. This gradient is not simple as factors such as soil types, landscape and human impacts may also influence the vegetation. The plant diversity (> 100 species) for this area is very low with moderate endemism (6 to 15 species) and the dominant vegetation structure for the EPL is Sparse scrubland, the vegetation type is Central-western escarpment and inselbergs and the EPL falls within Nama-Karoo biome the dominated by *Acaia montis-ustii* and *Acaia robynsiana* (Mendelsohn et al. 2002) shown in Figure 9.



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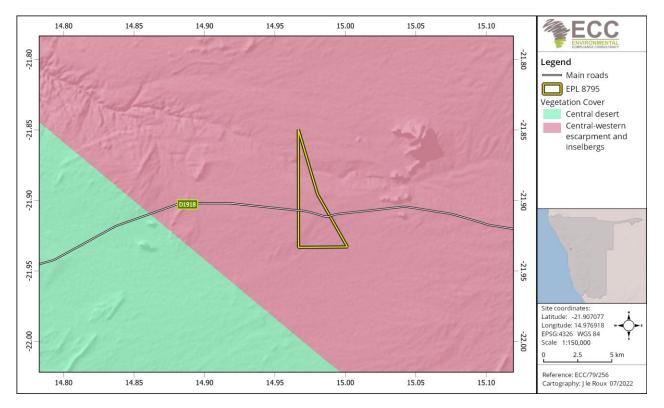


Figure 9 - Vegetation of the area

### 5.6.2 FAUNA

The overall terrestrial diversity for the area is low compared to other parts of the country. The area within. The EPL has a high bird diversity status of about 11-140 species (residents and migrants), with a low to moderate bird endemism (between 4 to 5 species) and represents an area with moderate mammal diversity of between 61-75species (7-8 of these species are endemic). (Bubenzer, 2002, IUCN, 2021, Mendelsohn et al., 2002, Oberprieler and Cillié, 2008 & Stuart and Stuart, 2015).

Furthermore, the reptile diversity within this area is moderate with between 61-70 species, 7-8 endemic species (low); the number of observed lizard species for this area is between 21 to 24 of which 12-14 species are endemic (moderate) and the different snakes recorded are between 21 to 24 species (>10 endemic species). This area also has a very low frog diversity of 3 species, and also a low scorpion endemism of 7-8 species. (Bubenzer, 2002 & Mendelsohn et al., 2002).

### 5.7 SOCIAL AND SOCIO-ECONOMIC BASELINE

Erongo Region is clustered into seven constituencies (Arandis, Daures, Karibib, Omaruru, Swakopmund, Walvis Bay Rural and Walvis Bay Urban). The region's capital town is Swakopmund. Local authorities govern the towns in a form of municipalities. The projected total population for Erongo Region was 150 809, making up 9.4% of the country's population and an annual growth rate of 0.6 % in 2018 (NSA, 2018).



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### 5.7.1 EMPLOYMENT

In 2018, 53.4 % of all working Namibians were employed in the private sector and 21.5 % by the state. State-owned enterprises employ 7.6 % of Namibians and private individuals 16.6 %. Wages and salaries represented the main income source of 47.4 % of households in Namibia. Agriculture (combined with forestry and fishing) as an economic sector has the most employees – 23 % of all employed persons in Namibia work in this sector. Agriculture is also the sector that employs the most informal workers in Namibia, calculated at 87.6 %. Wages of employees in the agriculture sector are lower than all other sectors except for workers in accommodation and food services and domestic work in private households (NSA, 2019).

Overall, the rate of unemployment is estimated at 33.4 % for Namibia, using the broad definition of unemployment. More than 60 % of the population is over 15 years of age and about one-third of the total population can be regarded as part of the labour force. The unemployment rate in rural and urban areas is almost the same – 33.4 % in urban areas and 33.5 % in rural areas (NSA, 2019). The youth group also ranks high in unemployment levels, even though many Namibia youth complete post-secondary education. In 2018 the unemployment level was at 59.6 % for those aged 15-19, 57 % for those aged 20-24, and 42.3 % for 25-29-year-olds (NSA, 2018).

### 5.7.2 ECONOMIC ENVIRONMENT

Mining plays a pivotal role in the economy of Namibia. Since independence, it has consistently been the biggest contributor to Namibia's economy in terms of revenue and accounts for 11% of the country's income (National Planning Commission, 2021). Mining is one of the main contributors to GDP, and one of the largest economic sectors of Namibia.

In 2022 Namibia recorded a growth of 4.6% which was mainly driven by mining (especially due to the growth of the diamond production) due to the fact that this industry saw a growth of 45.1% growth in 2022. Primary industries saw a growth of 12.9% mainly attributed to mining and quarrying falling under this industry (Namibia Statistics Agency, 2022).

Secondary industries saw a recovery from 2021 of 3.3% (Namibia Statistics Agency, 2022). However, agricultural industries have been negatively impacted due to drought and the war in Ukraine. With ever increasing fuel prices, inflation has increased to a high of 6.1%, an all-time high since 2017 thus affecting the most vulnerable (The World Bank, 2023).

### 5.7.3 CULTURAL HERITAGE

From the Namibian GIS data and information from the Atlas of Namibia and other sources, there are no sites concerning the following periods near (within 10km) or within EPL boundaries: records from 1.8 million to 10000 years ago, past 10000 and 2000 years or within the last 2000 years (Bubenzer, 2002 & Mendelsohn et al., 2002). Regardless, there is still the potential to uncover undiscovered heritage remains.

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# 6 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 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





### THE FOLLOWING PRINCIPLES ARE USED BY ECC FOR **ASSESSMENTS**

- International Finance Corporation international Finance Corporation standards and models, in particular Performance Standard 1, Assessment and management of environmental and social fisis and impacts (international Finance Carporation, 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, 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 value. The magnitude of change may after over time, therefore temporal variation is considered (short-lerm, medium-lerm, long-farm, reversible, reversible environmental 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 undestrable factor.

### DIRECT

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

## ECC - TYPE OF IMPACT

MAGNITUDE OF CHANGE

( ) INDIRECT

Impacts that result from other activities that are encouraged to happen 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 interacting with those from another activity to create an additional impact and effect

### REVERSIBILITY



## REVERSIBLE



IRREVERSIBLE Some parts of the impact Impacts which are can be reversed while afters remain

not reversible and are permanent

## DURATION

## TEMPORARY Transient; a period of less than 1

ON-SITE

Impacts that are

limited to the boundaries of the

proposed project site

and recoverable in the

Julure

impacts that are likely to last for the duration year of the activity recoverable (1-5 years)

### SHORT TERM MEDIUM TERM

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

SCALE OF CHANGE - EXTENT / GEOGRAPHIC SCALE

LOCAL

Impacts that occur in the

local area of influence, including around the proposed site and within

the wider community

## LONG TERM

PERMANENT Impacts that are likely to lost far beyond the end of the activity causing the damage (greater than 15 years with impact ceasing after decommissioning of the project)

REGIONAL

impacts that affect a

receptor that is regionally important by virtue of scale.

designation, quality or rarity

### VERY HIGH /

Loss of resource, significantly affecting the long ferm qualify and inlegify of a resource imparable damage or loss of key characteristics, features or elements; or the magnitude is too great to quantity as it is unknown.

### HIGH / MAJOR

UNKNOWN

Loss of resource, and augity and integrity of resource; severe domage to key characteristics, features or elements; or

Large scale or major improvement of resources quality, edensive restoration or enhancement, major improvement of attribute quality.

### MODERATE

Loss of resource, but not adversely affecting its integrity, partial loss of/domage to key characteristics, features ar elements; or Benefit to, or addition of, key characteristics, features or elements; improvements of attribute quality.

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

### TOW / MINOR

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

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

NEGLIGIBLE

## NONE /

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

### NATIONAL INTERNATIONAL

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

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

### PROBABILITY

### IMPROBABLY (RARE)

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

## The event has happened

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

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

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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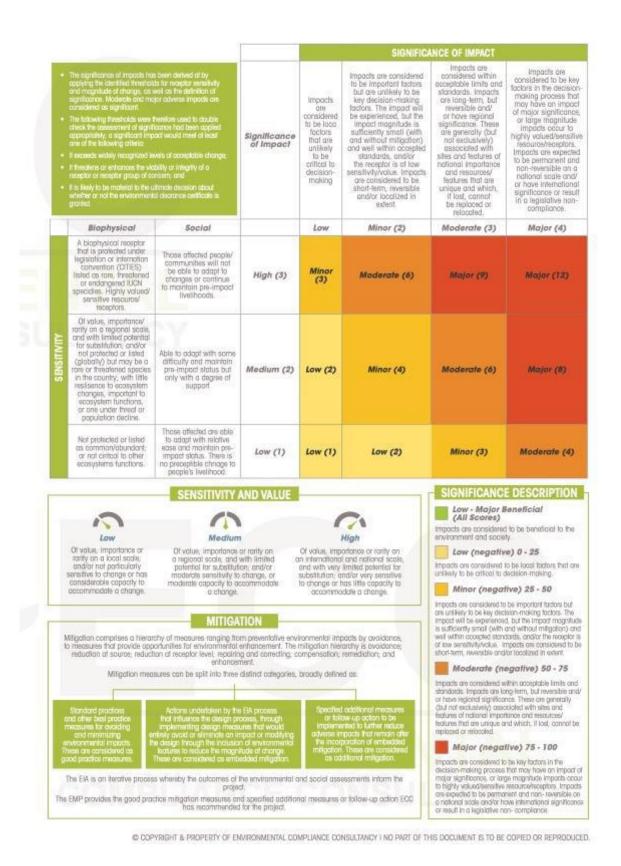


Figure 10 - ECC ESIA methodology based on IFC standard.



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### 6.2 Assessment guidance

- 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. 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.

The impact assessment process also acknowledged the presence of uncertainties, and assumptions were made based on realistic worst-case scenarios to ensure that potential environmental impacts were identified and assessed comprehensively. These assumptions and uncertainties were identified and documented during the assessment process shown in Table 7, in line with best practice.

A cautious approach was applied where uncertainties existed, allowing for the identification and assessment of potential impacts based on worst-case scenarios. The limitations and uncertainties were acknowledged and described in the baseline section of the assessment, indicating transparency and awareness of potential limitations in the methodology.

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



Table 7 - Limitations, uncertainties and assumptions

LIMITATION / UNCERTAINTY	ASSUMPTION
Number of access roads and temporary drill campsites	The making of new tracks or access roads will be avoided, and existing tracks and routes will be used as far as possible. While every effort will be made to minimise environmental damage, in some cases it will be necessary to clear some vegetation. Temporary campsites near the drill sites may be required.
The program of exploration works is not confirmed	It is assumed that exploration work shall be undertaken in campaigns over the course of the license period. Activities involve drilling; aerial or remote sensing; geophysical surveys; and mineral sampling. Pitting and trenching are not considered for this project and is unlikely and generally not favoured.
Number of workers, area they will come from and accommodation	It is planned that approximately ten people will be contracted for the proposed project. Contractors will camp near the exploration sites.
Structures	No permanent infrastructure will be developed during any phase of project activities during the 3-year mineral license period.



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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. The design of the proposed project and best practice measures were considered during the assessment to identify likely significant impacts and recommend mitigation measures. A summary list of potential impacts was provided, including water (surface and groundwater), soil, landscape (visual impacts, sense of place), socio-economics (employment, demographics, and land-use), noise, ecology (fauna and flora), air quality (emissions, pollutants, and dust), and heritage (including culture, history, archaeology, and palaeontology).

Table 8 outlines the findings of the impact assessment, identifying the activities that could be the source of impacts, the receptors that could be affected, and the pathways between them. Where activities or receptors have not been identified and analysed, potential impacts are deemed unlikely, and no assessment or justification is provided. Justification for further assessment may or may not be required where the activity, receptor, and pathway have been identified and analysed.

The nature and localised scale of the exploration activities, as well as the environmental context of the EPL, are expected to limit the potential environmental and social effects, should they occur. However, uncertainties related to potential increase in movements and presence of people, which may lead to illegal and covert activities such as poaching, stock theft, and collection of organisms, were identified. Accidental veld fires may also increase with the presence of contractor personnel, potentially affecting terrestrial ecology and biodiversity in Namibia, as well as local landowners and their neighbours. Mitigation measures are recommended and provided in Table 8 to address these potential impacts.

Cumulative impacts resulting from physical disturbance, noise, dust, and loss of sense of place may be experienced by farm owners, neighbours, visitors, and tourists. Mitigation measures are recommended and provided in Table 8 to address these impacts. Precautions must also be taken to prevent damage to heritage sites, and a chance find procedure will be implemented if paleontological remains are discovered during exploration activities. With the necessary mitigation measures in place, the significance of the impact reduces from moderate to minor, as outlined in the report.

It is important to ensure that the recommended mitigation measures are effectively implemented and monitored during project implementation to minimise potential impacts and ensure compliance with environmental regulations and best practices. Regular monitoring and review of the impacts and effectiveness of mitigation measures should also be conducted throughout the project lifecycle to address any emerging issues and make necessary adjustments to the mitigation measures as needed.



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All necessary precautions should be taken to prevent damage to heritage sites in case paleontological remains are discovered during exploration activities. The chance find procedure, as outlined in the report, should be implemented in such cases. With the recommended mitigation measures in place (as provided in Table 8), the significance of the impact is expected to reduce from moderate to minor.

It is important to ensure that the chance find procedure is followed diligently to prevent any harm to the discovered heritage sites. This may include halting or modifying the exploration activities in the vicinity of the site, conducting further assessments to determine the extent and significance of the paleontological remains, and implementing appropriate mitigation measures to protect and preserve the heritage site.

Regular monitoring and review of the chance find procedure and effectiveness of the mitigation measures should be conducted throughout the project implementation to address any emerging issues and ensure compliance with relevant regulations and best practices. Any updates or changes to the chance find procedure or mitigation measures should be documented and communicated to relevant stakeholders as needed.

Furthermore, it is important to involve relevant experts, such as paleontologists or archaeologists, in the implementation of the chance find procedure and in assessing the significance of the paleontological remains. Their expertise can help ensure that appropriate measures are taken to protect and preserve the heritage sites and their findings.

Overall, the report should provide clear and comprehensive information on the chance find procedure, mitigation measures, and the expected reduction of impact significance from moderate to minor, based on the implementation of these measures. It should also highlight the importance of diligent adherence to the chance find procedure and regular monitoring and review of the mitigation measures to minimise potential impacts on heritage sites during the exploration activities.



Table 8 - Scoping assessment findings and proposed mitigation measures

Size operations such as maintenance activities, loss of containment, accidental fuel / hydraulic fluid leaks and spills, or similar sources. Hydrocarbon leaks and spills could enter the aquifer causing contamination    Assessment of impact   Hydrocarbon leaks and spills could enter the aquifer causing contamination	Description	Details	
Description of impact	Aspect	Water	
Assessment of impact   Receptor   Groundwater quality	<b>Description of activity</b>	Site operations such as maintenance activities, loss of containment,	
Assessment of impact    Receptor		accidental fuel / hydraulic fluid le	aks and spills, or similar sources.
Receptor   Groundwater quality	Description of impact	Hydrocarbon leaks and spills	could enter the aquifer causing
Effect/description of magnitude		contamination	
magnitude	Assessment of impact	•	Groundwater quality
Partly Reversible Moderate Short term Regional Possible  Value of sensitivity Medium  Magnitude of change Significance of impact prior to mitigation  - Good housekeeping - Training through toolbox talks and induction - All stationary vehicles and machinery must have drip trays to collect leakages of lubricants and oil - Spill kits and absorption material available during fuel delivery, storage or use - Accidental spills and leaks (including absorption material) to be cleaned as soon as possible - Major spills (significant release of chemicals or materials that pose a major health and safety risk to persons or damage to the environment that requires outside assistance to clean up) to be reported, also to the authorities - Maintenance and service schedules on equipment is in place - Store bulk fuel (200L or more) in adequate containment areas (non-porous surface, bunded) and discard damaged containers - Refuelling will be done in areas with adequate preventative measures in place - Servicing of equipment must not be done in the field		•	
Moderate   Short term   Regional   Possible		magnitude	
Short term   Regional   Possible			_
Regional Possible			
Possible   Value of sensitivity   Medium   Magnitude of change   Minor   Significance of impact prior to mitigation   - Good housekeeping   - Training through toolbox talks and induction   - All stationary vehicles and machinery must have drip trays to collect leakages of lubricants and oil   - Spill kits and absorption material available during fuel delivery, storage or use   - Accidental spills and leaks (including absorption material) to be cleaned as soon as possible   - Major spills (significant release of chemicals or materials that pose a major health and safety risk to persons or damage to the environment that requires outside assistance to clean up) to be reported, also to the authorities   - Maintenance and service schedules on equipment is in place   - Store bulk fuel (200L or more) in adequate containment areas (non-porous surface, bunded) and discard damaged containers   - Refuelling will be done in areas with adequate preventative measures in place   - Servicing of equipment must not be done in the field			
Value of sensitivity   Medium			_
Magnitude of change   Minor			
Significance of impact prior to mitigation			
Impact management/control measures  - Good housekeeping - Training through toolbox talks and induction - All stationary vehicles and machinery must have drip trays to collect leakages of lubricants and oil - Spill kits and absorption material available during fuel delivery, storage or use - Accidental spills and leaks (including absorption material) to be cleaned as soon as possible - Major spills (significant release of chemicals or materials that pose a major health and safety risk to persons or damage to the environment that requires outside assistance to clean up) to be reported, also to the authorities - Maintenance and service schedules on equipment is in place - Store bulk fuel (200L or more) in adequate containment areas (non-porous surface, bunded) and discard damaged containers - Refuelling will be done in areas with adequate preventative measures in place - Servicing of equipment must not be done in the field			
Good housekeeping			Minor (4)
management/control measures  - Training through toolbox talks and induction - All stationary vehicles and machinery must have drip trays to collect leakages of lubricants and oil - Spill kits and absorption material available during fuel delivery, storage or use - Accidental spills and leaks (including absorption material) to be cleaned as soon as possible - Major spills (significant release of chemicals or materials that pose a major health and safety risk to persons or damage to the environment that requires outside assistance to clean up) to be reported, also to the authorities - Maintenance and service schedules on equipment is in place - Store bulk fuel (200L or more) in adequate containment areas (non-porous surface, bunded) and discard damaged containers - Refuelling will be done in areas with adequate preventative measures in place - Servicing of equipment must not be done in the field		_	
- All stationary vehicles and machinery must have drip trays to collect leakages of lubricants and oil - Spill kits and absorption material available during fuel delivery, storage or use - Accidental spills and leaks (including absorption material) to be cleaned as soon as possible - Major spills (significant release of chemicals or materials that pose a major health and safety risk to persons or damage to the environment that requires outside assistance to clean up) to be reported, also to the authorities - Maintenance and service schedules on equipment is in place - Store bulk fuel (200L or more) in adequate containment areas (non-porous surface, bunded) and discard damaged containers - Refuelling will be done in areas with adequate preventative measures in place - Servicing of equipment must not be done in the field	•	' "	
collect leakages of lubricants and oil  - Spill kits and absorption material available during fuel delivery, storage or use  - Accidental spills and leaks (including absorption material) to be cleaned as soon as possible  - Major spills (significant release of chemicals or materials that pose a major health and safety risk to persons or damage to the environment that requires outside assistance to clean up) to be reported, also to the authorities  - Maintenance and service schedules on equipment is in place  - Store bulk fuel (200L or more) in adequate containment areas (non-porous surface, bunded) and discard damaged containers  - Refuelling will be done in areas with adequate preventative measures in place  - Servicing of equipment must not be done in the field			
<ul> <li>Spill kits and absorption material available during fuel delivery, storage or use</li> <li>Accidental spills and leaks (including absorption material) to be cleaned as soon as possible</li> <li>Major spills (significant release of chemicals or materials that pose a major health and safety risk to persons or damage to the environment that requires outside assistance to clean up) to be reported, also to the authorities</li> <li>Maintenance and service schedules on equipment is in place</li> <li>Store bulk fuel (200L or more) in adequate containment areas (non-porous surface, bunded) and discard damaged containers</li> <li>Refuelling will be done in areas with adequate preventative measures in place</li> <li>Servicing of equipment must not be done in the field</li> </ul>	measures	_	
storage or use  - Accidental spills and leaks (including absorption material) to be cleaned as soon as possible  - Major spills (significant release of chemicals or materials that pose a major health and safety risk to persons or damage to the environment that requires outside assistance to clean up) to be reported, also to the authorities  - Maintenance and service schedules on equipment is in place  - Store bulk fuel (200L or more) in adequate containment areas (non-porous surface, bunded) and discard damaged containers  - Refuelling will be done in areas with adequate preventative measures in place  - Servicing of equipment must not be done in the field		_	
<ul> <li>Accidental spills and leaks (including absorption material) to be cleaned as soon as possible</li> <li>Major spills (significant release of chemicals or materials that pose a major health and safety risk to persons or damage to the environment that requires outside assistance to clean up) to be reported, also to the authorities</li> <li>Maintenance and service schedules on equipment is in place</li> <li>Store bulk fuel (200L or more) in adequate containment areas (non-porous surface, bunded) and discard damaged containers</li> <li>Refuelling will be done in areas with adequate preventative measures in place</li> <li>Servicing of equipment must not be done in the field</li> </ul>			
cleaned as soon as possible  - Major spills (significant release of chemicals or materials that pose a major health and safety risk to persons or damage to the environment that requires outside assistance to clean up) to be reported, also to the authorities  - Maintenance and service schedules on equipment is in place  - Store bulk fuel (200L or more) in adequate containment areas (non-porous surface, bunded) and discard damaged containers  - Refuelling will be done in areas with adequate preventative measures in place  - Servicing of equipment must not be done in the field			ncluding absorption material) to be
<ul> <li>Major spills (significant release of chemicals or materials that pose a major health and safety risk to persons or damage to the environment that requires outside assistance to clean up) to be reported, also to the authorities</li> <li>Maintenance and service schedules on equipment is in place</li> <li>Store bulk fuel (200L or more) in adequate containment areas (non-porous surface, bunded) and discard damaged containers</li> <li>Refuelling will be done in areas with adequate preventative measures in place</li> <li>Servicing of equipment must not be done in the field</li> </ul>		'	,
pose a major health and safety risk to persons or damage to the environment that requires outside assistance to clean up) to be reported, also to the authorities  - Maintenance and service schedules on equipment is in place  - Store bulk fuel (200L or more) in adequate containment areas (non-porous surface, bunded) and discard damaged containers  - Refuelling will be done in areas with adequate preventative measures in place  - Servicing of equipment must not be done in the field		- Major spills (significant relea	ase of chemicals or materials that
reported, also to the authorities  - Maintenance and service schedules on equipment is in place  - Store bulk fuel (200L or more) in adequate containment areas (non-porous surface, bunded) and discard damaged containers  - Refuelling will be done in areas with adequate preventative measures in place  - Servicing of equipment must not be done in the field		pose a major health and safe	ty risk to persons or damage to the
<ul> <li>Maintenance and service schedules on equipment is in place</li> <li>Store bulk fuel (200L or more) in adequate containment areas (non-porous surface, bunded) and discard damaged containers</li> <li>Refuelling will be done in areas with adequate preventative measures in place</li> <li>Servicing of equipment must not be done in the field</li> </ul>		environment that requires or	utside assistance to clean up) to be
<ul> <li>Store bulk fuel (200L or more) in adequate containment areas (non-porous surface, bunded) and discard damaged containers</li> <li>Refuelling will be done in areas with adequate preventative measures in place</li> <li>Servicing of equipment must not be done in the field</li> </ul>		reported, also to the authorit	ies
<ul> <li>(non-porous surface, bunded) and discard damaged containers</li> <li>Refuelling will be done in areas with adequate preventative measures in place</li> <li>Servicing of equipment must not be done in the field</li> </ul>		- Maintenance and service sch	edules on equipment is in place
<ul> <li>Refuelling will be done in areas with adequate preventative measures in place</li> <li>Servicing of equipment must not be done in the field</li> </ul>		- Store bulk fuel (200L or moi	re) in adequate containment areas
measures in place  - Servicing of equipment must not be done in the field		(non-porous surface, bunded	) and discard damaged containers
- Servicing of equipment must not be done in the field		- Refuelling will be done in	areas with adequate preventative
		measures in place	
Residual impact after Low (2)		- Servicing of equipment must	not be done in the field
	Residual impact after	Low (2)	
mitigation			



Description	Details	
Aspect	Water	
<b>Description of activity</b>	Potential spillages of drill fluid, lubrication, etc. or drilling that	
	penetrate the groundwater table.	
Description of impact	Hydrocarbon leaks and spills	could enter the aquifer causing
	contamination	
Assessment of impact	Receptor	Groundwater quality
	Effect/description of	Adverse
	magnitude	Indirect
		Partly Reversible
		Minor
		Short term
		Local
		Possible
	Value of sensitivity	Low
	Magnitude of change	Minor
	Significance of impact prior to	Low (2)
	mitigation	
Impact	- Ensure spill kits and preventa	tive measures (e.g., drill pads) are in
management/control	place at exploration sites	
measures	- RC drilling does not use dri	ll fluids and therefore this risk is
	significantly reduced.	
	<ul> <li>If diamond drilling is used SO</li> </ul>	P will be in place for managing drill
	fluids and water prior to drilling – this will be signed off by the	
	client prior to use.	
Residual impact after	Low (1)	
mitigation		



Description	Details	
Aspect	Water – surface and groundwater	
Description of activity	Discharge and infiltration of non-contained wastewater.	
Description of impact	Wastewater can contaminate sur	face and groundwater.
Assessment of impact	Receptor	Surface and ground water
	Effect/description of	Adverse
	magnitude	Direct
		Partly Reversible
		Minor
		Short term
		Regional
		Unlikely
	Value of sensitivity Low	
	Magnitude of change	Minor
	Significance of impact prior Low (2)	
	to mitigation	
Impact	- All wastewater discharges must be contained, and if possible	
management/control	recycled in the drilling proces	SS
measures	– Unrecyclable wastewater mu	st be removed from site and taken
	to site where discharge of wa	astewater is permitted.
	- Workers will be made aware	of the importance of wastewater
	management	
	- Good housekeeping	
	– Ensure prompt clean-up of sរុ	pills
	- Contaminated soils should be	e remediated off-site
Residual impact after	Low (1)	
mitigation		



Description	Details	
Aspect	Water – surface water	
Description of activity	Inadequate management of solid waste.	
Description of impact	Waste items and litter can pollute	drainage channels.
Assessment of impact	Receptor	Surface and ground water
	Effect/description of	Adverse
	magnitude	Cumulative
		Reversible
		Minor
		Temporary
		On-site
		Unlikely
	Value of sensitivity	Low
	Magnitude of change	Low
	Significance of impact prior to	Low (1)
	mitigation	
Impact	- Good housekeeping	
management/control	<ul> <li>Training and awareness through</li> </ul>	gh toolbox-talks and induction
measures	– Implement a Standard Opera	ational Procedure (SOP) on waste
	management, for all kinds	of waste possible on-site (e.g.,
	domestic, mineral, hydrocarbo	ons, hazardous)
	– Avoid hazardous waste on site	2
	– Implement a culture of correct waste collection, waste	
	segregation and waste disposa	al
Residual impact after	Low (1)	
mitigation		



Description	Details	
Aspect	Soil-impacts	
<b>Description of activity</b>	Inadequate management of hazardous and hydrocarbon waste.	
Description of impact	Pollution of soil.	
Assessment of impact	Receptor	Soil
	Effect/description of	Adverse
	magnitude	Direct
		Reversible
		Minor
		Short term
		On-site
		Possible
	Value of sensitivity	Low
	Magnitude of change	Minor
	Significance of impact prior to	Low (2)
	mitigation	
Impact	- Good housekeeping	
management/control	<ul> <li>Training and awareness through</li> </ul>	gh toolbox-talks and induction
measures	– Implement a Standard Opera	ational Procedure (SOP) on waste
	management, for all kinds	of waste possible on-site (e.g.,
	domestic, mineral, hydrocarbo	ons, hazardous)
	– Avoid hazardous waste on site	
	– Implement a culture of correct waste collection, waste	
	segregation and waste disposa	al
Residual impact after	Low (1)	
mitigation		



Description	Details	
Aspect	Terrestrial ecology and biodiversity	
<b>Description of activity</b>	Vegetation clearing for access routes, drill pads and temporary	
	contractor's camp.	
Description of impact	Loss / alteration of terrestrial hab	itats and loss of species
Assessment of impact	Receptor	Terrestrial ecology and
		biodiversity
	Effect/description of	Adverse
	magnitude	Direct
		Reversible
		Minor
		Short term
		On-site
	Possible	
	Value of sensitivity	Low
	Magnitude of change	Minor
	Significance of impact prior to	Low (2)
	mitigation	
Impact	- Restrict excessive noise to are	as of activities only
management/control	<ul> <li>Restrict excessive noise to day</li> </ul>	time hours (7 am to 5 pm weekdays
measures	and 7 am until 1 pm on Saturo	• •
	– No activities between dusk and	
	' '	bly positioned to ensure that noisy
	equipment is away from recep	
	Maintain and carry out routing	
	·	or throttled back between periods
	of use,	
	- Respect civil aviation regulatio	ns about the use of drones
Residual impact after	Low (1)	
mitigation		



Description	Details	
Aspect	Terrestrial ecology and biodiversity	
Description of activity	Ambient noise as a result of machinery and equipment-use and movement (e.g., drill rigs, generators, vehicles) and movement (also through the use of airborne equipment).	
<b>Description of impact</b>	Residing, slow-moving and nesting	g organisms can be disturbed.
Assessment of impact	Receptor Terrestrial ecology and biodiversity	
	Effect/description of	Adverse
	magnitude	Direct
		Reversible
		Minor
		Short term
		On-site
		Likely
	Value of sensitivity	Low
	Magnitude of change	Minor
	Significance of impact prior to	Low (2)
	mitigation	
Impact	- Restrict excessive noise to are	as of activities only
management/control	<ul> <li>Restrict excessive noise to day</li> </ul>	•
measures	weekdays and 7 am until 1 pm	
	– No activities between dusk and	
	, ,	ply positioned to ensure that noisy
	equipment is away from recep	
	- All equipment to be shut dowr	n or throttled back between
	periods of use,	
Dogidual impact often	- Respect civic aviation regulations about the use of a drone	
Residual impact after mitigation	Low (1)	



Description	Details	
Aspect	Terrestrial ecology and biodiversity	
<b>Description of activity</b>	Increased movement of vehicles, i	machinery and equipment.
Description of impact	Residing and nesting organisms such as reptiles can be disturbed, injured or killed.	
Assessment of impact	Receptor Terrestrial ecology and biodiversity	
	Effect/description of	Adverse
	magnitude	Direct
		Partly reversible
		Moderate
		Short term
		On-site
		Possible
	Value of sensitivity	Low
	Magnitude of change	Minor
	Significance of impact prior to	Low (2)
	mitigation	
Impact	- Restrict movements to areas of	of activities only
management/control	<ul> <li>Use existing tracks and routes</li> </ul>	only
measures	<ul> <li>Identify rare, endangered, thr advance</li> </ul>	reatened and protected species in
	- Route new tracks around prot	ected species and sensitive areas
	- Restrict movements to daytim	•
		ess routes (into the bush) / off-road
	driving	iss reaces (into the sasily, on read
		collected, caught, consumed, or
	removed from site	conceted, edugiit, consumed, or
Residual impact after	Low (1)	
mitigation		



Description	Details	
Aspect	Terrestrial ecology and biodiversity	
<b>Description of activity</b>	Increased disturbance of areas with natural vegetation.	
<b>Description of impact</b>	Alien species and weeds can be in	troduced to the area.
Assessment of impact	Receptor Terrestrial ecology and biodiversity	
	Effect/description of	Adverse
	magnitude	Direct
		Reversible
		Minor
		Short term
		On-site
		Possible
	Value of sensitivity	Low
	Magnitude of change	Minor
	Significance of impact prior to mitigation	Low (2)
Impact management/control measures	<ul> <li>All project equipment arriving on site from an area outside of the project or coming from an area of known weed infestations (not present on the project site) should have an internal weed and seed inspection completed prior to equipment being used</li> <li>Monitor areas of activity for weed and alien species</li> <li>Eradicate weeds and alien species as soon as they appear</li> <li>Make workers aware about alien species and weeds</li> </ul>	
Residual impact after mitigation	Low (1)	



Description	Details	
Aspect	Terrestrial ecology and biodiversity	
<b>Description of activity</b>	Accidental and controlled fire	
<b>Description of impact</b>	Increased exposure due to possible vegetation clearance can cause	
	soil erosion.	
Assessment of impact	Receptor	Terrestrial ecology and
		biodiversity
	Effect/description of	Adverse
	magnitude	Direct
		Partly Reversible
		Low
		Short-Term
		Local
	Unlikely	
	Value of sensitivity	High
	Magnitude of change	Negligible
	Significance of impact prior to	Minor (3)
	mitigation	
Impact	<ul> <li>Train people and raise awaren</li> </ul>	ess about veld fires and firefighting
management/control	- No open fires outside desig	gnated areas are allowed in the
measures	National Park	
	<ul> <li>Ensure proper cooking facilitie</li> </ul>	es at the contractor's campsite
		be discarded but contained and
	disposed of at an appropriate	
	, , , , , , , , , , , , , , , , , , , ,	n signage to be placed in areas that
	·	,
		hydrocarbons and gas bottles)
	· ·	itial risk of fire by segregating and
	storing materials safely	
	<ul> <li>Avoid potential sources of igni</li> </ul>	ition by prohibiting smoking in and
	around certain facilities	
	   - Firefighting equipment should	always be at designated areas and
	should be maintained and che	,
Residual impact after	Low (2)	-0 )
mitigation	2011 (2)	
initigation		



Description	Details	
Aspect	Soil	
<b>Description of activity</b>	Drilling and the use of drilling equipment.	
Description of impact	Loss of soil quality due to mixing of earth matter, trampling and compaction.	
Assessment of impact	Receptor	Soil
	Effect/description of	Adverse
	magnitude	Direct
		Reversible
		Moderate
		Short term
		On-site
		Possible
	Value of sensitivity	Low
	Magnitude of change	Minor
	Significance of impact prior to	Low (2)
	mitigation	
Impact management/control measures	<ul> <li>Ensure erosion control and prevention measures are in place when vegetation clearance is required</li> <li>Where necessary, plan access routes, drill pads and camps outside of existing drainage lines</li> <li>Where necessary, install diversions to curb possible erosion</li> </ul>	
Residual impact after	- Restore drainage lines when disturbed	
mitigation	Low (1)	



Aspect	Description	Details	
Airborne surveying over the EPL, possible low flying			
Perceived impact from surveying activities on livestock and humans  Receptor Effect/description of magnitude  Reversible Minor Temporary Local Unlikely  Value of sensitivity Magnitude of change Significance of impact prior to mitigation  Impact management/control measures  Prior to conducting aerial surveying, both directly and indirectly affected parties should be informed in writing of exploration activities at least 2 weeks prior to conducting the aerial surveys.  The following information is to be included in the writter communication sent:  Company name, Survey dates, time and duration, Purpose of the survey, Flight altitude, Survey location, Map of survey area and flight lines, and Contact details for enquiries.  Compliance with all applicable laws and agreements Maintain continuous engagement with residents to identify any concerns or issues, and appropriate mitigation and management measures agreed upon Ensure appropriate supervision of all activities Restrict surveying activities to daytime hours (7 am to 5 pm		Airborne surveying over the EPL, p	oossible low flying
Receptor   Roise and vibrations			
indirect Reversible Minor Temporary Local Unlikely  Value of sensitivity Magnitude of change Significance of impact prior to mitigation  - Prior to conducting aerial surveying, both directly and indirectly affected parties should be informed in writing of exploration activities at least 2 weeks prior to conducting the aerial surveys.  - The following information is to be included in the writter communication sent:  - Company name,  - Survey dates, time and duration,  - Purpose of the survey,  - Flight altitude,  - Survey location, Map of survey area and flight lines, and  - Contact details for enquiries.  - Compliance with all applicable laws and agreements  - Maintain continuous engagement with residents to identify any concerns or issues, and appropriate mitigation and management measures agreed upon  - Ensure appropriate supervision of all activities  - Restrict surveying activities to daytime hours (7 am to 5 pm		j	
Reversible Minor Temporary Local Unlikely  Value of sensitivity		Effect/description of	Adverse
Minor Temporary Local Unlikely  Value of sensitivity  Magnitude of change Significance of impact prior to mitigation  Prior to conducting aerial surveying, both directly and indirectly affected parties should be informed in writing of exploration activities at least 2 weeks prior to conducting the aerial surveys.  The following information is to be included in the writter communication sent:  Company name, Survey dates, time and duration, Purpose of the survey, Flight altitude, Survey location, Map of survey area and flight lines, and Contact details for enquiries.  Compliance with all applicable laws and agreements Maintain continuous engagement with residents to identify any concerns or issues, and appropriate mitigation and management measures agreed upon Ensure appropriate supervision of all activities Restrict surveying activities to daytime hours (7 am to 5 pm		magnitude	indirect
Temporary Local Unlikely  Value of sensitivity Low  Magnitude of change Significance of impact prior to mitigation  - Prior to conducting aerial surveying, both directly and indirectly affected parties should be informed in writing of exploration activities at least 2 weeks prior to conducting the aerial surveys.  - The following information is to be included in the writter communication sent:  > Company name,  > Survey dates, time and duration,  > Purpose of the survey,  > Flight altitude,  > Survey location, Map of survey area and flight lines, and  > Contact details for enquiries.  - Compliance with all applicable laws and agreements  - Maintain continuous engagement with residents to identify any concerns or issues, and appropriate mitigation and management measures agreed upon  - Ensure appropriate supervision of all activities  - Restrict surveying activities to daytime hours (7 am to 5 pm			Reversible
Local Unlikely			Minor
Value of sensitivity			Temporary
Value of sensitivity			Local
Magnitude of change   Minor			Unlikely
Significance of impact prior to mitigation		Value of sensitivity	Low
Impact management/control measures  - Prior to conducting aerial surveying, both directly and indirectly affected parties should be informed in writing of exploration activities at least 2 weeks prior to conducting the aerial surveys.  - The following information is to be included in the written communication sent:  - Company name,  - Survey dates, time and duration,  - Purpose of the survey,  - Flight altitude,  - Survey location, Map of survey area and flight lines, and  - Contact details for enquiries.  - Compliance with all applicable laws and agreements  - Maintain continuous engagement with residents to identify any concerns or issues, and appropriate mitigation and management measures agreed upon  - Ensure appropriate supervision of all activities  - Restrict surveying activities to daytime hours (7 am to 5 pm			Minor
management/control measures  - Prior to conducting aerial surveying, both directly and indirectly affected parties should be informed in writing of exploration activities at least 2 weeks prior to conducting the aerial surveys.  - The following information is to be included in the writter communication sent:  → Company name,  → Survey dates, time and duration,  → Purpose of the survey,  → Flight altitude,  → Survey location, Map of survey area and flight lines, and  → Contact details for enquiries.  - Compliance with all applicable laws and agreements  - Maintain continuous engagement with residents to identify any concerns or issues, and appropriate mitigation and management measures agreed upon  - Ensure appropriate supervision of all activities  - Restrict surveying activities to daytime hours (7 am to 5 pm			Low (2)
measures  affected parties should be informed in writing of exploration activities at least 2 weeks prior to conducting the aerial surveys.  The following information is to be included in the writter communication sent:  Company name,  Survey dates, time and duration,  Purpose of the survey,  Flight altitude,  Survey location, Map of survey area and flight lines, and  Contact details for enquiries.  Compliance with all applicable laws and agreements  Maintain continuous engagement with residents to identify any concerns or issues, and appropriate mitigation and management measures agreed upon  Ensure appropriate supervision of all activities  Restrict surveying activities to daytime hours (7 am to 5 pm			
communication sent:  Company name,  Survey dates, time and duration,  Purpose of the survey,  Flight altitude,  Survey location, Map of survey area and flight lines, and  Contact details for enquiries.  Compliance with all applicable laws and agreements  Maintain continuous engagement with residents to identify any concerns or issues, and appropriate mitigation and management measures agreed upon  Ensure appropriate supervision of all activities  Restrict surveying activities to daytime hours (7 am to 5 pm	management/control	affected parties should be informed in writing of exploration activities at least 2 weeks prior to conducting the aerial surveys.  The following information is to be included in the written communication sent:  Company name,  Survey dates, time and duration,  Purpose of the survey,  Flight altitude,  Survey location, Map of survey area and flight lines, and  Contact details for enquiries.  Compliance with all applicable laws and agreements  Maintain continuous engagement with residents to identify any concerns or issues, and appropriate mitigation and management measures agreed upon  Ensure appropriate supervision of all activities  Restrict surveying activities to daytime hours (7 am to 5 pm	
weekdays and 7 am until 1 pm on Saturday)			
Residual impact after Low (1)	Residual impact after	Low (1)	
mitigation	•		



Description	Details		
Aspect	Heritage		
Description of activity	Drilling activities, movement of machinery and vehicles.		
Description of impact	Potential damage to cultural her	itage sites.	
Assessment of impact	Receptor Heritage		
	Effect/description of	Adverse	
	magnitude	Direct	
		Partly Reversible	
		High	
		Permanent	
		On-site	
		Possible	
	Value of sensitivity	High	
	Magnitude of change	Minor	
	Significance of impact prior	Moderate (6)	
	to mitigation		
Impact	- Implement a Chance Find Pro		
management/control	- Raise awareness about possible heritage finds		
measures	<ul> <li>Report all finds that could be</li> </ul>		
	- In case archaeological remains to be uncovered, cease activities		
	and the site manager has to assess and demarcate the area		
	- Project manager to visit the site and determine whether work		
	can proceed without damage to findings, mark exclusions boundary and inform ECC with GPS position		
	- If needed, further investigation has to be requested for a		
	professional assessment and the necessary protocols of the		
	Chance Find Procedure have to be followed,		
	- Archaeologist will evaluate the significance of the remains and		
	identify appropriate action, (record and remove; relocate or		
	leave premises, depending on the nature and value of the		
	remains),		
	- Inform the police if the remains are human,		
	- Obtain appropriate clearance or approval from the competent		
	authority, if required, and recover and remove the remains to		
	the National Museum or National Forensic Laboratory as		
	directed.		
Residual impact after	Minor (4)		
mitigation			



Description	Details		
Aspect	Community		
Description of activity	<ul> <li>Drilling activities, resulting into dust emissions</li> <li>Windblown dust from exposed/cleared land during exploration activities</li> </ul>		
Description of impact	Visual disturbance and loss of sense of place.		
Assessment of impact	Receptor	Air quality and visual impact	
	Effect/description of	Adverse	
	magnitude	Direct	
		Reversible	
		Moderate	
		Temporary	
		Local	
		Likely	
	Value of sensitivity	High	
	Magnitude of change	Minor	
	Significance of impact prior to mitigation	Moderate (6)	
Impact	-	ro possible	
management/control	<ul><li>Apply dust suppression where possible</li><li>Restrict speed of vehicles (&lt;30km/h)</li></ul>		
measures	'		
	<ul> <li>Specific activities that may generate dust and impact on residents shall be avoided during high wind events</li> </ul>		
	<ul> <li>All vehicles and machinery / equipment to be shut down or throttled back between periods of use</li> <li>Barriers or fences shall be used if drilling occurs in locations that</li> </ul>		
	may affect residents or livestock  - Residents need to be informed at least two weeks in advan		
that drilling operations are within 1		vithin 1km of their property	
	<ul> <li>Maintain good housekeeping</li> </ul>	<ul> <li>Maintain good housekeeping</li> </ul>	
	<ul> <li>Continuous engagement witl</li> </ul>	h residents to identify any	
	concerns or issues, and appropriate mitigation and		
	management measures agreed upon		
Residual impact after	Minor (4)		
mitigation			



Description	Details		
Aspect	Community		
<b>Description of activity</b>	Movement of vehicles, exploration activities		
Description of impact	Presence of exploration team can be blamed for stock theft and poaching.		
Assessment of impact	Receptor Community		
	Effect/description of	Adverse	
	magnitude	Cumulative	
		Reversible	
		Minor	
		Temporary	
		Local	
		Unlikely	
	Value of sensitivity	Low	
	Magnitude of change	Low	
	Significance of impact prior to	Low (1)	
	mitigation		
Impact	<ul> <li>Develop and implement an operation manual or procedures to</li> </ul>		
management/control	work on farmlands and impler	ment monitoring programmes	
measures	thereafter		
	Maintain continuous engagement with residents to identify any		
	concerns or issues, and appropriate mitigation and		
	management measures agreed upon		
	Ensure appropriate supervision of all activities		
	Raise awareness and sensitize employees about contentious		
	issues such as stock theft and poaching		
	Accidents and incidents need to be reported to the project  manager and recorded in the incident register.		
Posidual impact after	manager and recorded in the incident register		
Residual impact after	Low (1)		
mitigation			



Description	Details	
Aspect	Community	
<b>Description of activity</b>	Exploration activities	
Description of impact	Triggers job creation, skills development, and opportunities for the	
	local economy.	
Assessment of impact	Receptor Community	
	Effect/description of	Beneficial
	magnitude	Direct
		Reversible
		Minor
		Short term
		Local
		Possible
	Value of sensitivity	Low
	Magnitude of change	Low
	Significance of impact prior to	Low (2)
	mitigation	
Impact	As far as possible promote local procurement	
management/control	Enhance the development of local skills where possible	
measures		
Residual impact after	Low Beneficial	
mitigation		



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### 8 ENVIRONMENTAL MANAGEMENT PLAN

The preliminary EMP for the proposed project is presented in Appendix A. It provides management options to ensure the impacts of the proposed project are minimised. An EMP is a tool used to take pro-active action by addressing potential problems before they occur. This should limit the corrective measures needed, although additional mitigation measures might be included if necessary.

The management measures should be adhered to during all stages of the exploration activities. All persons involved and partaking in the proposed activities should be made aware of the measures outlined in the EMP to ensure activities are conducted in an environmentally responsible manner.

The objectives of the EMP are:

- To include all components of the development and operations of the project;
- To prescribe the best practicable control methods to lessen the environmental impacts associated with the project;
- To monitor and audit the performance of operational personnel in applying such controls; and
- To ensure that appropriate environmental training is provided to responsible operational personnel.



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### 9 CONCLUSION

ECC's impact assessment methodology was used to conduct the environmental and social impact assessment for the proposed exploration activities on EPL 8795. This scoping report identified several potentially significant impacts that could arise from the proposed project.

Through the scoping process, it was determined that the only risk to the environment is related to cumulative impacts resulting from physical disturbance and noise nuisance. Impacts related to airborne dust are expected to be limited to vehicular traffic and drilling activities, and these impacts will be localised and short-lived. There will also be some release of exhaust fumes from machinery, which may impact the immediate vicinity, but this will be of short duration. Additionally, drilling and machinery noise could be a disturbance to neighbouring farmers, but this will also be of short duration. The analysis of potential impacts and development of mitigation and management methods led to the conclusion that the likely significance of effects on humans from the cumulative impacts of physical disturbance, noise, dust, and emissions will be temporary and result in a qualitative reduction in the sense of place. As such, these impacts are designated as having minor significance after mitigations are implemented.

Due to increased movements and presence of people, there is a potential threat of illegal and covert activities such as poaching and collection of organisms. Through this investigation, the significance of both impacts is indicated as moderate. However, numerous mitigation measures with proven national success exist for both impacts, which reduce their significance to minor.

Heritage sites may exist around the EPL, and all precautions will be taken to prevent damage to heritage sites due to the exploration activities. The chance find procedure will be implemented in such cases, and with the necessary mitigation measures in place, the significance of impacts reduces from moderate to minor.

All other social and environmental receptors that were scoped out as potentially significant impacts were deemed unlikely, and therefore, no further assessment was considered necessary. Various best practices and mitigation measures have been identified to avoid and reduce effects as far as reasonably practical. This will ensure that the environment is protected, and unforeseen effects and environmental disturbances are avoided.



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### **APPENDIX A - ENVIRONMENTAL MANAGEMENT PLAN**

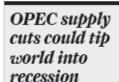


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### **APPENDIX B - BACKGROUNG INFORMATION DOCUMENT**

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### APPENDIX C - NEWSPAPER ADVERTS



2 Republicain Sun WAllgemeine Zeitung

A decision by the OPEC oil pro-ducer group last week to rein in output has driven up prices and could push the global economy into recession, the Internationally. Thereign Agency said on Wednesday. "The relentless deterioration of the sconnow and higher prices "The relentiess detectoration of the sconcorry and higher prices sparked by an OPEC plan to cut supply are slowing world oil demand," the Paris-based agency, which includes the United States and other top consumer countries,

said. "With unrelenting inflationary

pressures and interest rate bikes taking their toll, higher oil prices may prove the tipping point for a global economy already on the brink of recession," it added in its monthly oil report. The dire warning from the agency highlights a rift with Saudi Arabia, highights a rift with Saudi Arabia, the world's top oil exporter and de facto leader of OFEC. Actual supply losses will likely be around 1 million barrels per day and not the 2 million barrels an-nounced by the OFEC bloc, which unites the produces obb and allies.

unites the producer club and allies like Russia, the IEA said. Capacity constraints plaguing output in other OPEC member mean Saudi Arabia and the United Arab Emirates will deliver most

of the reductions, the IEA said, while new G7 and European Union sanctions on Russia could further tighten global supply.





# Zim to keep world's highest interest rates

outhern African nation hiked interest rates to 200% in June to help rein in inflation and support a local currency that has lost more than 80% of its value against the US dollar this year.

#### **PAY NDLOVU**

Zimbabwe will keep the world's highest benchmark interest rate of 200% into next year as it priori-

tises economic stabili-ty ahead of high growth rates, Finance Minister Mthull Neube said.

"I think once we see that downtrend in month-on-month inflation being sustainable, maybe over sustainable, maybe over a three-to four-month period, then we can begin to think about lowering interest rates," Ncube said. "But for now, the tough monetary regime stance and the tough fixed stance also stand fiscal stance also stand. That's what it takes to

That's what it takes to bring stability and bring things under control."

The southern African nation hiked interest rates to 200% in In June to bely rein in inflation and support a local currency that has lost more than 80% of its value against the US dollar

Authorities now had to sacrifice growth that was forecasted at 4.6% for this year. . .

Mthuli Ncube, Finance Minister: Zimbabwe

this year. The tight mon-etary stance has resulted in a shortage of Zimba-bew dollars on the paral-lel market, enabling the convergence of the of-ficial and unofficial ex-tension at est change rates.

consumer prices surged 280% in September, ac-cording to the nation-al statistics agency. Au-thorities are targeting a monthly inflation rate of 3%, although the desira-ble target is 1% and may be burd in earliers. Nonhe be hard to achieve, Ncube told reporters Saturday at a virtual press brief-ing in Washington. Consumerprices rose 3.5% in September from a month earlier. Noube said authori-

ties now had to "sacri-fice" growth that he had earlier forecast at 4.6% for this year, compared with a 5.5% forecast in

The International Mon

The International Mon-stary Fund cut Zimba-bwe's growth cutlook to 3% from 3.5%. A Zimbabwean dollar trades at Z\$628 per US dollar, according to the central bank's website.

#### **BURSARIES APPLICATION 2023**



invites applications for pursue studies in SADC.

#### UNDER-GRADUATE STUDIES:

- DEGREE IN ELECTRICAL ENGINEERING
- DEGREE IN MECHANICAL ENGINEERING DEGREE IN RISK MANAGEMENT
- DEGREE IN QUANTITY SURVEY
  DEGREE IN COMPUTER SCIENCE (CYBER SECURITY)
- DEGREE IN COMPUTER SCIENCE
- DEGREE IN INDUSTRIAL ENGINEERING

#### BURSARIES FOR PEOPLE LIVING WITH DISABILITY

- DEGREE IN ACCOUNTING

Please note: Applicants should indicate the nature of disability on the application form.

#### ELIGIBILITY FOR A NAMPOWER BURSARY IS DEPENDENT ON:

- Grade 11 Certificate
- Grade 12 1st and 2nd Term Results or Grade 12 Certificate
- Academic progress report, if already a student at a University, Technikon or University of Technology
- Provisional acceptance at a University, Technikon or University of Technology or any Institution

NB: Applications for study fields other than the ones mentioned all considered. Only short-listed candidates will be contacted for interviews.

The decision of the NamPower Bursary Committee as endorsed by the Managing Director is final,

Application forms can be obtained at NamPower Offices (in all Regions) as well as at the NamPower Head Office, 15 Luther Street, Windhoek or on the NamPower website www.nampower.com.na. Completed application forms together with certified copies of the abovernemioned documentation should be sent to:

The Bursary Administrator, NamPower, P. O. Box 2864, Windhook

The deadline for submission of applications is 31 October 2022.

Note: Female and disadvantaged candidates are enco especially in the Engineering study fields.

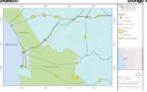


OF ENVIRONMENTAL ASSESSMENT FOR THE PROPOSED EXPLORATION ACTIVITIES ON EPLA 8728, 8792 & 8795 FOR NUCLEAR FUELS WITHIN THE ERONGO REGION, NAMIEIA.

Environmental Compliance Consultancy CC (ECC) hereby gives notice to the public that an application for an endirormental dearence certificate in terms of the Environmental Management Act, No. 7 of Applicant Professional Profes

rtal Assessment Practitioner (EAP):

Marerica Ventures (Pty) Ltd

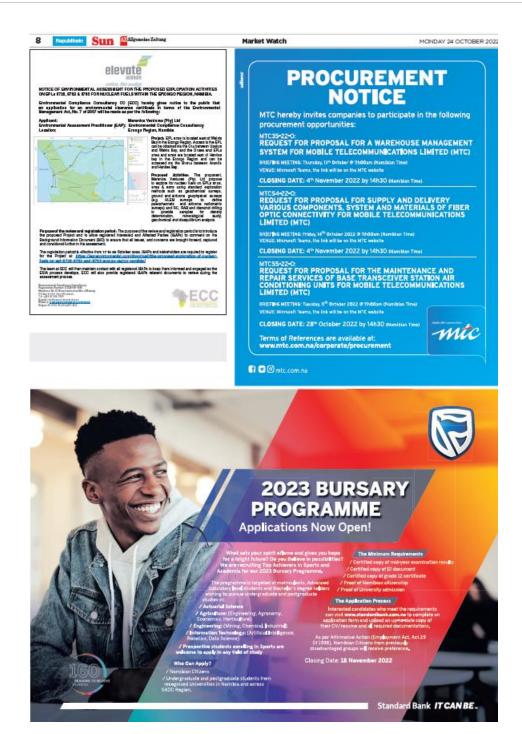


Project: EPL 6738 is located





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### **APPENDIX D - SITE NOTICES**







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#### APPENDIX E - STAKEHOLDER LETTERS

Environmental Compliance Consultancy (Pty) Ltd PO Box 91103 Klein Windhoek Namibia info@eccenvironmental.com www.eccenvironmental.com +264.81.669.7608



ECC-79-422-LET-09-A 10 May 2023

RECEIVED BY OFFICIAL STAMP					
Signature:					
Date:	/	/			

P. O Box 21164

Windhoek

Namibia

#### IDENTIFIED STAKEHOLDER AND POTENTIALLY INTERESTED PARTY FOR:

The proposed exploration activities on EPL 8795 for Nuclear Fuels within the Erongo Region, Namibia.

RE - NOTIFICATION OF AN ENVIRONMENTAL ASSESSMENT OF THE PROPOSED EXPLORATION ACTIVITIES FOR NUCLEAR FUELS WITHIN EPL 8795, ERONGO REGION, NAMIBIA.

Dear Mr. Gaseb,

Environmental Compliance Consultancy (ECC) has been engaged by Marenica Ventures (Pty) Ltd (part of the Elevate Uranium Limited group of companies), the Proponent, as their environmental assessment practitioner to conduct the environmental clearance certificate application process in terms of the Environmental Management Act, No. 7 of 2007 for the proposed exploration activities for nuclear fuels within EPL 8795. The proposed Project is in the Erongo district, east of Henties Bay. The EPL can be accessed via the B1914 between Arandis and Henties Bay.

This letter is intended to engage potentially Interested and Affected Parties (I&APs) for the Project and provides a communication channel to ECC whilst the ESIA is ongoing. You have been identified as an interested or affected party and therefore ECC wishes to inform you of how you can interact with the ESIA.

The Proponent proposes to explore for nuclear fuels on EPL 8795 (Marenica East) using standard exploration methods such as geochemical surveys, ground and airborne geophysical surveys (e.g. HLEM surveys to define paleochannels and airborne radiometric surveys) and RC, RAB and diamond drilling to provide samples for density determination, mineralogical study, geochemical and disequilibrium analysis.

Public participation is an important part of the ESIA process, as it allows the I&APs to obtain information about the proposed project and provide feedback. Communication with the I&APs occurs at various stages throughout a project lifecycle including:

- Advertising in newspapers; public notice boards; public meeting(s);
- Distributing a Background Information Document (BID) to identified I&APs; available online at (https://eccenvironmental.com/projects/)

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+264 81669 7608 info@eccenvironmental.com www.eccenvironmental.com PO BOX 91193 Klein Windhoek Namibia



- Registered I&APs will also be informed of the available draft scoping report for a review period, during this period I&APs will have the opportunity to review the draft document and raise any issues or concerns; and
- I&APs who wish to register as such must do so on the ECC website as per the link provided below: <a href="https://eccenvironmental.com/download/the-proposed-exploration-of-nuclear-fuels-on-epl-8728-8792-and-8795-erongo-region-namibia/">https://eccenvironmental.com/download/the-proposed-exploration-of-nuclear-fuels-on-epl-8728-8792-and-8795-erongo-region-namibia/</a>.
- If you are unable to complete the registration form online, please contact us via email for assistance at info@eccenvironmental.com.

Should you have any questions or require additional information, please do not hesitate to contact either of us.

Yours sincerely,

*5*32.

Stephan Bezuidenhout stephan@eccenvironmental.com dB-

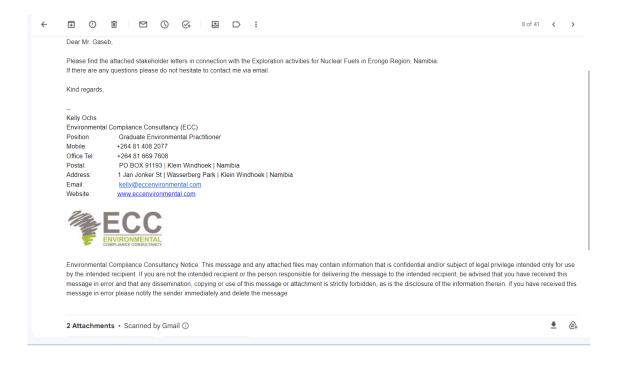
Jessica Bezuidenhout Mooney jessica@eccenvironmental.com

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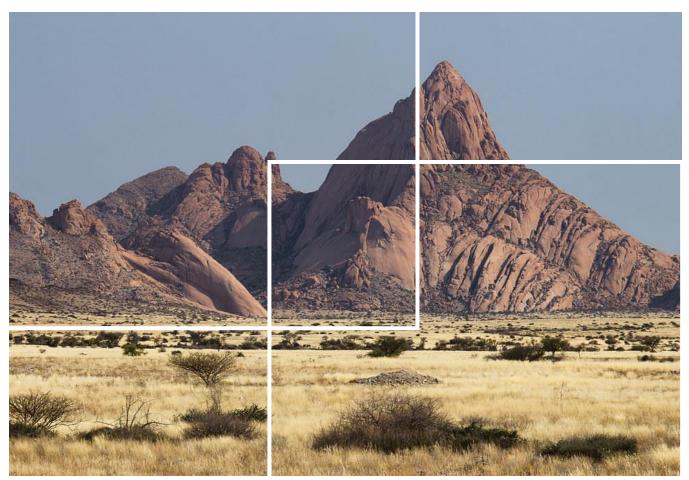
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### **APPENDIX E - EAP CVS**





Submitted to: Marenica Ventures (Pty) Ltd
Attention: Mr Murray Hill
P O Box 90242
Klein Windhoek
Windhoek, Namibia

### **REPORT:**

# BACKGROUND INFORMATION DOCUMENT FOR EXPLORATION ACTIVITIES ON EPL 8795, ERONGO REGION, NAMIBIA.

PROJECT NUMBER: ECC-79-422-BID-03-A

REPORT VERSION: REV 01

DATE: OCTOBER 2022





Marenica Ventures (Pty) Ltd

#### **TITLE AND APPROVAL PAGE**

Project Name: Background information document for exploration activities on

EPL 8795, Erongo Region, Namibia.

Client Company Name: Marenica Ventures (Pty) Ltd

Client Name: Mr Murray Hill

Authors: Monique Jarrett

Status of Report: For Internal Review
Project Number: ECC-79-422-BID-03-A

Date of issue: October 2022

#### **ENVIRONMENTAL COMPLIANCE CONSULTANCY CONTACT DETAILS:**

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



Environmental Compliance Consultancy PO Box 91193, Klein Windhoek, Namibia

Tel: +264 81 669 7608

Email: <u>info@eccenvironmental.com</u>

#### **DISCLAIMER**

Environmental Compliance Consultancy (ECC) (Reg. No. CC 2013/11401) has prepared this report on behalf of the Proponent. This report has been authored by employees of ECC, who have no material interest in the outcome of this report, nor do any of the ECC team have any interest that could be reasonably regarded as being capable of affecting their independence in the preparation of this report. ECC is independent from the Proponent and has no vested or financial interest in the Project, except for fair remuneration for professional fees rendered which are based upon agreed commercial rates. Payment of these fees is in no way contingent on the results of this report or the assessment, or a record of decision issued by Government. No member or employee of ECC is, or is intending to be, a director, officer, or any other direct employee of the Proponent. No member or employee of ECC has, or has had, any shareholding in the project. Any personal views or opinions expressed by the writer may not necessarily reflect the views or opinions of Environmental Compliance Consultancy or its client.

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

#### PURPOSE OF THIS DOCUMENT

Environmental Compliance Consultancy (ECC) has been contracted by Marenica Ventures (Pty) Ltd to conduct an environmental and social impact assessment (ESIA) and develop an environmental management plan (EMP), for exploration activities for nuclear fuels in the Erongo Region, Namibia. Consistent with the Environmental Management Act, 2007 and its regulations. An environmental clearance certificate 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 regards to the proposed project.

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 Social Impact Assessment (ESIA) process.

All those who register as an I&AP will be kept informed throughout the ESIA process. Registration provides a platform for participants to submit comments, concerns, or recommendations regarding the proposed project. This BID includes the following information:

- The proposed project and location
- The necessity of the project, benefits or adverse impacts anticipated
- The alternatives within the project that will be considered and assessed
- How the ESIA process works
- The public participation process and how to become involved
- Next steps and the way forward

### DESCRIPTION OF THE PROPOSED PROJECT

The Proponent intends to carry out exploration activities of nuclear fuels on the Exclusive Prospecting Licence (EPL) 8795. The Proponent will conduct geological mapping, geochemical and geophysical surveys, and drilling (RAB, RC or DD/core drilling) if warranted.

The EPL is located east of Hentis Bay in the Erongo Region. Access to the EPL can be obtained via the D1918 between Usakos and Hentis Bay as set out in Figure 1.



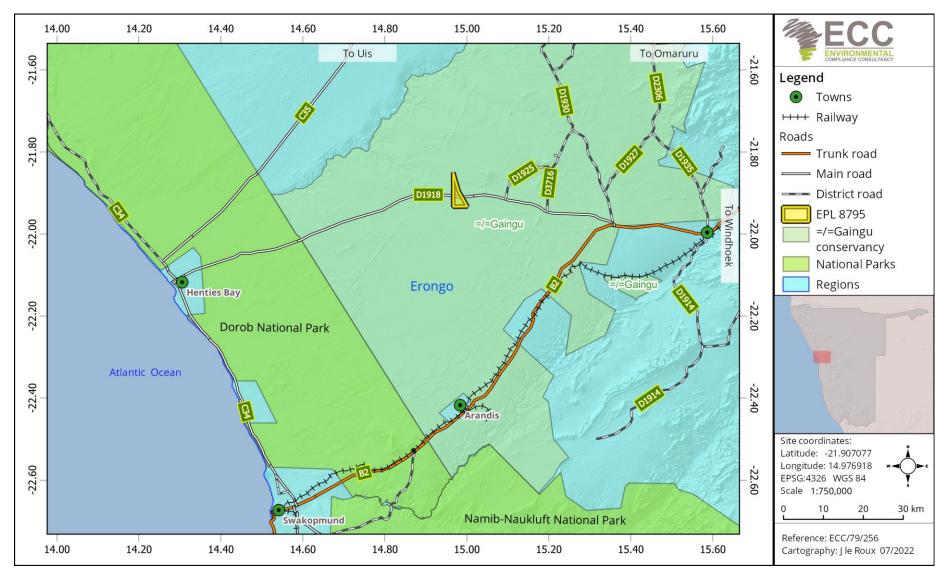


Figure 1 – EPL 8795 Locality Map



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In terms of Section 32 (1) of the Environmental Management Act, No. 7 of 2007, ECC has determined that the Ministry of Mines and Energy (MME) is the competent authority for the proposed mining project. The mining activity triggers the listed activities as per the Environmental Management Act Regulations. The relevant activities list provided later in the BID.

### NEED FOR THE PROJECT

The Proponent intends to pursue mineral exploration activities in Namibia with the aim of identifying new mining prospects. New mining activities could contribute to the national and local economies and may have a positive impact on the country's economy.

Namibia natural resources and the minerals sector are a key contributor to the nation's GDP in Namibia. Exploration could lead to mining activities, which would contribute to the national and local economy. The project is consistent with the National development plan.

### **CONSTRUCTION AND OPERATIONAL PHASES**

The following are envisioned during the proposed Project:

- Minimal ground clearing for tracks, where existing tracks cannot be used,
- Ground and airborne geophysical surveying (eg HLEM surveys to define paleochannels and airborne radiometric surveys)
- Geochemical surveys, for sampling of soil or rock for geochemical analysis
- Drilling: RAB, RC or diamond drilling to provide samples for density determination, mineralogical study, geochemical and disequilibrium analysis.



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### **2 CONSIDERATION OF ALTERNATIVES**

Best practice environmental assessment methodology calls for consideration and assessment of alternatives to a proposed project. In a project such as this one, it is difficult to identify alternatives to satisfy the need of the proposed Project; the activities shall be specific to EPL 8795 which was granted by the MME to Marenica Ventures (Pty) Ltd.

During the ESIA assessment, alternatives will take the form of consideration of optimisation and using eco-friendly solutions to reduce potential impacts. Some aspects where alternatives may be required could include:

- Different types of technology or operation
- Different access routes
- Different exploration techniques



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# 3 THE ENVIRONMENTAL AND SOCIAL IMPACT ASSESSMENT PROCESS

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

A final decision relating to the above-mentioned application will be made by Ministry of Environment, Forestry and Tourism (MEFT), Department of Environmental Affairs (DEA).

The related environmental process will include:

- 1. Screening phase (completed)
- 2. Scoping phase which includes baseline studies and the development of the Terms of Reference (ToR) for the ESIA (initiated)
- 3. Assessment Phase which includes impact prediction and evaluation of alternatives, assigning mitigation measures and developing monitoring and conceptual rehabilitation plans. This phase culminates in the drafting of the ESIA report and draft Environmental Management Plan (EMP) and submission to the appropriate competent authorities

The main objectives of the ESIA are to:

- a) Provide information describing the proposed exploration activities;
- b) Provide an independent environmental and social assessment of the activities associated with the proposed project; and
- c) Develop management and mitigation measures associated with any identified potential impacts where necessary.



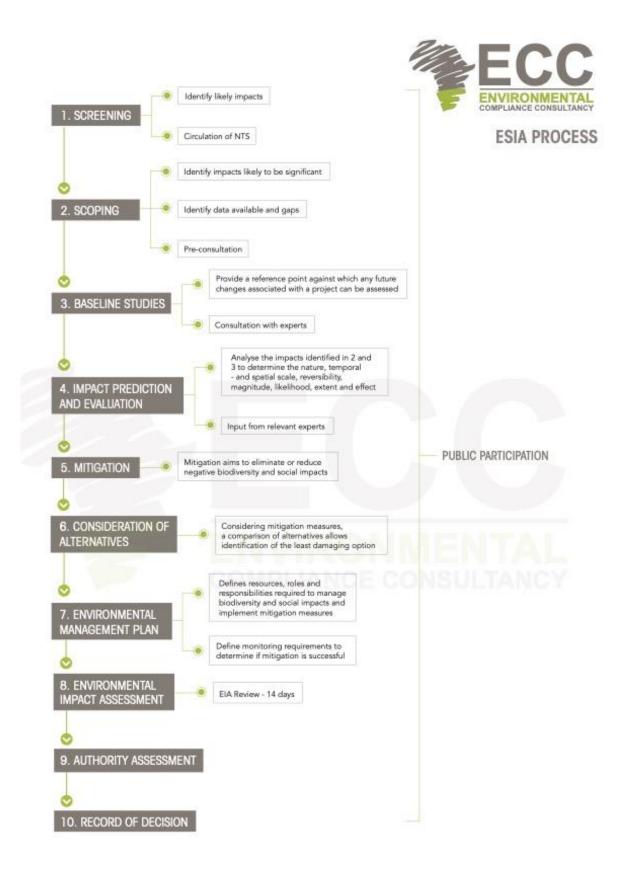


Figure 2 - Flowchart of the environmental and social assessment process



### 3.1 Screening

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

Table 1- Listed activities triggered by the proposed project

LISTED ACTIVITY	EIA SCREENING FINDING
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	<ul> <li>Waste generated which will be mainly solid waste and general waste during the exploration phase will be removed by a skip and will be disposed of at the nearest landfill site.</li> <li>A portable toilet, long drop hole for toilet or chemical toilets will be used during exploration activities.</li> </ul>
MINING AND QUARRYING ACTIVITIES  (3.1) The construction of facilities for any process or activities which requires a licence, right or other form of authorisation, and the renewal of a licence, right or other form of authorisation, in terms of the Minerals (Prospecting and Mining Act), 1992  (3.2) Other forms of mining or extraction of any natural resources whether regulated by law or not  (3.3) Resource extraction, manipulation, conservation and related activities	<ul> <li>The proposed project requires an environmental clearance from DEA/MEFT for the extraction of nuclear fuel minerals.</li> <li>Minerals (soil and sand), and nuclear fuel minerals will be sourced out within the project's footprint.</li> <li>The proponent will also undertake geochemical surveys, geophysical surveys, and RC drilling</li> </ul>
FORESTRY ACTIVITIES  (4.) The clearance of forest areas, deforestation, aforestation, timber harvesting or any other related activity that requires	Limited vegetation clearing may be required for tracks and survey access creation, and possibly for the set up for survey and drilling teams' field camps. Clearing of large trees will be avoided.

ECC Report Nº: ECC-79-422-BID-03-A



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ENVIRONMENTAL	Marerica veritures (Fty) Ltu
LISTED ACTIVITY	EIA SCREENING FINDING
authorisation in term of the Forest Act, 2001 (Act No. 12 of 2001) or	
any other law.	
WATER RESOURCE DEVELOPMENTS (8.1) The abstraction of ground or surface water for industrial or commercial purposes.	For the drilling of exploration boreholes, ground water may need to be abstracted, or water will be sourced.
HAZARDOUS SUBSTANCE TREATMENT, HANDLING AND STORAGE	Portable toilets, long drop holes for toilets, or chemical toilets will be used during the exploration activities.
(9.2) Any process or activity which requires a permit, licence or other form of authorisation, or the modification of or changes to existing facilities for any process or activity which requires an amendment of an existing permit, licence or authorisation or which requires a new permit, licence or authorisation in terms of a law governing the generation or release of emissions, pollution, effluent or waste.	



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### 3.2 SCOPING

The scoping phase is directed towards defining the range and nature of anticipated potential impacts that may have significance to the biophysical and social environments at the scale of the proposed operations. The appropriate available data and the literature are identified forming the starting point for the assessment of the required baseline and specialist studies that may be required for assessment of the project impacts.

#### 3.3 BASELINE STUDIES

The ESIA will focus 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. The baseline studies chapter is divided into three sections:

- The baseline context;
- Environmental (physical and biological), and
- Social (including economic).

Desktop studies a well as all available field surveys and specialist studies from the project area will be used to help define the baseline. These studies also give a further indication whether there are any local or regional future developments that could impact the project or vice versa.

Lastly the socio-economic section of the baseline studies helps to gain information on the governance, demographic profile, social stratification (employment, education, crime, infectious disease), occupation and livelihood (economic activities, occupations in study area, employment rates), land patterns (noise and vibrations) and access to services (drinking water, sanitation, healthcare facilities etc.).

### 3.4 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.

#### 3.5 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 biophysical and socio-economic environments, the specialist baseline studies, the stakeholder engagement report and the terms of reference for the ESIA.



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#### 3.6 Environmental and social impact assessment phase

#### 3.6.1 POTENTIAL IMPACTS

The potential social and economic impacts should be considered with due regard to the nature and scale of the proposed operations its location within the broader ecological, commercial and social environments. The potential environmental and social impacts that have been anticipated may include the following:

- Water use, contamination, and management;
- Waste management;
- Waste resource management;
- Visual impacts;
- Biodiversity impacts;
- Jobs will be created as a result of the proposed exploration activities.
- Potential to unearth, damage or destroy undiscovered heritage remains; and
- Minor disruptions to residents of neighbouring farms, due to potential noise and dust generation as a result of the proposed exploration activities.

#### 3.6.2 DRAFT ENVIRONMENTAL AND SOCIAL MANAGEMENT PLAN

An EMP shall be developed for the proposed project setting out auditable management actions for the project to ensure careful and sustainable management measures are implemented for their activities in respect of the surrounding environment and community. The EMP becomes the legally binding commitments upon approval of the EMP and issuing of the environmental clearance certificate. Environmental clearance certificates are issued for a period of 3 years and renewal is subject to compliance with the provisions and conditions of the environmental clearance certificate.



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### **4 THE WAY FORWARD - PUBLIC PARTICIPATION**

Public participation is an important part of the ESIA 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 the 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 Marenica Ventures (Pty) Ltd exploration project (this document)
  - Advertise the environmental application and call for registration of I&APs in two national newspapers
  - Open the project I&AP register and record all comments of I&APs and present both comments and responses provided by ECC, in the comments and responses report, which will be included in the scoping report and submitted with the application
- Prepare a scoping report and provide it 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 decision

Your 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 ECCs website on the projects page, or by using this link: <a href="https://eccenvironmental.com/download/the-proposed-exploration-of-nuclear-fuels-on-epl-8728-8792-and-8795-erongo-region-namibia/">https://eccenvironmental.com/download/the-proposed-exploration-of-nuclear-fuels-on-epl-8728-8792-and-8795-erongo-region-namibia/</a>

Registration as an I&AP should be submitted on or before 16 October 2022.

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

**Environmental Compliance Consultancy (ECC)** 

info@eccenvironmental.com

Tel: +264 816 697 608

www.eccenvironmental.com

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