

# ENVIRONMENTAL SCOPING AND MANAGEMENT PLAN

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The Proposed Exploration  
Activities on Mining Claims  
(MCs 73889 - 73894) in  
respect to Industrial Mineral  
and Semi-Precious Stone  
Situated South-west of  
Otjimbingwe, Erongo Region

**MARCH 6**


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**DOCUMENT INFORMATION AND APPROVAL**

<b>DOCUMENT INFORMATION AND APPROVAL</b>		
<b>Title</b>	Environmental Scoping and Management Plan for the Proposed Exploration Activities on Mining claims (MCs 73889 - 73894) in respect to Industrial Mineral and Semi-Precious Stone Situated	
<b>ECC Application Reference number</b>	APP-001055	
<b>Location</b>	South-west of Otjimbingwe, Erongo Region	
<b>Proponent</b>	Erich Dennis Petrus P. O. Box 86668 Windhoek - Namibia	
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# executive summary

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## Project Overview

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Mr. Erich Dennis Petrus (herein referred to as the proponent), is a Namibia national and who ventures in exploration and mining. Mr. Petrus aims at prospecting and eventually developing mining ventures in respect to Industrial Mineral.

Their objective is to undertake exploration activities in order to obtain data on the presence of minerals for further mining development. While the proposed activity may stimulate future economic growth and possible rural development, and employment opportunities, it also present possibility of unprecedented negative environmental impacts.

Potential impacts may vary in terms of scale (locality), magnitude and duration e.g. minor negative impacts in the form of dust and noise pollution especially during the handling (loading and off-loading) will be experienced.

## Need for the Project

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Mining contributes about 25% to the Namibian GDP income, and thus the largest contributor to the Namibian economy. As in many African countries, mining is a key source of mineral commodities essential for maintaining and improving standards of living. Most important, the Namibian government makes provision for its citizens to obtain various mining license in order to create self-employment or business opportunities.

Overall, the exploration activities is expected to generate full time medium to long term direct employment for at least 5-10 workers. The majority of workers to be employed on the proposed exploration project are expected to be skilled and/or semi-skilled (general labourers and operators).

Critically, going ahead with the proposed activity creates potential for the following marginal net benefits:

- Contribution Taxes and Royalty
- Technological Skill and Knowledge transfer
- Creates the most needed employment opportunities

## Project Description

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Mr. Erich Dennis Petrus seek to operate their mining claims activities on MCs 73889 – 73894 within the Erongo Region, in respect to Semi-Precious Stones and Industrial Mineral. Principally, the joint-venture intends to explore (desktop geological study, collection of samples and identification of previous activity in the area where industrial minerals mining were conducted) for industrial minerals and intends to mine these on a small-scale basis by use of hand-held equipment and to small degree drilling.

The proposed exploration activities mainly consist of the following prospecting activities: Geological mapping: this mainly entails a desktop review of geological area maps and ground observations.

- Lithology geochemical surveys: rock samples shall be collected and taken for trace element analysis. Also, trenches or pits may be dug (in a controlled environment e.g. fencing off and labelling activity sites) adopting manual or excavator to investigate the mineral potential. At all times, the landowner and other relevant stakeholder will be engaged to obtain authorisation where necessary.
- Geophysical surveys: entails data collection of the substrata, by air or ground, through sensors such as radar, magnetic and electromagnetic to detect any mineralization in the area.
- Drilling: Should analyses by an analytical laboratory be positive, holes are drilled and drill samples collected for further analysis. This will determine the depth of the potential mineralization. If necessary new access tracks to the drill sites will be created and drill pads will be cleared in which to set the rig. However, at this stage the proponent does not intent to conduct any drilling activities.

## Need for an Environmental Impact Assessment

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While increased economic activities can stimulate demographic changes and alter social, economic and environmental practices in many ways. Adverse environmental and socio-economic impacts have become a major area of concern for the business community, their customers, and other key stakeholders. As a result, companies seek to manage these impacts as part of their ethical and sustainable business conduct. Similarly, identifying, avoiding, mitigating and managing impacts, is a necessary condition for Mr. Erich D. Petrus to undertake its operation in compliance with the environmental legislative requirements in Namibia.

Therefore, Mr. Erich D. Petrus appointed Enviro-Leap Consulting cc to conduct an environmental assessment and facilitate the process of obtaining and Environmental Clearance Certificate.

## **Approach to the EIA Process**

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The assessment process consisted of a site visit to the project location and public consultation meetings with the Interested and Affected Parties (I&APs). An environmental scoping and management plan (EMP) were compiled and constitute the application for an Environmental Clearance Certificate submitted to the Ministry of Environment and Tourism (Office of Environmental Commissioner).

## **Overall Recommendation**

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Based on the findings of the environmental scoping assessment, which concludes that all potential negative impacts associated to the proposed Mr. Erich D. Petrus's prospecting operations are minimal and practical mitigation measures are available. Equally, the positive impacts can be harnessed to increase the net marginal benefits relating to the socio-economic aspects of the operations.

The proposed operations is considered to have an overall low negative environmental impact and an overall moderate positive socio-economic impact (with the implementation of respective mitigation and enhancement measures).

Based on this, it recommended that the proponent must upon obtaining their Environmental Clearance Certificate (ECC), implement all appropriate management and mitigation measures and monitoring requirements as may be stipulated in their EMP and or as condition of the ECC. These measures must be undertaken to promote and uphold good practice environmental principles and adhere to relevant legislations by avoiding unacceptable impacts to the receiving environment.

The following is a summary of the likely negative impacts that have been assessed for the different phases of the proposed exploration activities:

- i. Land use (Likely impacts are negligible; the mining claims area and sites are isolated from the distant settlements, and conservation zones).
- ii. Noise (Likely impacts are low as the site is far from residential areas).
- iii. Ecological and biodiversity loss (Likely impacts are localized and low).
- iv. Health and safety (Overall likely impacts are low with correct PPE).
- v. Solid and hazardous waste management (Likely impacts are low with a solid waste management plan and minimal hydrocarbon fuel use).
- vi. Socioeconomic (Likely negative impacts are low)

Taking into consideration the findings of the environmental scoping assessment process and given the national and regional strategic requirements for infrastructure development and economic growth, it is the opinion of the EAP that the project benefits outweigh the costs and that the project will make a positive contribution towards steering Namibia on its pathway towards its vision of becoming a Logistic Hub.

Provided that the specified mitigation measures are applied effectively, it is recommended that Mr. Erich D. Petrus are issued with an ECC in terms of the Section 32 of the EMA No. 7 of 2007 and it's EIA Regulations of 2012.

# **glossary**

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<b>AfDB</b>	<b>African Development Bank</b>
<b>BID</b>	<b>Background Information Document</b>
<b>BoN</b>	<b>Bank of Namibia</b>
<b>CA</b>	<b>Competent Authority</b>
<b>DEAF</b>	<b>National Department of Environmental Affairs and Forestry</b>
<b>EA</b>	<b>Environmental Authorization</b>
<b>ECC</b>	<b>Environmental Clearance Certificate</b>
<b>EAP</b>	<b>Environmental Assessment Practitioner</b>
<b>EIA</b>	<b>Environmental Impact Assessment</b>
<b>EMA</b>	<b>Environmental Management Act</b>
<b>GPS</b>	<b>Geographical Positioning System</b>
<b>MME</b>	<b>Ministry of Mines and Energy</b>
<b>MEFT</b>	<b>Ministry of Environment, Forestry and Tourism</b>
<b>IMF</b>	<b>International Monetary Fund</b>
<b>GPS</b>	<b>Geographical Positioning System</b>
<b>UN</b>	<b>United Nations</b>

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## 1. INTRODUCTION

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The Environmental Management Act No. 7 of 2007 (also referred to as the EMA) and its Regulations promulgated in the Government Gazette No. 4878 of 2012, stipulates that for each developmental activity, which is listed as those that may not be undertaken without obtaining an Environmental Clearance Certificate (ECC), an Environmental Assessment (EA) must be conducted. The proposed handling, storage and transportation of fuel and mineral commodities triggers some listed activities in terms of the EMA.

Therefore, an environmental assessment must be conducted with an aim to identify, assess and ascertain potential environmental impacts that may arise as a result of undertaking the proposed operations. Hence, the environmental assessment is a process by which the potential impacts, whether positive or negative are predicted / identified, findings interpreted and communicating to interested and affected parties (I&APs) for inputs.

Additionally, this report presents findings of an environmental scoping process that evaluates the likely socio-economic and environmental effects the proposed operation, and further identifies suitable mitigation measures for avoiding or minimizing the predicted impacts. The envisioned EIA process was undertaken in a holistic approach encompassing different elements as shown in **Figure 1**.



*Figure 1: Anticipated Environmental Assessment Timeline*

### 1.1. PROJECT APPLICANT AND PROJECT OVERVIEW

Mr. Erich D. Petrus (herein referred to as the proponent), is solely owner of a fully registered, 100% Namibian owned company that ventures in small-scale exploration and quarrying of semi-precious and dimension stone. Their aim is to take advantage of the opportunity for self-employment and job creation that exist in the small-scale mining sector of Namibia.

Mr. Erich D. Petrus seek to jointly operate their business activities their two MC 73889 - 94 within the Erongo Region, in respect to Semi-Precious Stones and Industrial Mineral. Principally, the joint-venture intends to explore (desktop geological study, collection of samples and identification of previous activity in the area where industrial minerals mining were conducted) for industrial minerals and intends to mine these on a small-scale basis by use of hand-held equipment and to small degree drilling.

## 1.2. PROJECT MOTIVATION (INCLUDING NEED AND DESIRABILITY)

Mining contributes about 25% to the Namibian GDP income, and thus the largest contributor to the Namibian economy. As in many African countries, mining is a key source of mineral commodities essential for maintaining and improving standards of living. Most important, the Namibian government makes provision for its citizens to obtain various mining license in order to create self-employment or business opportunities.

Mr. Erich D. Petrus, were therefore presented an opportunity to venture into the sector by undertaking an exploration programme in respect in respect to Semi-Precious Stones and Industrial Mineral.

### 1.2.1. *Need and Desirability*

Overall, the exploration activities is expected to generate full time medium to long term direct employment for at least 5-10 workers. The majority of workers to be employed on the proposed exploration project are expected to be skilled and/or semi-skilled (general labourers and operators).

Critically, going ahead with the proposed activity creates potential for the following marginal net benefits:

- Contribution to Taxes and Royalty
- Technological Skill and Knowledge transfer
- Creates the most needed employment opportunities
- Attainment of the SDGs 1 and 8 in Namibia

## 1.3. REQUIREMENTS FOR AN ENVIRONMENTAL IMPACT ASSESSMENT

While increased economic activities can stimulate demographic changes and alter social, economic and environmental practices in many ways. Adverse environmental and socio-economic impacts have become a major area of concern for the business community, their customers, and other key stakeholders. As a result, companies seek to manage these impacts as part of their ethical and sustainable business conduct. Similarly, identifying, avoiding, mitigating and managing impacts, is a necessary condition Mr. Erich D. Petrus to undertake its operation in compliance with the environmental legislative requirements in Namibia.

To ensure that development activities are undertaken in an economic, social and environmental sound / sustainable manner, the Namibian Constitution and Environmental Management Act No. 7 of 2007 provides for an environmental assessment process.

The purpose of the environmental assessment and therefore this report are to ensure compliance of the proposed operations with the environmental legislation in respect to managing potential impacts associated with the proposed Mr. Erich D. Petrus Exploration activities operations:

- Identifying potential socio-economic and environmental impacts
- Proposing management measures to avoid, prevent and of mitigate these

- Compile an Environmental Management for compliance monitoring and reporting on the implementation of the Environmental Clearance Certificate conditions

**Table 1:** List of activities identified in the EIA Regulations which apply to the proposed project

EMA 2007 Legislation	Description of activity	Relevance to Mr. Erich D. Petrus Investment Exploration Activities
<b>Activity 3 (3.1 &amp; 3.2) Quarrying and Quarrying Activities</b>	<p>3.1 The construction of facilities for any process or activities which requires a license, right or other form of authorization, and the renewal of a license, right or other form of authorization, in terms of the Minerals (Prospecting and Quarrying Act), 1992.</p> <p>3.2 Other forms of quarrying or extraction of any natural resources whether regulated by law or not.</p>	<p>And the construction of facilities for the purpose of carrying out a listed activities</p> <p>The quarrying or extraction of any natural resources whether regulated by law or not.</p>
<b>Activity 4</b>	4. The clearance of forest areas, deforestation, afforestation, timber harvesting or any other related activity that requires authorization in term of the Forest Act, 2001 (Act No. 12 of 2001) or any other law.	The clearance of vegetation areas to allow the quarrying activity to take place

Therefore, Mr. Erich D. Petrus appointed Enviro-Leap Consulting to conduct an environmental assessment and facilitate the process of obtaining and Environmental Clearance Certificate.

#### 1.4. EIA TEAM

In order to undertake the EIA required for the proposed project. A public participation process (PPP) forms an integral part of the Environmental Assessment Process to aid in identifying issues and possible alternatives for consideration. Details on the PPP are included in section 4 of this Scoping Report.

**Table 2:** The EIA Management Team

NAME	ORGANISATION	ROLE/ SPECIALIST STUDY UNDERTAKEN
<b>Environmental Assessment Practitioners</b>		
Shadrack Tjiramba	Enviro-Leap Consulting cc	Environment Practitioner
Vilho Pendainge Mtuleni	Enviro-Leap Consulting cc	External Reviewer

#### 1.5. DETAILS AND EXPERTISE OF THE EAP

Over the past four years the Enviro-Leap Consulting has been involved in a multitude of Environmental Assessment projects across SADC and within Namibia. The Environmental Practitioners of Enviro-Leap Consulting has a combined of more than 35 years' experience in the environmental sector (management and policy), ecological research and stakeholder engagement. Consequently, the team offers a wealth of experience and appreciation of the environmental and social priorities and national policies and regulations in Namibia.

## 1.6. OBJECTIVES OF THE ENVIRONMENTAL SCOPING ASSESSMENT

The primary objective of this EA Report is to present stakeholders, I&APs and the Competent Authority, the DEA, with an overview of the predicted impacts and associated management actions required to avoid or mitigate the negative impacts; or to enhance the benefits of the proposed Mr. Erich D. Petrus operations.

In broad terms, the 2012 EMA EIA Regulations (GG 4878) stipulates that an EIA Process must be undertaken providing to determine the potential environmental impacts, mitigation and closure outcomes, as well as the residual risks of any listed activity. Therefore, based on these (EIA Regulations), the objectives of the Environmental Assessment (EA) Process is to:

- determine the policy and legislative context within which the activity is located and note how the proposed activity complies with and responds to the policy and legislative context;
- describe the need and desirability of the proposed activity, including the need and desirability of the activity in the context of the preferred location;
- identify the location of the development footprint within the preferred site based on an impact and risk assessment process inclusive of cumulative impacts and a ranking process of all the identified development footprint alternatives focusing on the geographical, physical, biological, social, economic, heritage and cultural aspects of the environment;
- determine the nature, significance, consequence, extent, duration and probability of the impacts occurring to inform identified preferred alternatives; and the degree to which these impacts (a) can be reversed; (b) may cause irreplaceable loss of resources, and (c) can be avoided, managed or mitigated; and
- identify suitable measures to avoid, manage or mitigate identified impacts;

In terms of legal requirements, a crucial objective of the Environmental Scoping or EIA Report is to satisfy the requirements of EIA Regulations in respecting to obtaining an Environmental Clearance Certificate. This section regulates and prescribes the content of the Scoping Report and specifies the type of supporting information that accompany the submission of the ECC application to the Competent Authority.

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## 2. PROJECT DESCRIPTION

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This section provides an overview of the conceptual overview of the prospecting activities on MC 73889 - 94, sites and technology selection process for identifying the most suitable exploration techniques to be adopted.

### 2.1. OVERVIEW OF THE PROPOSED EXPLORATION ACTIVITIES

The immediate focus of planned exploration focused on interpreting the pending rock and soil samples as well as the historical data. The company now proposes to undertake exploration bulk-sampling (as illustrated in **Figure 2**) on the broader MC 73889 - 94 by way of excavating previously hand-dug pits and extracting samples for further laboratory analysis, while also and if necessary the proponent may conduct drill sampling.



*Figure 2: The life cycle of a mineral discovery development*

The proposed exploration activities mainly consist of the following prospecting activities:

- **Geological mapping:** this mainly entails a desktop review of geological area maps and ground observations. This includes the review of geological maps of the area and on-site ground traverses and observations and an update where relevant, of the information obtained during previous geological studies of the area.
- **Lithology geochemical surveys:** rock samples shall be collected and taken for trace element analysis to be conducted by analytical chemistry laboratories to determine if sufficient quantities of base & rare or precious metal or other minerals of interest are present. Also, trenches or pits may be dug depending on the commodity (in a controlled environment e.g. fencing off and labelling activity sites) adopting manual or excavator to further investigate the mineral potential.

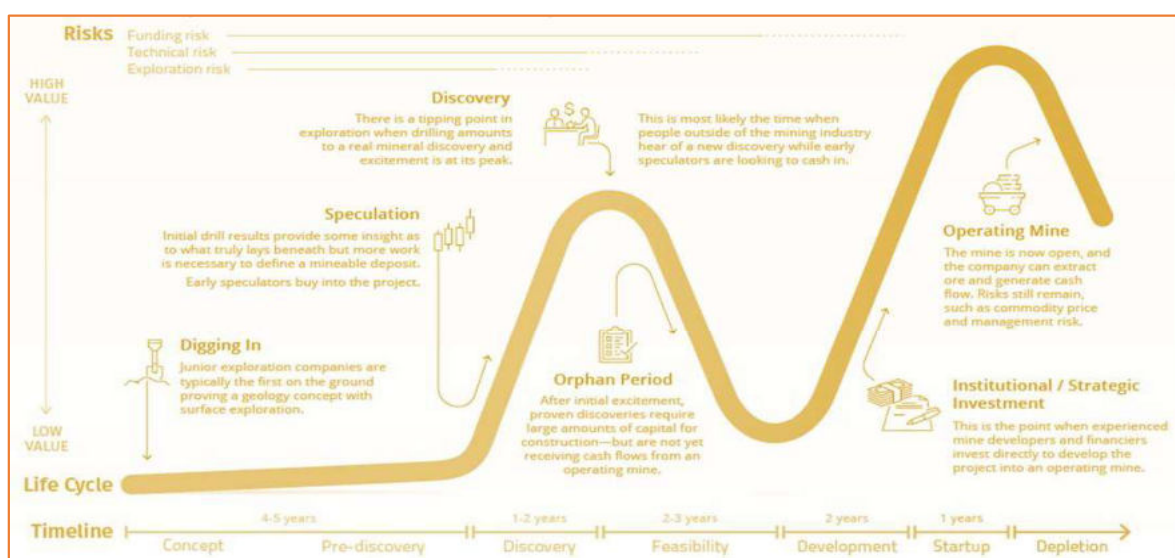
These consists of small pits ( $\pm 20\text{cm} \times 20\text{cm} \times 30\text{cm}$ ) will be dug where 1 kg samples can be extracted and sieved to collect 50 g of material. As necessary, and to ensure adequate risks mitigation, all excavations will either be opened and closed immediately after obtaining the needed samples or the sites fenced off until the trenches or pits are closed. At all times, the landowner and other relevant stakeholder will be engaged to obtain authorisation where necessary.

- **Geophysical surveys:** entails data collection of the substrata (in most cases service of an aero-geophysical contractor will be sourced), by air or ground, through sensors such as radar, magnetic and electromagnetic to detect any mineralization in the area, and are conducted to ascertain the mineralisation.

Ground geophysical surveys shall be conducted, where necessary using vehicle-mounted sensors or handheld by staff members, while in the case of air surveys the sensors will be mounted to an aircraft, which then flies over the target area.

- **Bulk Sampling:** Evidence of previous mining activity or abandoned mine sites will be sought found within the mining claims area, samples collected and sorted for further laboratory analysis to determine local concentration of (Ore containing Lithium, Tantalum and Industrial minerals and other mineral of interest) as per the sample analysis results (**Figure 3**).

A typical bulk-sampling site will consist of a front-end loaders and excavator equipment, and overburden material is excavated, lithium ore extracted and stored in large bags prior to being exported to and a drill equipment parking and maintenance yard (including a fuel and lubricants storage facility).



**Figure 3:** The life cycle of a mineral discovery development

- **Drilling Sampling:** Should analyses by an analytical laboratory be positive, holes are drilled and drill samples collected for further analysis. This will determine the depth of the potential mineralization. If necessary new access tracks to the drill sites will be created and drill pads will be cleared in which to set the rig. However, at this stage the proponent does not intend to conduct any sampling activities.

A typical drilling site will consist of a drill-rig, drill core and geological samples store and a drill equipment parking and maintenance yard (including a fuel and lubricants storage facility).

## 2.2. PROJECT RATIONALE (MOTIVATION, NEED AND DESIRABILITY)

### 2.2.1 Project Motivation

The proposed activity responds to Namibia's strategic vision 2030 and the NDP5 of creating a conducive environment within which its citizens prosper and contribute to the national development goals by creating employment opportunities. Overall, this activity contribute to the nation's efforts of elevating poverty amongst the rural citizens.

Critically, going ahead with the proposed activity on MC 73889 - 94 creates a potential for the following marginal net benefits:

- Contribution Taxes and Royalty
- Technological Skill and Knowledge transfer
- Creates the most needed employment opportunities

### 2.2.2 Project Need and Desirability

Mining contributes about 25% to the Namibian GDP income, and thus the largest contributor to the Namibian economy. As in many African countries, mining is a key source of mineral commodities essential for maintaining and improving standards of living. Most important, the Namibian government makes provision for its citizens to obtain various mining license in order to create self-employment or business opportunities.

Mr. Erich D. Petrus, were therefore presented an opportunity to venture into the sector by undertaking an exploration programme in respect in respect to Industrial Minerals, Non-Nuclear Fuel Mineral and Semi-Precious Stones and Industrial Mineral.

Overall, the exploration activities is expected to generate full time medium to long term direct employment for at least 5-10 workers. The majority of workers to be employed on the proposed exploration project are expected to be skilled and/or semi-skilled (general labourers and operators).

## 2.3. PROJECT LOCATION

The MCs 73889 – 73894 which extends an area of approximately 92.51 Ha are situated in within the Otjimbingwe Reserve and a section of the Otjimbingwe Communal Reserve and Farm Kuibes No. 88 approximately 24 km South-west of the Otjimbingwe Settlement in the Erongo (**Figures 4 and 5**). The area predominantly, consist of a number commercial (resettlement) farms on the outskirts of the Otjimbingwe Reserve that ventures in either livestock and or Game Farming activities and to some degree tourism establishments in commercial conservancies.

The mining claims are is accessible directly via the 1967 district road exiting South of Otjimbingwe and then branching onto the 1953 District road to the south and finally the 1976 into the South-western direction towards the Namib Naukluft National Park and Farm Kuibes No. 88 in particular. Other section of the mining claims will only be accessed by foot to ensure minimum impacts on the receiving environment.

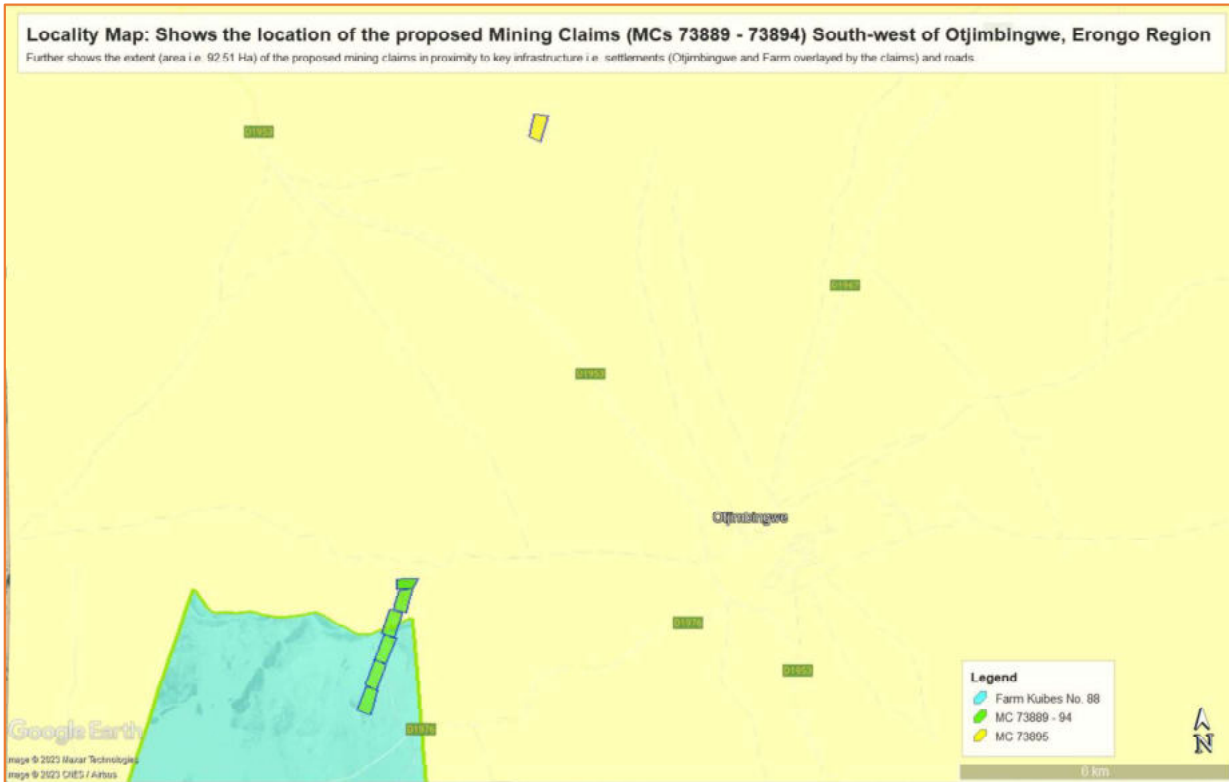


Figure 4: Locality map of the proposed exploration activity’s site or area in the Erongo Region

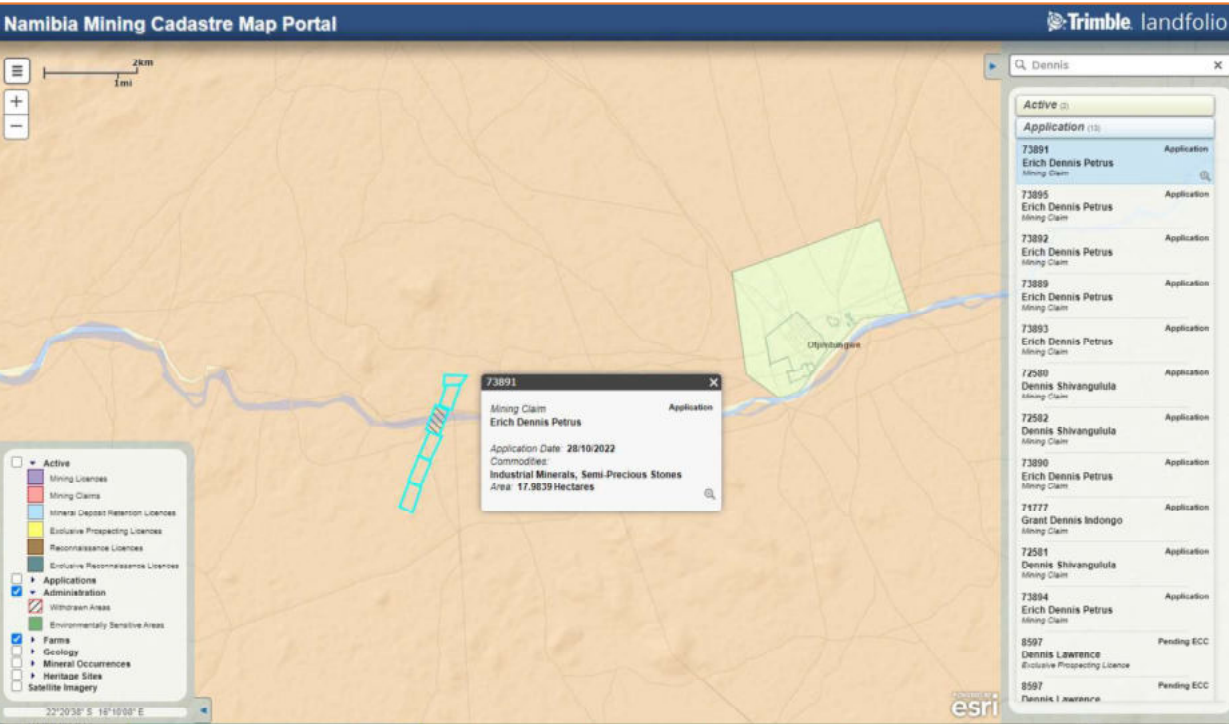


Figure 5: Evidence of the proposed mining claims application on the Ministry of Mine’s cadastre (MME, 2022)

Table 3: Corner coordinates of the proposed development site

Corner point	Latitude	Longitude
A – Mining claim 73889	-22.364365°	16.052209°
B – Mining claim 73890	-22.367695°	16.051424°
C – Mining claim 73891	-22.372355°	16.048624°
D – Mining claim 73892	-22.377608°	16.047150°
E – Mining claim 73893	-22.382712°	16.044765°
F – Mining claim 73894	-22.387976°	16.043010°



## **2.4. SUPPORTING INFRASTRUCTURE**

### **2.4.1 Basecamp**

Given the location of the mining claims is situated in a region with high tourism activity, an entirely new base-camp is not primarily recommended but rather a suitable community campsite must be rented for the duration of the exploration and or mining activity. Otherwise, a suitable site must be identified in collaboration with all relevant authorities including the Traditional Authority. Where practical and possible, it is strictly recommended that for unskilled labour, local community members are employed and thus accommodated at their existing homestead to mitigate and reduce potential conflict with the conservancy wildlife and livestock management protocols.

During the prospecting and small-scale mining duration, it is anticipated that about 5 – 10 persons will be employed, with most of these employees coming from the local community and thus housed at their communal homesteads.

The project specialists such as geologists, field assistants, geo-technicians and sampling crew, will be hosted on either a daily or special visit basis in tented accommodation where necessary, and thus might not all be on-site simultaneously.

Therefore, it is highly recommended that temporary ablution facilities must be provided and limited to within the existing base-camp footprint pre-identified protected area campsites, and the necessary authorization must be obtained prior to installation of any such facility.

In terms of waste generation and management, the predominant type of waste that will be generated during the exploration activities, in small volumes, is domestic waste i.e. packaging material (paper, wooden box, plastic sampling bags), and potentially hydrocarbons from diesel oil should a power generator needed. Domestic waste must be stored in heavy duty garbage bags and disposed of correctly at the Keetmanshoop waste disposal site.

### **2.4.2 Water supply**

At this stage water will be mainly required for domestic consumption and to a small degree for operational purposes as cooling agent for the diamond-core drilling and for dust suppression. Water can be supplied through existing farm boreholes (with the permission of the land owners) and or if necessary new boreholes shall be developed explicitly for the exploration activities by Mr. Erich D. Petrus in which case a permits must be obtained.

### **2.4.3 Power supply**

In respect to domestic power needs, a diesel generator shall be utilized to generate the needed power. However, the various machinery and equipment required for exploration e.g. vehicles are self-powered by means petrol / diesel engines and or generators, hence there is need for on-site fuel in either small mobile bowser or barrel drums on a concrete slab at the base-camp. The drill rigs will either be refuelled with Jerry cans or directly from the bowser.

#### **2.4.4 Access roads / tracks**

As far as is practical, all site particularly the extraction sites shall be accessed through existing tracks, therefore no new roads or tracks will be created. Additionally, it is highly recommended that motorised access is minimised as much as practically possible, especially during geological mapping, sampling and geophysical surveys. Equally, all new access routes should be identified and agreed upon with the landowners and demarcated prior to the commencement of activities.

The mining claims are accessible directly via the 1967 district road exiting South of Otjimbingwe and then branching onto the 1953 District road to the south and finally the 1976 into the South-western direction towards the Namib Naukluft National Park and Farm Kuibes No. 88 in particular. Other section of the mining claims will only be accessed by foot to ensure minimum impacts on the receiving environment.

#### **2.4.5 Waste (Domestic / Hazardous) Management**

Domestic Waste: Different waste containers will be provided onsite for waste sorting and safe disposal of waste generated onsite. These will be collected on a monthly basis and sent to nearest approved waste management facility in the area such as Keetmanshoop.

Sanitation: Portable ablution facilities with septic tanks will be put up for sanitation purposes for the exploration and mining teams and will be emptied in good time according to manufacturers' instructions.

### **2.5. DECOMMISSIONING AND CLOSURE PHASE**

Taking into consideration that the proposed project does not involves any construction activities, decommissioning is not foreseen during the validity of the Environmental Clearance Certificate. Consequently, any impacts associated by default with this phase of a project are not applicable to the proposed activity.

However, should the proponent at any stage of the proposed project intend to construct any infrastructure, such must be subject to a separate environmental assessment.

## 3. DESCRIPTION OF THE AFFECTED ENVIRONMENT

This chapter of the Scoping Report provides an overview of the affected environment for the proposed exploration activities. The receiving environment is understood to include biophysical, socio-economic and heritage aspects which could be affected by the proposed development or which in turn might impact on the proposed development.

### 3.1 BIOPHYSICAL ENVIRONMENT

Namibia is characterized by four land type systems, the Namib, which runs along the entire west coast from the port town of Lüderitz, northwards into southern Angola; the Succulent Karoo which lies south of Lüderitz and extends across the Orange River into South Africa; the Nama Karoo which occurs immediately to the east of the previous two desert systems and covers most of the southern third of Namibia, tapering to a narrow belt from central Namibia northwards; and the Southern Kalahari which extends eastwards across to Botswana. However, the Trans-Zambezi route only crosses through three of these, namely the Namib Desert, Nama Karoo and the tree and shrub savannah.

#### 3.1.1 Climatic Conditions

About 22% of Namibia's land is classified as desert (hyper-arid), 70% is classified as arid to semi-arid and the remaining 8% is classed as dry sub-humid (Mendelsohn et al. 2003). In Otjimbingwe, the summers are sweltering and mostly clear; the winters are short, comfortable, windy, and clear; and it is dry year round. Over the course of the year (Figure 6 and 7), the temperature typically varies from 12°C to 36°C and is rarely below 9°C or above 40°C (Mendelsohn et al. 2003).

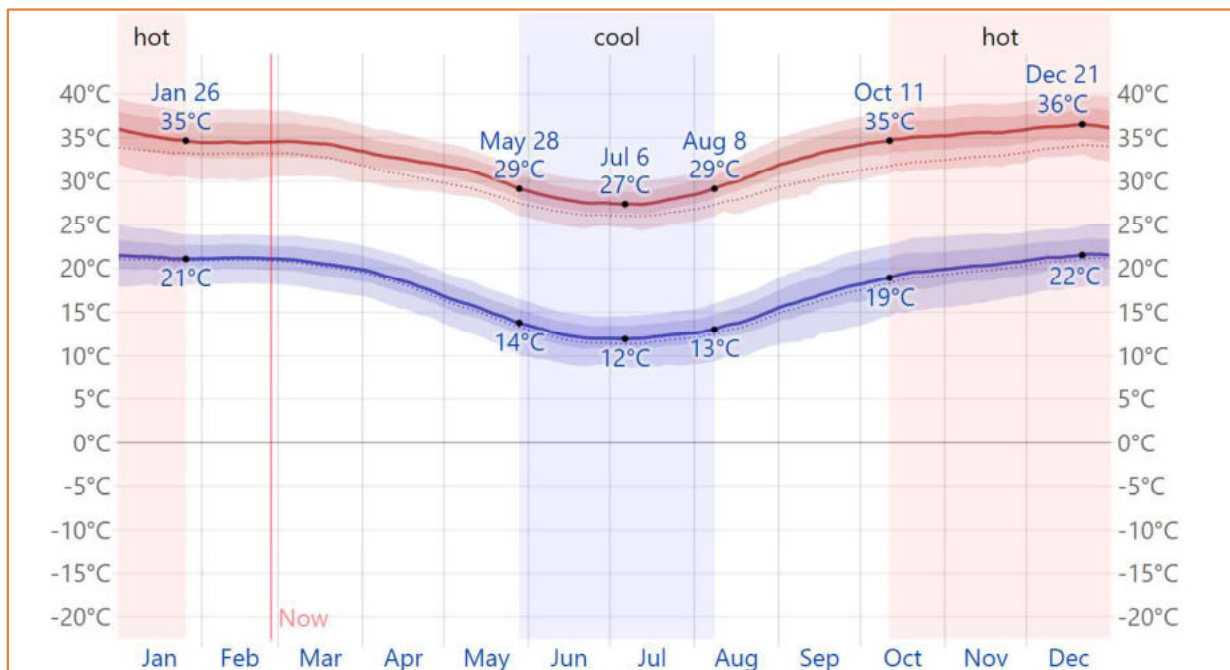


Figure 6: The daily average high (red line) and low (blue line) temperature. The thin dotted lines are the corresponding average perceived temperatures (Weather Sparks, 2022)

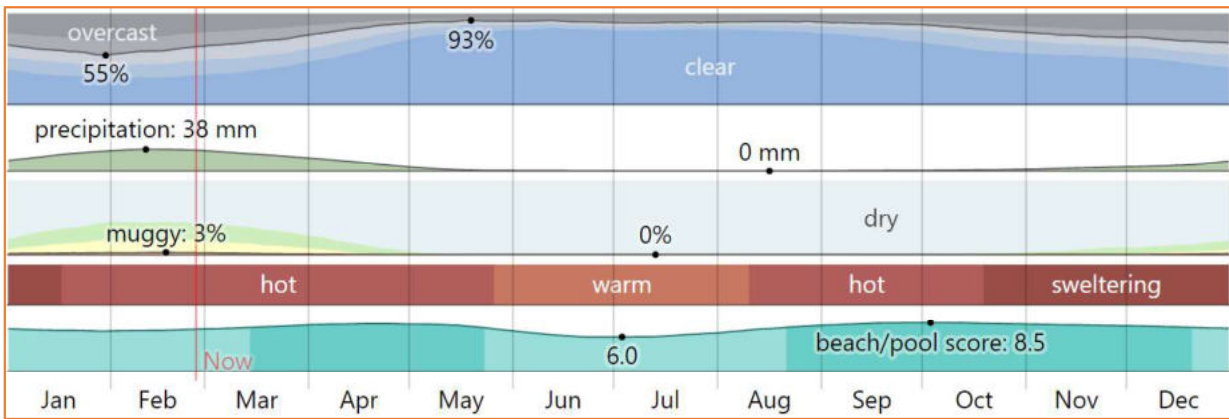


Figure 7: Otjimbingwe weather by month (Weather Sparks, 2022)

Rainfall is highly erratic and unpredictable with an inter-annual coefficient of variation that ranges from about 30% in the north-east to over 100% in the driest areas. The rainy period of the year lasts for 3.9 months (Figure 8), from December 23 to April 20, with a sliding 31-day rainfall of at least 13 millimeters. The month with the most rain in Otjimbingwe is February, with an average rainfall of 38 millimeters.

The rainless period of the year lasts for 8.1 months, from April 20 to December 23. The month with the least rain in Otjimbingwe is August, with an average rainfall of 0 millimetres.

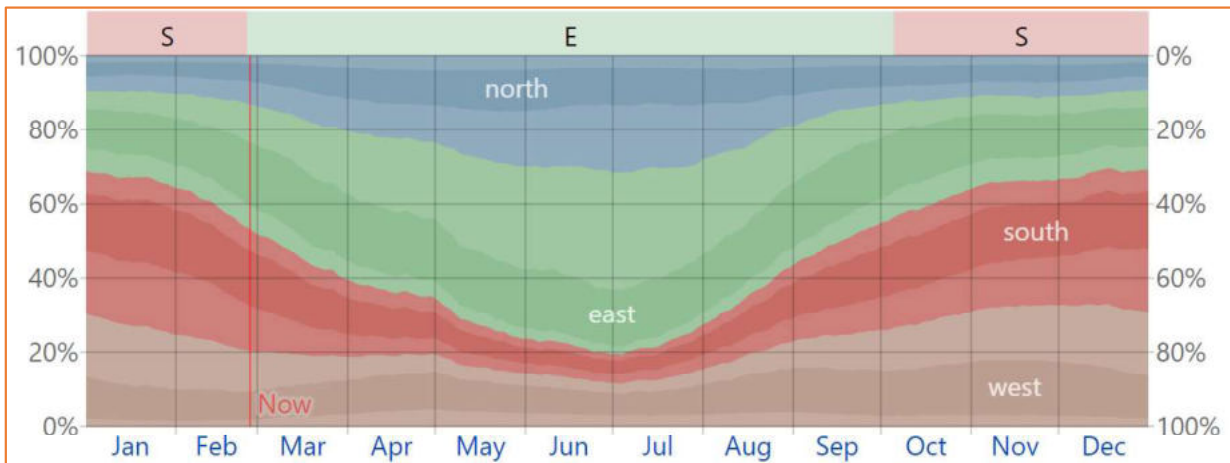


Figure 8: The average rainfall (solid line) accumulated over the course of a sliding 31-day period centered on the day in question, with 25th to 75th and 10th to 90th percentile bands. The thin dotted line is the corresponding average snowfall. (Weather Sparks, 2022)

The prominent hourly average wind vector (speed and direction) at 10 meters above the ground is highly dependent on local topography and other factors, and instantaneous wind speed and direction vary more widely than hourly averages.

The average hourly wind speed in Otjimbingwe experiences significant seasonal variation over the course of the year (Figure 9), with the windier part of the year lasts for 6.6 months, from May 17 to December 5, with average wind speeds of more than 14.4 kilometers per hour. The windiest month of the year in Otjimbingwe is July, with an average hourly wind speed of 16.9 kilometers per hour.

The wind is most often from the east for 7.4 months, from February 25 to October 5, with a peak percentage of 49% on June 28. The wind is most often from the south for 4.7 months, from October 5 to February 25, with a peak percentage of 38% on January 1.

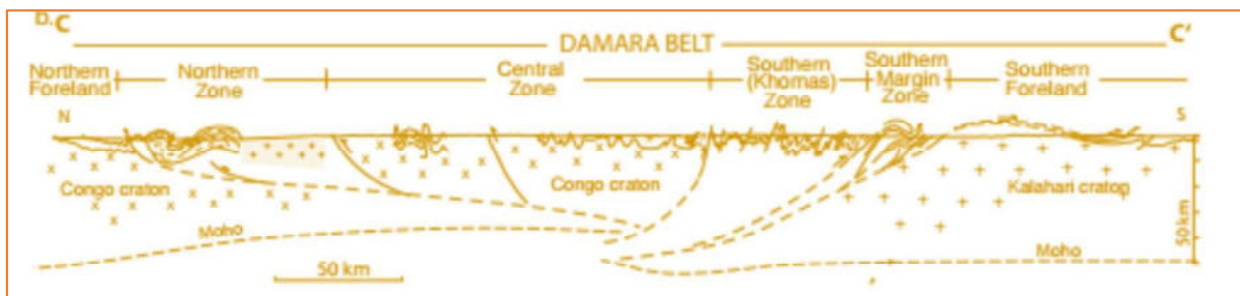


**Figure 9:** The percentage of hours in which the mean wind direction is from each of the four cardinal wind directions, excluding hours in which the mean wind speed is less than 1.6 kph. The lightly tinted areas at the boundaries are the percentage of hours spent in the implied intermediate directions (northeast, southeast, southwest, and northwest). (Weather Sparks, 2022)

All of Namibia, except for the coastal plains, experiences humidity of below 30% during the day for much of the year - in the north-east for about six months, the north-centre for seven months, the central area for eight months and in the south for all 12 months. High temperatures and low humidity result in high rates of evaporation. Evaporation rates from an open body of water inland of the coastal plains range from about 2000 mm to over 2660 mm per annum (Olivier, 1995).

### 3.1.2 Geology

The claims are located within the Central Zone (CZ) of the Damara orogenic belt (**Figure 10**), which is geologically characterised by rocks of Nosib and Swakop Groups mainly. According to (Miller, 2008), this zone has been thrust northward over the Otavi, Mulden and pre-Damara rocks along the Khorixas-Gaseneirob thrust. The Nosib Group in the area is present to the west of the claims, representing a tectonic window (fenster) where felsic pyroclastic rocks, ignimbrite, ash-flows and lavas strongly recrystallized of the upper Naauwpoort Formation are present. These units are overlain by the Swakop Group units of the Ugab Sub-group and Kuiseb Formation locally



**Figure 10:** Schematic illustration of the Damara belt (Gray, et al., 2008)

The Damara Orogen represents a Wilson cycle with extension during the breakup of Rodinia, spreading, sedimentary deposition, subduction and orogenesis during which metasediments and igneous rocks, including a large number of pegmatites, of the orogen formed (Prave, 1996; Trompette, 1997). Miller (1979, 1983, and 2008) divided the Damara Orogen into a

number of tectono-stratigraphic zones based on variations in structure, stratigraphy, igneous activity and metamorphic history. The various pegmatite belts roughly occur in different zones and therefore at different stratigraphic levels within the Damara Orogen.

The distribution of lithium in Namibia, which significantly occurs primarily within pegmatites. These Precambrian and early Namibian pegmatites are restricted to two different areas respectively, the Damara Orogen in north-central Namibia and the Namaqua Metamorphic Complex in southern Namibia (**Figure 11**). Of particular interest to proposed mining claims are nearer to the Helikon-Rubicon Belt / Pegmatite District – Erongo (Schneider 1992).

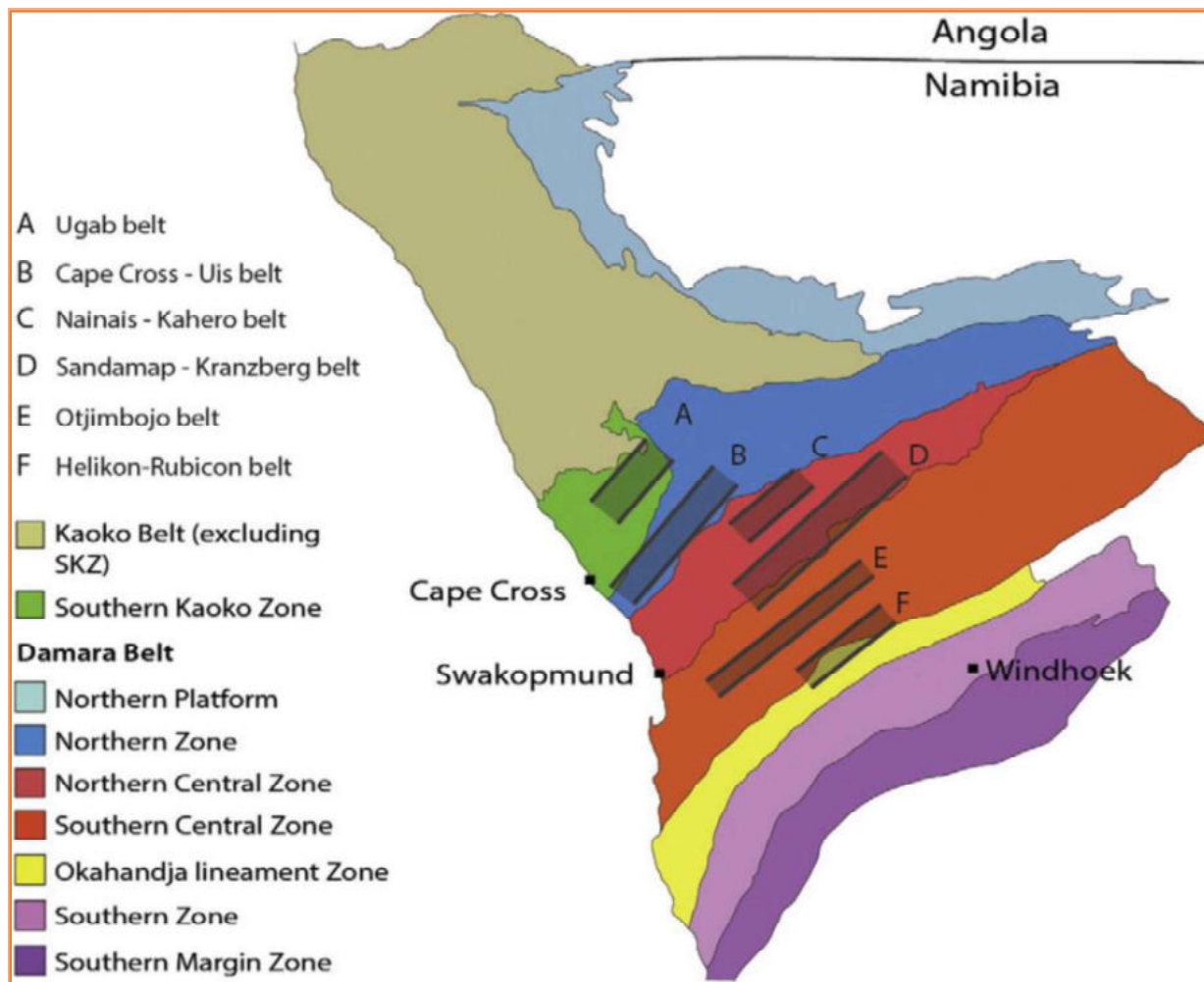


Figure 11: The tectono-stratigraphic zones of the Damara Orogen showing the approximate location of six of the main pegmatite belts (modified after Keller et al., 1999; Miller, 1983; Richards, 1986).

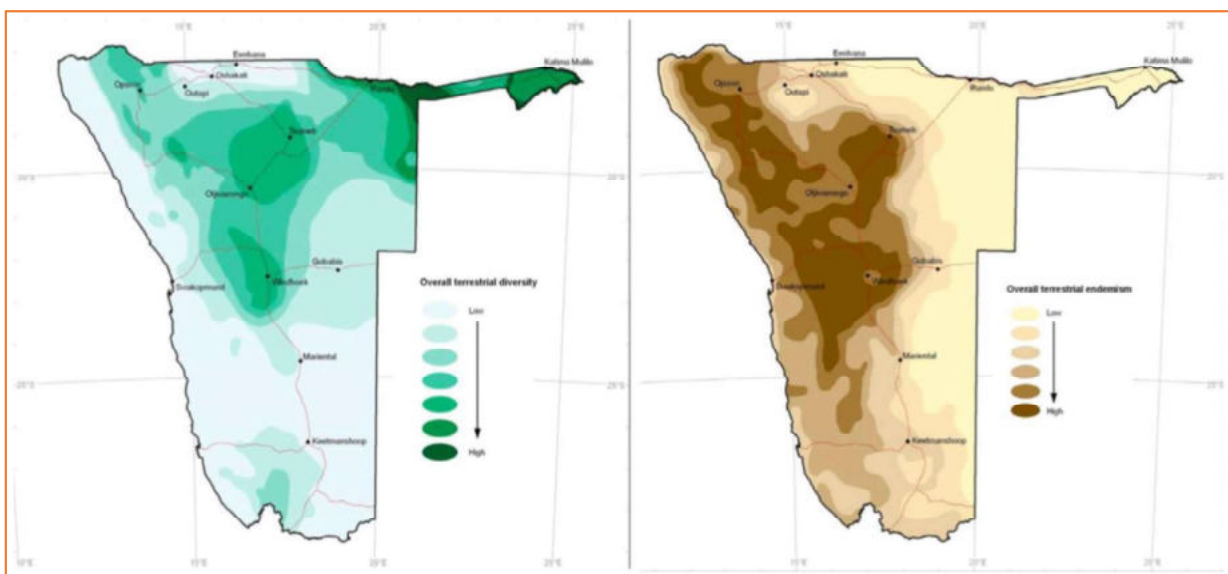
Topographically, for the purposes of this report, the geographical coordinates of Otjimbingwe are -22.350 deg latitude, 16.133 deg longitude, and 895 m elevation. The topography within 3 kilometers of Otjimbingwe contains only modest variations in elevation, with a maximum elevation change of 122 meters and an average elevation above sea level of 914 meters. Within 16 kilometers contains only modest variations in elevation (697 meters). Within 80 kilometers contains large variations in elevation (1,625 meters).

The area within 3 kilometers of Otjimbingwe is covered by bare soil (57%) and grassland (43%), within 16 kilometers by grassland (82%) and bare soil (18%), and within 80 kilometers by grassland (87%) and bare soil (12%).

### 3.1.3 Terrestrial Ecology and Sensitivity

Namibia's vegetation and biomes are classified into five major types, shown in. These are, the Namib Desert, Nama Karoo, Succulent Karoo and the Trees and Shrub savannah. The proposed project area fall mainly within the Desert biome and thus the fauna and flora key receptors of environmental impact particularly in case of trampling and vehicle tracks, potential poaching and ground contamination resulting from the project activities.

Overall terrestrial diversity of plants and animals is highest in the north-eastern parts of Namibia (**Figure 10**, green map indicator), because of the higher rainfall and presence of wetlands and forest habitats that are not found elsewhere in the country. Many species in the north are also more tropical, with ranges that extend into neighboring countries to the north and north-east. Species richness is highest in Namibia's mesic wetlands and woodlands in the vertebrate classes particularly (Barnard 1998).



**Figure 10:** Shows a comparison of overall terrestrial species diversity (green) against overall endemism (brown), with the most endemism observed within the central to north western region

However, due to its low productivity, the western desert arid zone is endowed with modest diversity of species compared to more mesic habitats. What is most distinctive about Namibian biodiversity is its high degree of endemism within the western (Erongo) region (Barnard 1998).

Unlike the concentration of biodiversity in the north-east, the great majority of Namibia's endemic species are found in the dry western and north-western Region (Barnard 1998, Mendelsohn et al. 2002). The patterns of endemism reflect the importance of arid habitats in supporting unique and specially adapted species.

The vegetation in the study area is diverse and includes a number of species endemic to the central and northern Namib (**Figure 11**) as well as various protected species such as *Gomphocarpus fruticosus* (milkweed), *Zygophyllum simplex* (simple *Zygophyllum*), *Zygophyllum stapffii* (dollar-bush), *Arthroerua leubnitziae* (pencil bush), *Monechma cleomoides* (Namib perdebos) and *Kleinia longiflora* (sjambok bush).

Every vegetation type supports at least one, more often several endemic or protected species. As a result of this, as well as the low recovery potential of the vegetation, there are no vegetation types of low sensitivity. Classified as highly sensitive are the granite and dolerite outcrop shrubland and their associated vegetation types in the vicinity, the camel thorn shrubland in the north-east of the study area, the tamarisk shrubland of the Erongo mountain landscape.

In birds, the greatest diversity of southern African endemics is centered on the arid savannah and Karoo biomes and extends into the escarpment (Brown et al. 1998). Highland areas of the country, including Waterberg, Khomas Hochland, Karas Mountains, Brandberg, inselbergs in the Sperrgebiet and the Karstveld are particularly important for many endemic plants (Mendelsohn et al. 2002).

### **3.1.4 Protected Terrestrial Areas**

Ecologically, the project area falls within the Tiseb Conservancy, one of the smallest conservancies in the Erongo Region. Incorporating the Erongo Mountains and western escarpment, the Erongo Mountain Nature Conservancy extends over approximately 200 000 hectares, encompassing one of the most environmentally diverse areas in Namibia, and including cultural artefacts such as rock paintings, rock engravings and prehistoric settlements.

Overall, the Erongo Region harbours high densities of leopard and brown hyaena. The members of the conservancy are committed to reintroducing species that formally inhabited the area, such as black-faced impala and black rhino. In terms of endemic species, the Erongo environment is one of Namibia's hotspots, as it hosts a vast array of endemic and near-endemic plant, reptile, bird and mammal species. These include the Angolan dwarf python, White-tailed Shrike, Hartlaub's Spurfowl, Ruppell's Parrot, Rockrunner and Hartmann's zebra. Rare species that have found refuge in the Erongo Mountains include the Peregrine Falcon and Booted Eagle. The striking Verreaux's Eagle can also be seen breeding in the mountains.

## **3.2 SOCIO-ECONOMICAL ENVIRONMENT**

### **3.2.1 Demographic Profile**

Until independence in 1990, the area was almost fully supported by a tin and tantalite mine operated by a South African company in Uis town. The latter provided essential jobs and infrastructure and many families moved to Uis to sustain their livelihoods. The mine however closed in 1990, leaving the community residing in the township with no alternative economic activity.

As a result, unemployment, particularly among the youth, and poverty sharply rose and access to basic infrastructure remained very limited. From the last available census data, 46 % of the labor force is now unemployed, 22 % of people of 15 years and above have never attended school, while 57 % of households have no toilet facility (NPC 2003). Apart from few local government positions, economic opportunities have become rare; households have



had to resort, as a source of income, to small scale farming, illegal mining and informal small businesses, but also importantly to pensions and cash remittances (Mosimane 2000).

With limited farming opportunities and the existence of unique cultural and natural resources that attracted a growing number of domestic and South African tourists since the beginning of the years 2000, tourism was increasingly seen as an opportunity to generate alternative critical income. Young people started selling semi-precious stones to tourists along the road and looked for any other income-generating activity based on local resources available (including small-scale mining).

### **3.2.2 Heritage and Culture Profile**

In Namibia, archaeological resources are often vulnerable to developmental and mining impacts. Typical sites do not only include those found in the mountains, hills and outcrops but also those generally found in the flat areas (Namib Desert) and or in riverbeds.

Some of these site might be obvious to some observer, such as rock art or historical mines. Others are quite ambiguous and might appear less significant than they are, such as pre-colonial stone features. This means that it is very difficult for mining projects to avoid damage to archaeological heritage sites if they have not been located, identified and made known during EIA process.

Therefore, given the nature, scope and scale of the proposed exploration activity and particularly that it entails minimum use mechanical equipment an archaeological specialist study was deemed not necessary although highly recommended for the next phase of the mine development projects.

Critically, the proponent is cautioned to at all time strictly adhere with the search and find procedure in accordance with the stipulations of the Namibian National Heritage Act (No. 27 of 2004) in the highly unlikely event that artifacts are found in the mining claims area. A search and find procedure (**Appendix C**) must be strictly followed in accordance with the stipulations of the Namibian National Heritage Act in the highly unlikely event that artefacts are found in the sand mining area.

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## 4. APPROACH TO EIA PROCESS AND PUBLIC PARTICIPATION

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This chapter presents the approach to the Environmental Scoping Assessment process, for the proposed Mr. Erich D. Petrus's exploration activities and gives particular attention to the legal context and guidelines applicable to this assessment. The assessment approach and the steps in the Public Participation component of this scoping report were undertaken in accordance with Regulations 29 and 30 of Government Notice No. 30 of 2012. Overall, this section highlights information including the approach to stakeholder engagement, identification of issues, overview of relevant legislation, and key principles and guidelines that provide the context for this scoping assessment process. Hence, in a nutshell, the purpose of the environmental assessment is to:

- Address issues that have been identified through the Scoping Process;
- Assess alternatives to the proposed activity in a comparative manner;
- Assess all identified impacts and determine the significance of each impact; and
- Recommend actions to avoid/mitigate negative impacts and enhance benefits.

### 4.1 OVERVIEW OF APPROACH ADPTED FOR COMPILING THE SCOPING AND EMP REPORTS

The objectives of the environmental scoping assessment are noted in Section 1 of this Report. Section 6 of this Scoping Report includes a summary of the findings, the overall conclusions and the recommendations. The Scoping Report was made available for a 30-day I&AP and authority review period, as outlined in the EMA Regulations of 2012. Although adverts were put in local **27 January – 02 February** and again **03 February – 09 February 2023**, and then in **The Villager** newspaper on the **25th January 2023** and **27th January 2023** in order to notify and inform the public of the proposed projects and invite I&APs to register, there were no particular responses or inputs received but registration by one I&AP (see **Appendix B** for detailed report).

As previously noted, the Scoping Report includes an Environmental Management Plan (EMP, **Appendix A**). The EMP is based broadly on global environmental management principles and embodies an approach of continual improvement and mitigation actions.

These are drawn primarily based on the identified potential impacts for both the construction and operational phases of Mr. Petrus's proposed operations. If the project components are decommissioned or re-developed, this will need to be done in accordance with the relevant environmental standards and clean-up / remediation requirements applicable at the time.

### 4.2 LEGAL CONTEXT FOR THIS EIA

In accordance with the provisions of the Environmental Impact Assessment (EIA) Regulations No. 30 of 2012 gazette and the Environmental Management Act, (EMA), 2007, (Act No. 7 of 2007), the activity to be undertaken by Mr. Erich D. Petrus may not be undertaken without an Environmental Clearance Certificate.

### 4.3 LEGISLATION AND GUIDELINES PERTINENT TO THIS ENVIRONMENTAL ASSESSMENT

As the main source of legislation, the Namibian constitution makes provision for the creation and enforcement of applicable legislation. In this context and in accordance with its constitution, Namibia has passed numerous laws (those of relevant to this project are listed in Table 2) intended to protect the natural environment and to mitigate adverse environmental impacts.

Namibia's policies provide the framework to the applicable legislation. Whilst policies do not often carry the same legal recognition as official statutes, policies can be and are used in providing support to legal interpretation when deciding cases. Below are several of the key legislations applicable to the governance of certain component / aspects of the proposed operation activity. Key acts and policies currently in force include:

- Namibia's Environmental Assessment (EIA) Policy for Sustainable Development and Environmental Conservation (1995)
- Environmental Management Act (No. 7 of 2007);
- Environmental Impact Assessment Regulations (Government Notice No. 30 of 2012)
- Namibia Agriculture Policy of 2015
- Namibia Vision 2030, and other national development plan e.g. Harambee Prosperity Plan
- Social Security Act, 1994 (Act No. 34 of 1994) and the Affirmative Action (Employment) Act, 1998 (Act No. 29 of 1998)

#### 4.3.1 Environmental Management Act No. 7 of 2007

The environmental management act No.7 of 2007 aims to promote the sustainable use of natural resources and provides the framework for the environmental and social impact assessment, demands precaution and mitigation of activities that may have negative impacts on the environment and provision for incidental matters. Furthermore, the act provides a list of activities that may not be undertaken without an environmental clearance certificate.

The purpose of the Environmental Management Act is:

- a) to ensure that people carefully consider the impact of developmental activities on the environment and in good time
- b) to ensure that all interested or affected people have a chance to participate in environmental assessments
- c) To ensure that the findings of environmental assessments are considered before any decisions are made about activities which might affect the environment see **Figure 12.**

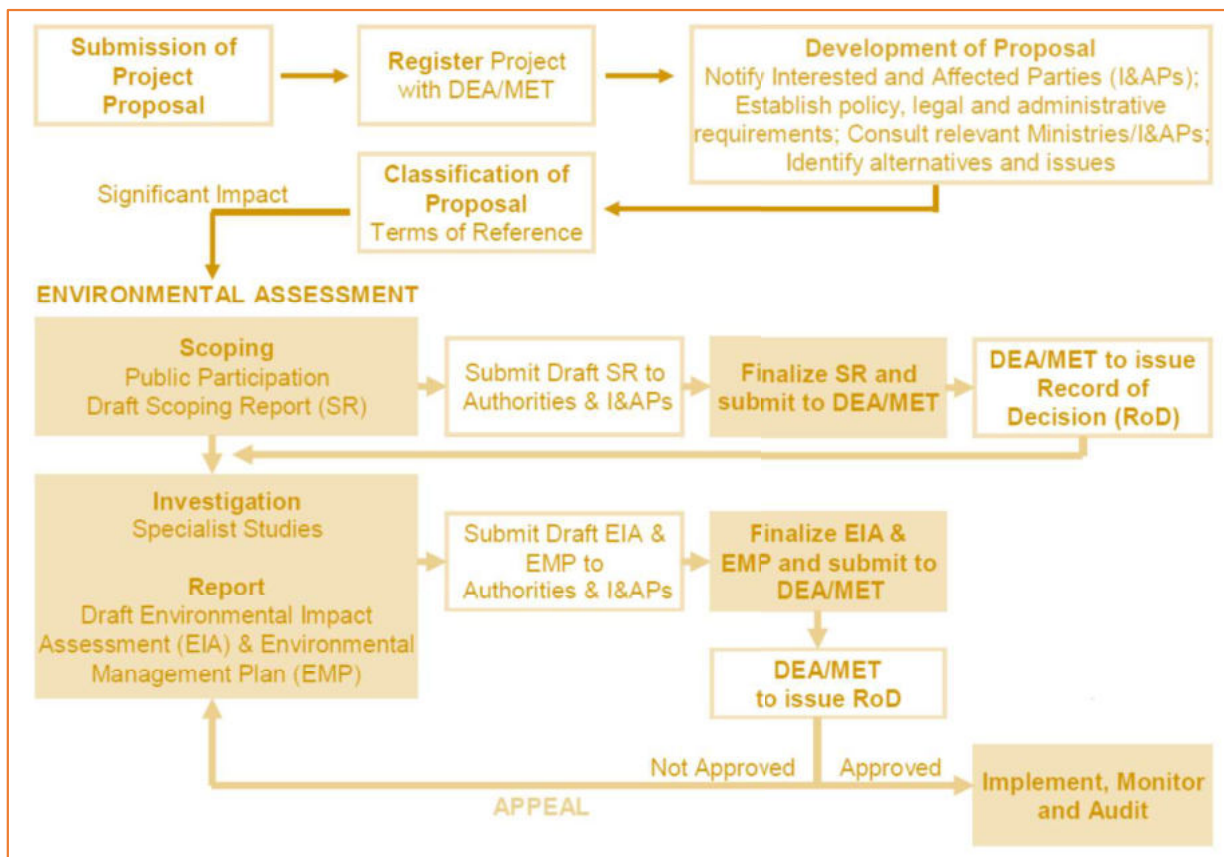


Figure 12: Illustration of the environmental assessment process in Namibia (Source: Risk Based Solution)

#### 4.3.2 Environmental Assessment Policy (1995)

The Environmental Assessment Policy for Sustainable development and Environmental Conservation emphasize the importance of environmental assessments as a key tool towards implementing integrated environmental management. Sets an obligation to Namibians to prioritize the protection of ecosystems and related ecological.

The policy subjects all developments to environmental assessment and provides guideline for the Environmental Assessment. The policy advocates that Environmental Assessment take due consideration of all potential impacts and processes mitigations measures should be incorporated in the project design and planning stages (as early as possible).

##### 4.3.12 Minerals Act

This Act No. 33 of 1992 provides a legal framework for regulating and governing all activities that explicitly entails the prospecting, exploration and mining of minerals within the boundaries of Namibia and the Ministry of Mine and Energy is the competent authority in this regard.

It also makes explicit reference to the protection and conservation of the natural environment by requiring for the development of an environmental impact assessment and management plan in which measures to avoid and or mitigate potential impacts relating to minerals development activities are clearly considered.

### 4.3.3 Other Legal Requirements and relevance to the proposed activity

In addition to the EMA and the Environmental Assessment Policy, there exist other regulatory frameworks that MDL must comply with. This is due to the supporting infrastructure that are needed to compliment the proposed logistics hub. As such, MDL will be required to obtain additional specific permits for the supporting infrastructure as listed in table 4 below. The process of obtaining the additional permits can be undertaken concurrently to the EIA process.

Furthermore, the proponent has the responsibility to ensure that the project activities conform to all other relevant legal documents and guidelines as listed in **Table 8** below).

*Table 8: Other relevant legislation and applicability thereof (Source: Risk Based Solution)*

Legislation	Relevance
Labour Act, 1992, (Act No. 6 of 1992) and Regulations Related to Health and Safety of Employees	<ul style="list-style-type: none"> <li>• Labour matters, rights and duties of employees.</li> <li>• Health and Safety of Employees Construction safety;</li> <li>• Electrical safety; Machinery safety;</li> <li>• Hazardous substances; Physical hazards and general provisions;</li> </ul>
Social Security Act, 1994 (Act No. 34 of 1994) and the Affirmative Action (Employment) Act, 1998 (Act No. 29 of 1998)	<ul style="list-style-type: none"> <li>• Establishment of the Social Security Commission</li> <li>• Administration of a pension and incidental matters fund – affirmative employment opportunities</li> </ul>
<b>The Forest Act</b>	<ul style="list-style-type: none"> <li>• Declaration of protected areas in terms of soils and water resources</li> <li>• Proclamation of protected species of plants and the conditions under which these plants can be disturbed, conserved, or cultivated.</li> </ul>
<b>Nature Conservation Amendment Act</b>	<ul style="list-style-type: none"> <li>• Declaration of protected areas and protected species.</li> </ul>
<b>National Heritage Act</b>	<ul style="list-style-type: none"> <li>• Protection and conservation of places and objectives of significance, as all archaeological and paleontological objects belong to the state</li> </ul>

### 4.3.4 Precautionary and Polluter Pays Principles

The Precautionary Principle is worldwide accepted when there is a lack of sufficient knowledge and information about proposed development possible threats to the environment. Hence if the anticipated impacts are greater, then precautionary approach is applied.

Equally, the Polluter Pays Principle ensures that the proponent takes responsibility of their actions. Hence in cases of pollution, the proponent bears the full responsibility and cost to clean up the environment.

#### 4.4 PRINCIPLES FOR PUBLIC PARTICIPATION / CONSULTATION

The PPP for this Scoping Process was driven by a stakeholder engagement process that includes inputs from authorities, I&APs and the project proponent. In respect to provisions of the EIA Regulations, “Public Consultation” means a process referred to in regulation 21, in which potential interested and affected parties are given an opportunity to comment on, or raise issues relevant to, specific matters. This stems from the requirement that people have a right to be informed about potential decisions that may affect them and that they must be afforded an opportunity to influence those decisions. Effective public participation also improves the ability of the Competent Authority (CA) to make informed decisions and results in improved decision-making as the view of all parties are considered.

Contrary, it is important to recognize and highlight two key aspects of public participation which must be considered at the outset:

- There are practical and financial limitations to the involvement of all individuals within a PPP. Hence, public participation aims to generate issues that are representative of societal sectors, not each individual. Consequently, the PPP is designed to be inclusive of a broad range of sectors relevant to the proposed activity.
- The PPP will aim to raise a diversity of perspectives and will not be designed to force consensus amongst I&APs. Certainly, diversity of opinion rather than consensus building is likely to enrich ultimate decision-making. Therefore, where possible, the PPP will aim to obtain an indication of trade-offs that all stakeholders (i.e. I&APs, technical specialists, the authorities and the development proponent) are willing to accept with regard to the ecological sustainability, social equity and economic growth associated with the project.

#### 4.5 PUBLIC PARTICIPATION PROCESS

The key steps and or approach adopted for this particular Scoping assessment has been confirmed with the DEA through the registration of the proposed activity / operations on their Online EA system.

All advertisements, notification letters and emails etc. served to notify the public and organs of state, on both the call for registration as I&APs and of the availability of the Scoping and EMP reports for an opportunity to comment or provide input on the reports. Despite the national Lockdown due to the COVID19 pandemic, which affected the possibility for public meetings, adverts were placed consecutively (at 14 days interval) in local newspapers **Confidente** newspaper on **27 January – 02 February** and again **03 February – 09 February 2023**, and then in **The Villager** newspaper on the **25th January 2023** and **27th January 2023** in order to notify and inform the public of the proposed projects and invite I&APs to register.

The correspondence sent to or received from I&APs and other competent authorities during the Scoping Phase were incorporated into the stakeholder engagement report appended to this report (**Appendix B**).

#### 4.6 AUTHORITY CONSULTATION DURING THE EIA PHASE

Authority consultation is integrated into the PPP, with additional one-on-one meetings held with the lead authorities, where necessary. A pre-application meeting was scheduled with the relevant competent authorities prior to the Lock-down, however were later cancelled. It is proposed that the Competent Authority (DEA) as well as other lead authorities be consulted as necessary and at various stages during the application review process of the DEA. During the Scoping phase, the following authorities were identified and consulted (see **Appendix C**) for the purpose of consultation:

#### 4.7 APPROACH TO IMPACT ASSESSMENT AND SPECIALIST STUDIES

Potential environmental impacts were identified through both desktop literature review and consultation with I&APs, regulatory authorities, specialist and Enviro-Leap Consulting. In case of social impacts, the assessment focused on third parties only (third parties include members of the public and other local and regional institutions) and did not assess health and safety impacts on workers because the assumption was made that these aspects are separately regulated by health and safety legislation, policies and standards.

The impacts are discussed under issue headings in this section. The discussion and impact assessment for each sub-section covers the construction, operational, decommissioning and closure phases where relevant. This is indicated in the table at the beginning of each sub-section. Included in the table is a list of project activities/infrastructure that could cause the potential impact per farming phase. The activities/infrastructure that are summarized in this chapter, link to the description of the proposed project (see Section 5 of the EIA report).

Mitigation measures to address the identified impacts are discussed in this section and included in more detail in the EMP report that is attached in **Appendix A**. In most cases (unless otherwise stated), these mitigation measures have been taken into account in the assessment of the significance of the mitigated impacts only.

Both the criteria used to assess the impacts and the method of determining the significance of the impacts is outlined in **Table 9**. This method complies with the method provided in the Namibian EIA Policy document and the draft EIA regulations. **Part A** provides the approach for determining impact consequence (combining severity, spatial scale and duration) and impact significance (the overall rating of the impact). Impact consequence and significance are determined from **Part B** and **C**. The interpretation of the impact significance is given in **Part D**. Both mitigated and unmitigated scenarios are considered for each impact.

**Table 9: Criteria for Assessing Impacts**

<b>PART A: DEFINITION AND CRITERIA</b>		
Definition of SIGNIFICANCE	Significance = consequence probability	
Definition of CONSEQUENCE	Consequence is a function of severity, spatial extent and duration	
Criteria for ranking of the SEVERITY/NATURE of environmental impacts	H	Substantial deterioration (death, illness or injury). Recommended level will often be violated. Vigorous community action. Irreplaceable loss of resources.
	M	Moderate/measurable deterioration (discomfort). Recommended level will occasionally be violated. Widespread complaints. Noticeable loss of resources.
	L	Minor deterioration (nuisance or minor deterioration). Change not measurable/will remain in the current range. Recommended level will never be violated. Sporadic complaints. Limited loss of resources.
	L+	Minor improvement. Change not measurable/will remain in the current range. Recommended level will never be violated. Sporadic complaints.
	M+	Moderate improvement. Will be within or better than the recommended level. No observed reaction.
	H+	Substantial improvement. Will be within or better than the recommended level. Favorable publicity.
Criteria for ranking the DURATION of impacts	L	Quickly reversible. Less than the project life. Short-term
	M	Reversible overtime. Life of the project. Medium-term
	H	Permanent beyond closure – Long-term.
Criteria for ranking the SPATIAL SCALE of Impacts	L	Localized-Within the site boundary.
	M	Fairly widespread–Beyond the site boundary. Local
	H	Widespread – Far beyond site boundary. Regional/national

**PART B: DETERMINING CONSEQUENCE**

**SEVERITY = L**

DURATION		H	Medium	Medium	Medium
Long-term		H	Medium	Medium	Medium
Medium term		M	Low	Low	Medium
Short-term		L	Low	Low	Medium

**SEVERITY = M**

DURATION		H	Medium	High	High
Long-term		H	Medium	High	High
Medium term		M	Medium	Medium	High
Short-term		L	Low	Medium	Medium

**SEVERITY = H**

DURATION		H	High	High	High
Long-term		H	High	High	High
Medium term		M	Medium	Medium	High
Short-term		L	Medium	Medium	High

	L	M	H
Localized Within site boundary			
Site			
Fairly widespread Beyond site boundary			
boundary			
Widespread Far beyond site boundary			
boundary			
<b>SPATIAL SCALE</b>			

**PART C: DETERMINING SIGNIFICANCE**

PROBABILITY (of exposure to impacts)	Definite/Continuous	H	Medium	Medium	High
	Possible/frequent	M	Medium	Medium	High
	Unlikely/seldom	L	Low	Low	Medium
			L	M	H
<b>CONSEQUENCE</b>					

**PART D: INTERPRETATION OF SIGNIFICANCE**

Significance	Decision guideline
High	It would influence the decision regardless of any possible mitigation.
Medium	It should have an influence on the decision unless it is mitigated.
Low	It will not have an influence on the decision.



\*H = high, M = medium and L = low and + denotes a positive impact.

This section outlines the assessment methodology and legal context for specialist studies, as recommended by the DEA 2006 Guideline on Assessment of Impacts. In addition to the above, the impact assessment methodology includes the following aspects:

Spatial extent – The size of the area that will be affected by the impact/risk:

- Site specific;
- Local (<10 km from site);
- Regional (<100 km of site);
- National or International (e.g. Greenhouse Gas emissions or migrant birds).

Consequence – The anticipated consequence of the risk/impact:

- Extreme (extreme alteration of natural systems, patterns or processes, i.e. where environmental functions and processes are altered such that they permanently cease);
- Severe (severe alteration of natural systems, patterns or processes, i.e. where environmental functions and processes are altered such that they temporarily or permanently cease);
- Substantial (substantial alteration of natural systems, patterns or processes, i.e. where environmental functions and processes are altered such that they temporarily or permanently cease);
- Moderate (notable alteration of natural systems, patterns or processes, i.e. where the environment continues to function but in a modified manner); or
- Slight (negligible alteration of natural systems, patterns or processes, i.e. where no natural systems/environmental functions, patterns, or processes are affected).

Duration – The timeframe during which the impact/risk will be experienced:

- Short term (less than 1 year);
- Medium term (1 to 10 years);
- Long term (the impact will cease after the operational life of the activity (i.e. the impact or risk will occur for the project duration)); or
- Permanent (mitigation will not occur in such a way or in such a time span that the impact can be considered transient (i.e. the impact will occur beyond the project decommissioning)).

Probability – The probability of the impact/risk occurring:

- Very likely or Likely;
- Unlikely or Very unlikely; and
- Extremely unlikely

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## 5. ASSESSMENT OF ALTERNATIVES AND IMPACTS

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### 5.1 ASSESSMENT OF IMPACTS AND MITIGATION

This chapter discusses the alternatives, as well as the selection process of the preferred alternatives that have been considered and assessed as part of the Scoping Phase. The 2012 EIA Regulations (GG4878) define “alternatives”, in relation to a proposed activity, “as different means of meeting the general purpose and requirements of the activity, which may include alternatives to the:

- property on which or location where the activity is proposed to be undertaken;
- type of activity to be undertaken;
- design or layout of the activity;
- technology to be used in the activity; or
- operational aspects of the activity; and
- Includes the option of not implementing the activity”.

The Scoping Report therefore provided a full description of the process followed to reach the proposed preferred activity, site and location within the site. It further includes the following as a minimum:

- The consideration of the no-go alternative as a baseline scenario;
- A comparison of the reasonable and feasible alternatives; and
- Providing a methodology for the elimination of an alternative.

#### 5.1.1 NO-GO ALTERNATIVE

The no-go alternative assumes that the proposed project will not go ahead i.e. the proposed Mr. Erich D. Petrus’s proposed mineral prospecting does not realize. This alternative entails that the operations would not drive any environmental change and result in no additional environmental impacts on the MINING CLAIMS site.

It favors the *status quo* or baseline against which other alternatives are compared and will be considered throughout the report. However, the likely negative environmental impacts of other current and future user that may still happen in the absence of the proposed activities includes: Natural dust and generation of particulate matter during windy event particularly resulting from other regional economic activities such as construction, mining and tourism, pollution and environmental degradation associated with current land use along and around the proposed project route and sites.

Therefore, in terms of the “No-go Alternative”, potential economic gains that may never be realized if the proposed project activities do not go-ahead include: loss in income for both the local community and the partnering investor, unemployment and the loss of socio-economic benefits derived from current and future mineral exploration and development opportunities. Most importantly, is the reduced regional integration in terms of trade and investment, loss of direct and indirect contracts and employment opportunities, export earnings, foreign direct and various taxes payable to the Government.

## 5.1.5 CONCLUDING STATEMENT ON ALTERNATIVES

Namibia's industrial ambition is articulated in Vision 2030, which stipulates that the country should be an industrialized nation with a high income by the year 2030. In terms of the production and export structure, Namibia aspires to build the bridge from producing and exporting predominantly primary commodities to offering value added and service-orientated products. The production and export structure would also be more diverse, enabling the economy to better withstand exogenous shocks.

Despite the limited capacity to process minerals locally, Namibia is considered the preferred nation of choice in terms of mining given its vast unexploited distribution of mineral resources. Alternative prospecting techniques and use equipment is recommended as far as enhancing environmental safety is concerned.

In case of social impacts, the assessment focused on third parties only (third parties include members of the public and other local and regional institutions) and did not assess health and safety impacts on workers because the assumption was made that these aspects are separately regulated by health and safety legislation, policies and standards.

The No-Action Alternative comparative assessment, suggests that environmental impacts of a future in which the proposed activities do not take place, may be good for the receiving environment because there will be no potential negative or positive environmental impacts associated with the proposed activities (mineral exploration).

## 5.2 ASSESSMENT OF IMPACTS AND MITIGATION

Mitigation measures to address the identified impacts are discussed in this section and included in more detail in the EMP report that is attached in **Appendix A**. In most cases (unless otherwise stated), these mitigation measures have been taken into account in the assessment of the significance of the mitigated impacts only

### 5.2.1 IMPACTS ON THE BIOPHYSICAL ENVIRONMENT

Potential impacts in respect to the Biophysical (**Table 7**) environment involves particularly the terrestrial environments and relate mainly to the mineral prospecting and mining activities in regard to sampling (drilling and or bulk –sampling).

Potential impacts in respect to the Biophysical environments (**Table 7 - 8**) involves, given that the proposed activity entails non-invasive and consumptive mining development activities but rather limited to prospecting presents mainly secondary potential impacts. Geological surveys and rock sampling, and desktop research creates opportunity for the project staff members to access otherwise reserved park areas and thus temptations for poaching and collection of natural resources. Details of the potential impacts are demonstrated in the following tables:

Table 7. Impact on the Biophysical Environment – MINING CLAIMS site Access and use of vehicles

Impact Event		Disturbances on Biodiversity				
Description	Off-road driving is a major concern, particularly with regard to uncontrolled use of 4x4 vehicles and quad-bikes. This leads to physical degradation and the destruction of unique habitats, especially sensitive biophysical environments					
Nature	Tracks leave scars that can remain for centuries, affecting the aesthetic qualities of the dunes and the surrounding gravel plains, reducing the attractiveness of the area as a recreational destination. Littering of the beaches and the desert due to increasing tourism is a general problem. Camping outside of designated areas occurs during peak holiday periods.					
Phases: Phases during which the project has implications of accessing the MINING CLAIMS area are highlighted below; Significance assessment was carried out on the use of access tracks which presents a short-term risk.						
Construction Phase	Operational Phase	Decommissioning Phase	Post Closure			
<ul style="list-style-type: none"> <li>No Construction envisaged at this stage</li> </ul>	<ul style="list-style-type: none"> <li>Accessing of MINING CLAIMS area for surveys and sampling with project vehicles</li> <li>Upgrading of access tracks (e.g. grading)</li> </ul>	N/A	N/A			
Severity	Taken together, the disturbances will have a minimum to medium severity given that limited number of vehicles will be used and no new access track will be created, these can be drastically minimized to very low with mitigation measures.					
Duration	The Significance of the potential impacts is very high given the project location i.e. near a protected area and within a town					
Spatial Scale	Low, localized if activities are restricted to the known pegmatite belts area within the MINING CLAIMS thus limiting potential impacts spatially					
Probability	Low to Medium, especially in respect to wildlife / livestock collision and poaching as project staff will be at all times accompanied by Game Guards					
Unmitigated	Severity	Duration	Spatial Scale	Consequence	Probability of Occurrence	Significance
	L-M	L	L	H	L	H
Mitigated	Severity	Duration	Spatial Scale	Consequence	Probability of Occurrence	Significance
	L	L	L	L	L	H
Conceptual Description of Mitigation Measures	<ul style="list-style-type: none"> <li>Strict compliance with the Park Management guidelines and EMP is recommended in respect to managing incidental events;</li> <li>Exploration activity must be limited to the pre-identified pegmatites belts within the MINING CLAIMS area</li> <li>Unless necessary and agreed with the Park management, no new access tracks shall be created and no lodging shall be allowed in sensitive zones</li> </ul>					

**Table 8. Impact on the Biophysical Environment – Sampling / trenching for geological sampling**

Impact Event	Disturbances on Biodiversity in respect to sampling and trenching activities					
Description	Should analyses by an analytical laboratory be positive, geological boreholes or trenches are drilled / dug and geological samples collected for further analysis. This will determine the depth of the potential mineralization. If necessary new access tracks to the drill sites will be created and drill pads will be cleared in which to set the rig. Two widely used sampling options may be adopted, these are the reverse circulation sampling and/or diamond-core sampling / trenching.					
Nature	<p>Depending on the scale of sampling / trenching (intensity), potential impacts relating to vegetation clearing for access tracks and drill transects may arise from the project activities. Consequential impacts therefore are:</p> <ul style="list-style-type: none"> <li>Noise from sampling machineries and potential spill of hydrocarbons</li> <li>Disturbance of habitats (protected plant species) and species displacement</li> <li>Potential littering with solid waste</li> </ul>					
<b>Phases:</b> Phases during which the project has implications of sampling / impacts apply are highlighted below; Significance assessment was carried out on the sampling / trenching phase which presents a long term risk.						
Construction Phase	Operational Phase	Decommissioning Phase		Post Closure		
<ul style="list-style-type: none"> <li>No Construction envisaged at this stage</li> </ul>	<ul style="list-style-type: none"> <li>Accessing of MINING CLAIMS area for surveys and sampling with project vehicles</li> <li>Upgrading of access tracks (e.g. grading)</li> </ul>	N/A		N/A		
Severity	Taken together, the disturbances will have a medium severity given that limited number of vehicles will be used and no new access track will be created, these can be drastically minimized to very low with mitigation measures.					
Duration	The Significance of the potential impacts is very high given the project location i.e. near a protected area and within a town					
Spatial Scale	Low, localized if activities are restricted to the known pegmatite belts area within the MINING CLAIMS area thus limiting potential impacts spatially					
Probability	Low to Medium, especially in respect to wildlife / livestock collision and poaching as project staff will be at all times accompanied by Game Guards					
Unmitigated	Severity	Duration	Spatial Scale	Consequence	Probability of Occurrence	Significance
	M	L	L	H	L	M
Mitigated	Severity	Duration	Spatial Scale	Consequence	Probability of Occurrence	Significance
	L	L	L	L	L	M
Conceptual Description of Mitigation Measures	<ul style="list-style-type: none"> <li>Strict compliance with the Forestry Act and Regulations in respect to vegetation clearing, Park Management guidelines and EMP is recommended in respect to managing incidental events;</li> <li>Exploration activity must be limited to the pre-identified pegmatites belts within the MINING CLAIMS area thus reducing the spatial impacts to key areas of the MINING CLAIMS</li> <li>Unless necessary and agreed with the park management, no new access tracks shall be created and no lodging shall be allowed in sensitive zones</li> <li>Temporary bins and spill kits must be provided to ensure that all waste material including hydrocarbons are well contained prior to final disposal at approved sites in either Usakos or Omaruru</li> <li>Unless in an emergency, no equipment (vehicles and drill rigs) should be serviced in the field thus preventing unnecessary spillage of hydrocarbons</li> </ul>					

**Table 9. Impact on the Biophysical Environment – Waste Management (Effluent, Solid and Hydrocarbons)**

Impact Event		Waste generation and disposal					
<b>Description</b>	Operational activities relating to mainly the lodging and to a lesser degree the actual geological surveying and sampling activities present an opportunity for the generation of both solid waste (litter material) and hydrocarbons (fuel and lubricants).						
<b>Nature</b>	<p>In general, prospecting activities generates very little domestic solid waste which includes but may not be limited to:</p> <ul style="list-style-type: none"> <li>• Litter materials i.e. plastic bags, cartons, food packages and</li> <li>• Effluents and sewer may only be generated in case where a base-camp is necessary and a bathroom with flushing toilets are used</li> <li>• Minor hydrocarbons spillage(fuels and lubricants), possible contamination of soils and groundwater, in case of hydrocarbon spillage mainly from maintenance of equipment and vehicles</li> </ul>						
<b>Phases:</b> Phases during which the project has implications of waste generation are highlighted below; Significance assessment was carried out on the sampling / trenching phase which requires on-site stays.							
<b>Construction Phase</b>	<b>Operational Phase</b>	<b>Decommissioning Phase</b>		<b>Post Closure</b>			
<ul style="list-style-type: none"> <li>• No Construction envisaged at this stage</li> </ul>	<ul style="list-style-type: none"> <li>• Lodging is envisaged at existing campsite / lodge within the park</li> </ul>	N/A		N/A			
<b>Severity</b>	Taken together, waste generation in respect to the proposed activities presents impacts that are of very-low severity as in general little is generated.						
<b>Duration</b>	The duration of the potential impacts is bound to the duration of the proposed operations thus short-term in nature						
<b>Spatial Scale</b>	Low, waste generation shall be limited mainly to the lodging areas and subject to property owners and thus not entirely influence by the proposed project						
<b>Probability</b>	Very Low, shall be limited mainly to the lodging areas and subject to property owners and thus not entirely influence by the proposed project						
<b>Unmitigated</b>	<b>Severity</b>	<b>Duration</b>	<b>Spatial Scale</b>	<b>Consequence</b>	<b>Probability of Occurrence</b>	<b>Significance</b>	
	L	L	L	M	L	L	
<b>Mitigated</b>	<b>Severity</b>	<b>Duration</b>	<b>Spatial Scale</b>	<b>Consequence</b>	<b>Probability of Occurrence</b>	<b>Significance</b>	
	L	L	L	L	L	L	
<b>Conceptual Description of Mitigation Measures</b>	<ul style="list-style-type: none"> <li>• Given that lodging is recommended to be at existing camp-sites and or lodges, this aspect shall be managed as part of the current property owners compliance requirements</li> <li>• In the field, hydrocarbon waste shall be contained (in spill kits) and stored in appropriate heavy-duty plastic cabbage , transported to the nearest waste-oil recycling / solid waste disposal facility in Usakos or Omaruru</li> <li>• A sufficient number of spill kits shall be acquired and strategically placed, particularly near every sampling site to ensure that timely response to any potential fuel and lubricant spills is conducted (should the project require any sampling activities to be undertaken). These shall include an on-site used oil disposal bin(s)</li> <li>• Equally, effluent waste shall be managed in compliance with the lodging host’s requirements, although during any sampling activities – temporary dry-pit toilet facility must be provided at every site.</li> </ul>						

## 5.2.2 IMPACTS ON THE SOCIO-ECONOMIC ENVIRONMENT

Table 10. Environmental Impact: Human Health and Safety

Impact Event	Disturbances to the social environments					
Description	During the exploration stage, social impacts are most likely to be minimal and often positive. At this stage, usually the level of interaction between project staff and or project equipment with the local community is significantly minimum and therefore potential health and safety risks very low. However, given the Covid-19 pandemic it is recommended that all protocol in this respect are observed throughout the exploration phase.					
Nature	The inter-migration of project staff in-and-out of the region may present potential risks of disease transmission particularly in respect to Covid-19 and other contagious diseases between the local community and project staff. The most significant impact in respect to health is the potential for increasing the strain on the already under capacitated local health services facility should project staff fall ill while in the field.					
Phases: Phases during which sources of social (health and safety) impacts apply are highlighted below;						
Construction Phase	Operational Phase	Decommissioning Phase		Post Closure		
N/A	<ul style="list-style-type: none"> <li>Use of the lodging and other social facilities, as well as other social interactions</li> </ul>	N/A		N/A		
Severity	In the unmitigated scenario, the potential risk for transmission of contagious / infectious diseases is High					
Duration	The Significance of the potential impacts is subject to the compliance with national health protocols, however given the minimal interaction of project staff and the local community impacts are classified as incidental and short-term.					
Spatial Scale	Medium, in case of near-miss incidents (were cases are not detected) the risk may be medium to high but localized if for instance project staff undergo prior testing for Covid-19 before coming for fieldwork.					
Probability	Low, especially given that there are clear guideline and protocols governing health and safety of both contagious diseases and if they are well observed					
Unmitigated	Severity	Duration	Spatial Scale	Consequence	Probability of Occurrence	Significance
	H	M	M	H	L	H
Mitigated	Severity	Duration	Spatial Scale	Consequence	Probability of Occurrence	Significance
	M-L	L	L	M	L	H
Conceptual Description of Mitigation Measures	<ul style="list-style-type: none"> <li>Strict compliance with the EMP is recommended in respect to managing incidental events;</li> <li>It is strictly advised that project staff ensures that in respect to Covid-19, are tested prior to venturing in the field (and carries a health certificate indicating a negative result, which is not older than 72 hours)</li> <li>Carry sufficient First Aid equipment to ensure that minor injuries reduces need to access local health facility and therefore minimizing potential strain on local services</li> <li>Strict compliance with national health protocols as and when directive are issued in respect to any disease outbreak and or recurring pandemics such as HIV / AIDS and Covid-19</li> <li>Strict ban on use of any toxic substances within and during the working environment must be prohibited and serious punitive actions taken against any transgressors is recommended.</li> </ul>					

**Table 11. Impact on the Social Environment – Air and Noise Pollution**

Impact Event		Disturbances to the social environment				
<b>Description</b>	Should analyses by an analytical laboratory be positive, geological boreholes or trenches are drilled / dug and geological samples collected for further analysis. This will determine the depth of the potential mineralization. If necessary new access tracks to the drill sites will be created and drill pads will be cleared in which to set the rig. Two widely used sampling options may be adopted, these are the reverse circulation sampling and/or diamond-core sampling, and alternatively trenches may be dug for sampling.					
<b>Nature</b>	Depending on the scale of sampling / trenching (intensity), potential noise impacts relating to the use of large vehicles such as a drill rig truck and or excavator may be generated. Consequential impacts therefore are: <ul style="list-style-type: none"> <li>Noise from sampling / trenching machineries may be anticipated</li> </ul>					
<b>Phases:</b> Phases during which sources of social (Air and Noise Pollution) impacts apply are highlighted below;						
<b>Construction Phase</b>	<b>Operational Phase</b>	<b>Decommissioning Phase</b>		<b>Post Closure</b>		
<ul style="list-style-type: none"> <li>Land preparation and setting-up of drill sites</li> <li>Setting-up Base-camp for project staff</li> </ul>	<ul style="list-style-type: none"> <li>Accessing of MINING CLAIMS area for surveys and sampling with project vehicles</li> <li>Upgrading of access tracks (e.g. grading)</li> </ul>	<ul style="list-style-type: none"> <li>Structure demolition and ground leveling activities</li> <li>Temporary lodging for decommissioning staff</li> </ul>		N/A		
<b>Severity</b>	Taken together, the disturbances will have a high severity in the unmitigated scenario. In the mitigated scenario, many of these disturbances can be prevented or mitigated to acceptable levels, which reduces the severity to low.					
<b>Duration</b>	The Significance of the potential impacts is subject to the proposed operation’s life-time, however the identified impact’s duration is incidental and short-term.					
<b>Spatial Scale</b>	Low, localized although cumulative as haulage along the designated routes may lead to increased traffic. The noise aspect is mainly limited to the feedlot facility site which far from residential areas.					
<b>Probability</b>	Very Low, the only noisy activities associated with the proposed operation are limited to the construction and decommissioning					
<b>Unmitigated</b>	<b>Severity</b>	<b>Duration</b>	<b>Spatial Scale</b>	<b>Consequence</b>	<b>Probability of Occurrence</b>	<b>Significance</b>
	L	L	L	M	L	H
<b>Mitigated</b>	<b>Severity</b>	<b>Duration</b>	<b>Spatial Scale</b>	<b>Consequence</b>	<b>Probability of Occurrence</b>	<b>Significance</b>
	L	L	L	L	L	H
<b>Conceptual Description of Mitigation Measures</b>	<ul style="list-style-type: none"> <li>Strict compliance with the EMP is recommended in respect to managing incidental events;</li> <li>Noise complaint register must be kept and maintained regularly with mitigation measures adopted accordingly.</li> <li>All excessive noise generating activities must be strictly carried out during the day between 08h00 (am) and 17h00 (pm) week days only.</li> <li>Conditions of the Environmental Clearance Certificate and Surface-use Agreement (with the relevant Traditional Authority and Park) must be accordingly adhere to.</li> <li>As much as possible, it is recommended that vehicles with the most minimum footprint are used such as smallest excavator and or portable drill rig (drawn on a trailer).</li> </ul>					



Table 12. Impact on the Social Environment – Culture, Heritage and Scenic values

Impact Event		Disturbances to the heritage and scenic value of the environment				
Description	The rapid on-ground survey and desktop review for cultural and heritage sites, reveals that generally there were low/no occurrence of known cultural heritage or archaeological sites, hence the assumption is that the occurrence of undiscovered sites within the MINING CLAIMS area is low.					
Nature	Any sites that did exist here would either have been discovered already during previous investigations (due to the accessibility of the site to archaeologists) or have been destroyed during previous exploration and mining operations and or other land-uses such farming and tourism undertaken in the area.					
Phases: Phases during which sources of social (cultural, heritage and scenic values) impacts apply are highlighted below;						
Construction Phase	Operational Phase	Decommissioning Phase	Post Closure			
<ul style="list-style-type: none"> <li>Land preparation and construction activities</li> <li>Temporary lodging for construction staff</li> </ul>	<ul style="list-style-type: none"> <li>Reconnaissance activities e.g. geological mapping, topographical and remote sensing mapping</li> </ul>	<ul style="list-style-type: none"> <li>Structure demolition and ground leveling activities</li> <li>Temporary lodging for decommissioning staff</li> </ul>	N/A			
Severity	Severity is Low, disturbances relating to field-based will be low with extremely unlikely probability of occurrence without mitigations					
Duration	The significance of the potential impacts is subject to the proposed operation's life-time (in this case short-term), hence potential impacts is incidental in nature					
Spatial Scale	Localized, although chances of damaging artifacts are very high when encountered, the probability of finding these on the MINING CLAIMS area are low and may be limited to certain rock outcrops and along river valleys.					
Probability	Very Low, the nature of operation significantly limits exploration activities to one known pegmatite belt that falls within the mining area.					
Unmitigated	Severity	Duration	Spatial Scale	Consequence	Probability of Occurrence	Significance
	L	L	M	H	L	H
Mitigated	Severity	Duration	Spatial Scale	Consequence	Probability of Occurrence	Significance
	L	L	L	H	L	M
Conceptual Description of Mitigation Measures	<ul style="list-style-type: none"> <li>Strict compliance with the EMP is recommended in respect to managing incidental events</li> <li>Contractors working on the site should be made aware that under the National Heritage Act, 2004 (Act No. 27 of 2004) any items protected under the definition of heritage found in the course of development should be reported to the National Heritage Council</li> <li>The chance finds procedure as outlined in the EMP must be implemented at all times, and.</li> <li>Detailed field survey should be carried out if suspected archaeological resources or major natural cavities / shelters have been unearthed during the proposed exploration and test mining operations.</li> <li>A stakeholder complaint register must be kept and maintained regularly with mitigation measures adopted accordingly, recording all concerns relating impacts of the proposed exploration activities on the cultural and scenic value of the environment which may be reported by interested and affected parties.</li> </ul>					

Table 13. Impact on the Economic Aspect

Impact Event	Disturbances on social and economic aspects					
Description	Potential economic gains that may never be realized if the proposed project activities does not go-ahead include: loss in potential alternative income for the town, unemployment and the loss of socio-economic benefits derived from future mining development opportunities.					
Nature	However, it is imperative that the community is made aware that a major possible impact of exploration is the unrealistic expectations about the development of a mine. It's important for local communities to bear in mind that most exploration activity will not advance to mine development.					
Phases: Phases during which sources of social (potential social and economic gain) impacts apply are highlighted below;						
Construction Phase	Operational Phase	Decommissioning Phase		Post Closure		
<ul style="list-style-type: none"> <li>Land preparation and construction activities</li> </ul>	<ul style="list-style-type: none"> <li>Use of the lodging and other social facilities, as well as other social interactions</li> <li>Potential Mine development</li> </ul>	<ul style="list-style-type: none"> <li>Structure demolition and ground leveling activities</li> </ul>		<ul style="list-style-type: none"> <li>Retrenchments, retirement and job losses due to closure</li> </ul>		
Severity	In the unmitigated scenario, this implies in the case where the activity take not take effect, no economic benefits shall realize hence, the severity in respect to unemployment shall be very high. However, with the implementation of the proposed operations, the severity of unemployment shall be reduced to medium.					
Duration	The Significance of the potential impacts is subject to the proposed operation's life-time, with a long-term potential					
Spatial Scale	Low, localized and only limited to the Usakos or Omaruru Settlement community					
Probability	Low – Medium, probability in respect to job creation on both the temporary ( during exploration) and long-term ( during Mine development and operation) phases					
Unmitigated	Severity	Duration	Spatial Scale	Consequence	Probability of Occurrence	Significance
	L-M	L	L	L	L	L
Mitigated	Severity	Duration	Spatial Scale	Consequence	Probability of Occurrence	Significance
	L	M+	M+	H+	H+	H+
Conceptual Description of Mitigation Measures	<ul style="list-style-type: none"> <li>It is critical that timely and continuous communication and dissemination of information with the local community is ensured to alleviate potential sense of social marginalization, drive gender equality and enhance the understanding and perception of the benefits associated with Mr. Erich D. Petrus Investment activities</li> <li>To enhance the positive impacts relating to marginal net benefits for the micro-economy (local residence of Usakos or Omaruru Settlement and Erongo at large) and national economy at larger, legislative provisions to Affirmative Action and Labour Welfare must be observed</li> <li>It is strictly recommended that Mr. Erich D. Petrus Investment negotiates and signs a Surface Use Agreement detailing aspects of conduct and benefit distribution with all key stakeholder i.e. Traditional Authority, Park and other Operators or support institutions e.g. NGOs / CSOs)</li> </ul>					

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## 6. CONCLUSIONS AND RECOMMENDATIONS

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### 6.1 CONCLUSIONS

Namibia is an up-and-coming source country for critical minerals, which are important for renewable energy technologies. The country has the potential to develop new mining projects for cobalt and lithium, and therefore it has in recent years seen great interest towards the exploration and development of mineral commodities by foreign investor.

There are thus, many companies engaged in the exploration and mining activities for various metals / minerals including InterContinental Mining Namibia. This creates opportunities that attracts international investment to support increased exploration activities particularly with an interest in finding lithium. Mr. Erich D. Petrus Investment, was presented an opportunity to undertaking an exploration programme in respect in respect to Base and Rare Metals, Dimension Stone, Industrial Minerals, Non-Nuclear Fuel Mineral and Precious Metals

While increased economic activities can stimulate demographic changes and alter social, economic and environmental practices in many ways. Adverse environmental and socio-economic impacts have become a major area of concern for the business community, their customers, and other key stakeholders. Therefore, to ensure that development activities are undertaken in an economic, social and environmental sound / sustainable manner, the Namibian Constitution and Environmental Management Act No. 7 of 2007 provides for an environmental assessment process.

A key consideration in respect to the proposed project alternatives, is that of MINING CLAIMS location / site particularly considering that it falls within a park environment and in proximity to the Tsiseb Conservancy. Primarily, the key objective in respect to conservancies or protected area is conservation of particularly wildlife, cultural / historical heritage and landscape scenic value. Hence, the pre-dominant land-use in these environments is usually non-consumptive and mainly in the form of tourism. However, tourism may have not proven to be most economically rewarding land-use option given the prolonged effects of natural disasters and pandemics. This has created an uncertainty which resulted in community in town looking beyond conservation for alternative income streams and thus increased mining activities are observed in communal conservancies.

In case of social impacts, the assessment focused on third parties only (third parties include members of the public and other local and regional institutions) and did not assess health and safety impacts on workers because the assumption was made that these aspects are separately regulated by health and safety legislation, policies and standards.

The No-Action Alternative comparative assessment, suggests that environmental impacts of a future in which the proposed activities do not take place, may be good for the receiving environment because there will be no potential negative or positive environmental impacts associated with the proposed activities (mineral prospecting).

Overall, potential impacts may vary in terms of scale (locality), magnitude and duration e.g. minor negative impacts in the form of visual intrusion, dust and noise pollution especially during the field-based activities i.e. sampling and or trenching.

Below is a summary of the likely positive impacts that have been assessed for the different phases of the proposed Mr. Erich D. Petrus Investment's mineral prospecting activities:

- Socio-economic development and capacity building through partnering with foreign operators / investors, skills transfer and training on the mining development sector shall be achieved (Likely impacts are high).
- Creation of employment opportunities and strengthening /expansion of SME business
- Consequential Infrastructure development e.g. development of a Mine should viable deposit be discovered.

The following is a summary of the likely negative impacts that have been assessed for the different phases of the existing sand mining project:

- Ambient Air Quality and Noise Pollution (Likely impacts are Low).
- Ecological and biodiversity loss (Likely impacts are localized and low).
- Health and safety (Overall likely impacts are low with the adoption and compliance of appropriate mitigation measures).
- Accidental Spill of Hazardous substance (Likely impacts are low with proper implementation of the environmental management plan in place).
- Cultural Heritage, Archaeological and Scenic value (Likely impacts are low with proper implementation of the environmental management plan in place).

## 6.2 RECOMMENDATIONS

Enviro-Leap environmental practitioner confidently recommends that the proposed project can proceed and should be authorized by the DEAF. The proposed operations is considered to have, overall low negative environmental impacts and potential for the enhancement of socio-economic benefits provided all protocols including the proposed mitigation measures are adhered to.

Based on this, it recommended that the proponent must upon obtaining their Environmental Clearance Certificate (ECC), implement all appropriate management and mitigation measures and monitoring requirements as stipulated in the Scoping Report and or as condition of the ECC. These measures must be undertaken to promote and uphold good practice environmental principles and adhere to relevant legislations by avoiding unacceptable impacts to the receiving environment.

## 6.3 STAKEHOLDER ENGAGEMENT AND MONITORING

It is important that channels of communication are maintained over the life-time of the proposed mineral prospecting project, and with all key stakeholders, members of the general public (including I&APs), as well as the local and traditional authorities, **Table 13** shows the stakeholders engagement recommendations.

Table 13: Actions relating to stakeholder communication

Issue	Management commitment	Phase
Development and maintenance of a Stakeholder engagement plan	On obtaining the Environmental Clearance Certificate and other relevant authorization it is recommended that the proponent undertakes a stakeholder engagement process to develop a Communication and Monitoring Plan for continuous reporting and feedback	All
Understanding who the stakeholders are	Maintain and update the stakeholder register, including stakeholders' needs and expectations. Ensure that all relevant stakeholder groups are included building on pre-identified and registered I&APs.	All
	A representative database would include all relevant local government, service providers and contractors, indigenous populations, local communities, Traditional Authorities (TAs), NGOs, shareholders, the investment sector, community-based organizations, suppliers and the media.	All
	Ensure that marginalized and vulnerable groups are also considered in the stakeholder communication process.	All
	Record partnerships as well as their roles, responsibilities, capacity and contribution to development.	All
Liaising with interested and affected parties at all phases in the mine life	Devise and implement a stakeholder communication and engagement strategy.	All
Responsibility	Mr. Erich D. Petrus Investment and Enviro-Leap Consulting (On-contract)	

A stakeholder engagement plan is an important tool in ensuring that a good working relationship is maintained between the proponent and the community within which the activities are undertaken. It is crucial that this plan is developed in the same transparent manner and approach as the environmental assessment, and that it remains a living document which allows the stakeholder to engage with throughout the duration of the proposed activity.

Equally, it must be at all time readily available on request to all interested and affected parties for review and must provide clear procedures for how and where it can be accessed.

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## **APPENDIX A: ENVIRONMENTAL MANGEMENT PLAN**

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### **OVERALL OBJECTIVES OF THE EMP**

The following overall environmental objectives have been set for the Mr. Erich D. Petrus Investment exploration and mining development project:

- To comply with national legislation and standards for the protection of the environment.
- To limit potential impacts on biodiversity through the minimization of the footprint (as far as practically possible) and the conservation of residual habitat within the mine area.
- To keep surrounding communities informed of farming activities through the implementation of forums for communication and constructive dialogue.
- To develop, implement and manage monitoring systems to ensure good environmental performance in respect of the following: ground and surface water, air quality, noise and vibration, biodiversity and rehabilitation.

### **KEEPING EMPS UP TO DATE**

This Environmental Management Plan (EMP) document is designed to meet legal requirements and avoid or minimize the impacts associated with the implementation of Mr. Erich D. Petrus Investment exploration and mining development. It is the intention that this EMP should be seen as a “living document” which will be amended during the operation, as the activities might change or new ones be introduced.

Should a listed activity(s) as defined in the Environmental Impact Assessment Regulations: Environmental Management Act, 2007 (Government Gazette No. 4878) be triggered (as a result of future modifications/changes at the mine), this EMP will be updated as a result of another EIA process as stipulated in the regulations.

## IMPACTS MANAGEMENT / MITIGATION MEASURES

Table 14. Impact on the Biophysical Environment – MINING CLAIMS site Access and use of vehicles

Issue	Management commitment	Phase
Understanding who the stakeholders are	<ul style="list-style-type: none"> <li>• Maintain and update the stakeholder register, including stakeholders' needs and expectations.</li> <li>• A representative database would include all relevant local government, service providers, indigenous populations, Traditional Authorities (TAs), NGOs or community-based organizations</li> <li>• Ensure that marginalized and vulnerable groups are also considered in the stakeholder communication process.</li> <li>• Record partnerships as well as their roles, responsibilities, capacity and contribution to development.</li> </ul>	All
Liaising with interested and affected parties at all phases in the mine life	Devise and implement a stakeholder communication and engagement strategy.	All
Responsibility	Mr. Erich D. Petrus Investment and Enviro-Leap Consulting (On contract basis)	

Table 15. Impact on the Biophysical Environment – MINING CLAIMS site Access and use of vehicles

Impact Event	Disturbances on Biodiversity in respect to access tracks	
Desired mitigation outcome	The objective of the mitigation in respect to impacts on biodiversity is to ensure that as much as possible, disturbance on biodiversity is avoided and prevented while the proposed prospecting activities is undertaken.	
Proposed Mitigation Measures	<ul style="list-style-type: none"> <li>• Strict compliance with the Park Management guidelines and EMP is recommended in respect to managing incidental events;</li> <li>• Exploration activity must be limited to the pre-identified pegmatites belts within the MINING CLAIMS area</li> <li>• Unless necessary and agreed with the park management, no new access tracks shall be created and no lodging shall be allowed in sensitive zones</li> </ul>	All
Responsibility	Mr. Erich D. Petrus Investment and Enviro-Leap Consulting (On contract basis)	



Table 16. Impact on the Biophysical Environment – Bulk sampling and ore extraction

Impact Event	Disturbances on Biodiversity in respect to sampling and trenching activities	
Desired mitigation outcome	The objective of the mitigation in respect to impacts on biodiversity is to ensure that as much as possible, disturbance particularly on wildlife (poaching) and flora (clearing / damage) species is reduced and or prevented.	
Proposed Mitigation Measures	<ul style="list-style-type: none"> <li>• Strict compliance with the Forestry Act and Regulations in respect to vegetation clearing, Park Management guidelines and EMP is recommended in respect to managing incidental events;</li> <li>• Should the proponent require clearing, removal and transplantation of any protected plant species – services of an appropriately qualified botanist / ecologists must be sought and relevant permissions obtained prior to any such activity being undertaken</li> <li>• A plant survey must be conducted and all protected species clearly marked and protected prior to setting-up any sampling site and or digging any trench for geological sampling</li> <li>• Exploration activity must be limited to the pre-identified pegmatites belts within the mining claims area thus reducing the spatial impacts to key areas of the mining claims</li> <li>• Unless necessary and agreed with the park management, no new access tracks shall be created and no lodging shall be allowed in sensitive zones</li> <li>• Temporary bins and spill kits must be provided to ensure that all waste material including hydrocarbons are well contained prior to final disposal at approved sites in either Usakos or Omaruru</li> <li>• Unless in an emergency, no equipment (vehicles and drill rigs) should be serviced in the field thus preventing unnecessary spillage of hydrocarbons</li> </ul>	All
Responsibility	Mr. Erich D. Petrus Investment and Enviro-Leap Consulting (On contract basis)	

## 5.2.2 IMPACTS ON THE SOCIO-ECONOMIC ENVIRONMENT

Table 8. Impact on the Biophysical Environment – Waste Management (Effluent, Solid and Hydrocarbons)

Impact Event	Waste generation and disposal	Phase
Desired mitigation outcome	The objective of the mitigation in respect to waste generation is to ensure that the best scenic value and integrity of the affected environment maintained and or enhanced by reducing chances of littering through proper use of waste management facilities.	
Proposed Mitigation Measures	<ul style="list-style-type: none"> <li>Environmental awareness is an important aspect of environmental management, therefore all project staff and service providers must be educated of the environmental compliance requirements and urged to comply accordingly on induction to the project site.</li> <li>Given that lodging is recommended to be at existing camp-sites and or lodges, this aspect shall be managed as part of the current property owners compliance requirements</li> <li>In the field, hydrocarbon waste shall be contained (in spill kits) and stored in appropriate heavy-duty plastic cabbage , transported to the nearest waste-oil recycling / solid waste disposal facility in Usakos or Omaruru</li> <li>A sufficient number of spill kits shall be acquired and strategically placed, particularly near every sampling site to ensure that timely response to any potential fuel and lubricant spills is conducted (should the project require any sampling activities to be undertaken). These shall include an on-site used oil disposal bin(s)</li> <li>Equally, effluent waste shall be managed in compliance with the lodging host’s requirements, although during any sampling activities – temporary dry-pit toilet facility must be provided at every site.</li> </ul>	All
Responsibility	Mr. Erich D. Petrus Investment and Enviro-Leap Consulting (On contract basis)	

Table 9. Environmental Impact: Human Health and Safety

Impact Event	Prevention and mitigation of any health and safety hazards / risks	Phase
Desired mitigation outcome	The objective of the mitigation in respect to health and safety hazards is to ensure that the health, safety and protection of both the project staff and community receive priority in terms of budgetary provision and compliance	
Proposed Mitigation Measures	<ul style="list-style-type: none"> <li>Strict compliance with the EMP is recommended in respect to managing incidental events;</li> <li>Carry sufficient First Aid equipment to ensure that minor injuries reduces need to access local health facility and therefore minimizing potential strain on local services</li> <li>Strict compliance with national health protocols as and when directive are issued in respect to any disease outbreak and or recurring pandemics such as HIV / AIDS and Corvid-19</li> <li>Strict ban on use of any toxic substances within and during the working environment must be prohibited</li> </ul>	All
Responsibility	Mr. Erich D. Petrus Investment and Enviro-Leap Consulting (On contract basis)	

**Table 10. Impact on the Social Environment – Air and Noise Pollution**

<b>Impact Event</b>	<b>Disturbances to the social environment</b>	<b>Phase</b>
<b>Desired mitigation outcome</b>	The objective of the mitigation in respect to ambient air quality and sense of place / noise and chance is to ensure that all possible receptors are identified and practical measures are put in place to reduce these impacts and or respond with appropriate mitigation to complaints	
<b>Proposed Mitigation Measures</b>	<ul style="list-style-type: none"> <li>• Strict compliance with the EMP is recommended in respect to managing incidental events;</li> <li>• Noise complaint register must be kept and maintained regularly with mitigation measures adopted accordingly.</li> <li>• All excessive noise generating activities must be strictly carried out during the day between 08h00 (am) and 17h00 (pm) week days only.</li> <li>• Conditions of the Environmental Clearance Certificate and Surface-use Agreement (with the relevant Traditional Authority and Town) must be accordingly adhere to.</li> <li>• As much as possible, it is recommended that vehicles with the most minimum footprint are used such as smallest excavator and or portable drill rig (drawn on a trailer).</li> </ul>	
<b>Responsibility</b>	Mr. Erich D. Petrus Investment and Enviro-Leap Consulting (On contract basis)	

**Table 11. Impact on the Social Environment – Culture, Heritage and Scenic values**

<b>Impact Event</b>	<b>Disturbances to the heritage and scenic value of the environment</b>	<b>Phase</b>
<b>Desired mitigation outcome</b>	The objective of the mitigation in respect to impacts on cultural and archaeological heritage integrity is to ensure that at all times, project staff are vigilant of the potential to intrude, disturb and or damage important artifacts and therefore must avoid wandering onto any protected and or sensitive known or identified site.	
<b>Proposed Mitigation Measures</b>	<ul style="list-style-type: none"> <li>• Strict compliance with the EMP is recommended in respect to managing incidental events</li> <li>• Contractors working on the site should be made aware that under the National Heritage Act, 2004 (Act No. 27 of 2004) any items protected under the definition of heritage found in the course of development should be reported to the National Heritage Council <ul style="list-style-type: none"> <li>• The chance finds procedure as outlined in the EMP must be implemented at all times, and.</li> <li>• Detailed field survey should be carried out if suspected archaeological resources or major natural cavities / shelters have been unearthed during the proposed exploration and test mining operations.</li> </ul> </li> </ul>	
<b>Responsibility</b>	Mr. Erich D. Petrus Investment and Enviro-Leap Consulting (On contract basis)	

Table 12. Impact on the Economic Aspect

Impact Event	Disturbances on social and economic aspects	Phase
Desired mitigation outcome	The objective of the mitigation in respect to economic impacts relating to the proposed activity, is to ensure that potential negative economic impacts on other and existing land-use are prevented, reduced and or mitigated and the positive ones enhanced.	
Proposed Mitigation Measures	<ul style="list-style-type: none"> <li>It is critical that timely and continuous communication and dissemination of information with the local community is ensured to alleviate potential sense of social marginalization, drive gender equality and enhance the understanding and perception of the benefits associated with Mr. Erich D. Petrus Investment’s activities</li> <li>To enhance the positive impacts relating to marginal net benefits for the micro-economy (local residence of Usakos or Omaruru Settlement and the region at large) and national economy at larger, legislative provisions to Affirmative Action and Labour Welfare must be observed</li> <li>It is strictly recommended that Mr. Erich D. Petrus Investment negotiates and signs a Surface Use Agreement detailing aspects of conduct and benefit distribution with all key stakeholder i.e. Traditional Authority, Park and other Operators or support institutions e.g. NGOs / CSOs)</li> </ul>	All
Responsibility	Mr. Erich D. Petrus Investment and Enviro-Leap Consulting (On contract basis)	

Table 13. Site Closure and Rehabilitation

Impact Event	Disturbances on social and economic aspects	Phase
Desired mitigation outcome	The Proponent will commit to establishing a rehabilitation plan as part of the mine closure plan. A conceptual mine closure plan with costing is under development must be compiled by InterContinental Mining in association with Enviro-Leap and forms part of the environmental compliance and monitoring programme.	
Proposed Mitigation Measures	<ul style="list-style-type: none"> <li>Mr. Erich D. Petrus Investment shall submit regular (bi-annual or annual Environmental Reports) to the relevant Ministry stating the exploration activities and environmental performance of the project.</li> <li>Staff of the MET or Ministry of Mines and Energy may at any time inspect the exploration area. Internal and external monitoring should involve InterContinental Mining’s safety and environmental officer and members of the MEFT.</li> <li>Should the decision be taken that the project is not economically viable the area will be rehabilitated. The rehabilitation measures that are set out in the Rehabilitation Plan (to be compiled and approved by MEFT) are binding to all personnel on site including the crew and contractors.</li> </ul>	Closure
Responsibility	Mr. Erich D. Petrus Investment and Enviro-Leap Consulting (On contract basis)	

# APPENDIX B: PUBLIC CONSULTATION

27 January - 02 February 2023

CONFIDENTE | *lifting the lid*

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## CONFIDENTE

## COASTAL & NORTHERN AREAS VACANCIES

Confidente Newspaper is an equal opportunity employer and is looking for a suitable candidate to fill the post of: **Marketing Personnel**

### Requirements

Must have a Marketing or Business Management Degree  
A minimum of 3 years or more experience in the Marketing field  
Have an understanding of Design and Media Production  
Must be computer literate

### Key Performance Area

- Overseeing marketing campaigns
- Tracking effectiveness of marketing campaigns
- Negotiating and liaising with third-party marketing agencies

- Develop new client relations with potential clients
- Maintain and service existing clients
- Work closely with Distribution team to ensure clients are serviced
- Work closely with Newspaper Editor
- Other duties as assigned by executive team

**NB:** Only shortlisted candidates will be contacted. Those meeting the above requirements can forward their written application and detailed CV's as well as relevant documents via email to [max@confidentenambiana.com.na](mailto:max@confidentenambiana.com.na)

**CLOSING DATE:** 02 February 2023

**CALL FOR REGISTRATION AS INTERESTED AND AFFECTED PARTIES**

**ENVIRONMENTAL ASSESSMENT FOR THE PROPOSED MINING CLAIMS ACTIVITIES IN RESPECT OF INDUSTRIAL MINERALS (MICA AND LITHIUM), AND SEMI-PRECIOUS STONES, ERONGO REGION**

**1. PROJECT SITE AND DESCRIPTION**

Mr. Erich Dennis Petrus, intends to apply to obtain an Environmental Clearance Certificate for seven proposed Mining Claims 73889-73895 in the Erongo Region. The key component of the proposed activity entails geological mapping and survey and small-scale mining activities. Access to the sampling or survey sites will be by existing tracks and on foot where vehicle access is limited.

**2. PUBLIC PARTICIPATION PROCESS**

EnviroLeap Consulting hereby invites all Interested and Affected Party (I & AP) to register and receive Environmental Assessment (EIA, Scoping and EMP) documents relating to the proposed project for their comments and input.

**3. COMMENTS AND QUERIES**

Interested and Affected Parties are herewith request to register by writing to us at the address below no later than **20 FEBRUARY 2023**.

**3. COMMENTS AND QUERIES**

Please register and direct all comments, queries to:  
Mr. Shadrack Tjamba, Environmental Assessment Practitioner  
Email: [eap.ngen@gmail.com](mailto:eap.ngen@gmail.com) - Cell: +264 81 622 9933

**ENVIROLEAP CONSULTING cc**  
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### NOTICE OF ENVIRONMENTAL IMPACT ASSESSMENT AND REZONING OF ERF 4369, OSHAKATI PROPER FROM SINGLE RESIDENTIAL WITH A DENSITY OF 1/300 TO BUSINESS WITH A BULK OF 1

Notice is hereby given to all Interested and Affected Parties (I & APs) that an application for the Environmental Clearance Certificate will be submitted to the Environmental Commissioner in terms of the Environmental Management Act (Act No. 7 of 2007) for the following activities.

**Title:** Rezoning of Erf 4369, Oshakati Proper from single residential with a density of 1/300 to business with a bulk of 1.

**Proponent:** Mrs. Ester Ndapewa Embanga

**EAP:** Green Gain Environmental Consultants cc

All I&APs are hereby invited to request background information Documents (BID) and send their comments to [eia@greengain.com.na](mailto:eia@greengain.com.na) on or before 16 February 2023

### REZONING NOTICE:

Notice is hereby given in terms of Regulation 10(1) of the Urban and Regional Planning Act, (Act No. 5 of 2018) that Hilaria Kevanhu under the supervision of Geraldine van Rooi, intends to apply on behalf of the registered owner of Erf 4369, Oshakati Proper for the:

- Rezoning of Erf 4369, Oshakati Proper from single residential with a density of 1/300 to business with a bulk of 1
- Consent to have flats on the property
- Consent to Commence with the Proposed Development / Land Use whilst rezoning is ongoing.

The rezoning of Erf 4369, Oshakati Proper would accord the owners of the property to increase the development potential of the erf and ensure that the mono-functionality of the surrounding neighbourhood is countered.

Take note that a similar notice of the intent to rezone, have been posted on site, the Government Gazette as well as on the Notice Board of the Oshakati Town Council. The consultation with neighbouring erf owners duly took place too.

Do take note too that any person objecting to the proposed rezoning as set out above may lodge such objection together with the grounds thereof with the Chief Executive Officer, Oshakati Town Council, Private Bag 5830 Oshakati and/or the applicant in writing within 14 working days of the publication of this notice. The last date for comments/ objections is thus 16 February 2023.

**Applicant:**  
Hilaria Kevanhu  
P O Box 793  
Swakopmund  
Mobile: +264 81 3236024  
E-mail: [hkskevanhu@gmail.com](mailto:hkskevanhu@gmail.com)

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**EXPLORATION ACTIVITIES ON ERF 4458, REGIONAL PARK, ERONGO REGION, SWAKOPMUND**

Notice is hereby given to all Interested and Affected Parties (I&APs), that an application for an Environmental Clearance Certificate will be submitted to the Competent Authority and the Ministry of Environment, Forestry and Tourism (MEFT) for the following activities.

**Project title:** Proposed exploration activities on EPL 4458.

**Project location:** Keishöhe area, Lüderitz District, Karas region

**Proponent:** Bony's Exploration (Pty) Ltd.

**Description:** The proponent intends to continue with exploration activities of base and rare metals, dimension stones, industrial minerals, and precious metals on the Keishöhe carbonate siding within EPL 4458 and located about 4km southeast of the old Keishöhe railway station, near the town of Aus. In terms of the Environmental Management Act 07 of 2007, the intended activities cannot be undertaken without an EIA study being carried out.

I&APs are hereby invited to register, request the Background Information Document (BID), attend the public meeting, and submit comments/inputs to [eia@greengain.com.na](mailto:eia@greengain.com.na) The last day to submit inputs is 10 February 2023.

The public and stakeholder meeting is scheduled as follows

**Green Gain Consultants**  
344 811 43 2927  
[info@greengain.com.na](mailto:info@greengain.com.na)  
<http://www.greengain.com.na>

**Venue:** Bahnhof Conference Center, Aus.  
**Date:** Monday, 30 January 2023  
**Time:** 14:00

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# CONFIDENTE

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Confidente Newspaper is an equal opportunity employer and is looking for a suitable candidate to fill the post of: Marketing Personnel

**Requirements**

- Must have a Marketing or Business Management Degree
- A minimum of 3 years or more experience in the Marketing field
- Have an understanding of Design and Media Production
- Must be computer literate

- Develop new client relations with potential clients
- Maintain and service existing clients
- Work closely with Distribution team to ensure clients are serviced
- Work closely with Newspaper Editor
- Other duties as assigned by executive team

**Key Performance Area**

- Overseeing marketing campaigns
- Tracking effectiveness of marketing campaigns
- Negotiating and liaising with third-party marketing agencies

NB: Only shortlisted candidates will be contacted. Those meeting the above requirements can forward their written application and detailed CVs as well as relevant documents via email to [mar@confidentenamibia.com](mailto:mar@confidentenamibia.com)

CLOSING DATE: 10 February 2023

CALL FOR REGISTRATION AS INTERESTED AND AFFECTED PARTIES

**ENVIRONMENTAL ASSESSMENT FOR THE PROPOSED MINING CLAIMS ACTIVITIES IN RESPECT OF INDUSTRIAL MINERALS (MICA AND LITHIUM), AND SEMI-PRECIOUS STONES, ERONGO REGION**

1. PROJECT SITE AND DESCRIPTION

Mr. Erich Dennis Petrus, intends to apply to obtain an Environmental Clearance Certificate for seven proposed Mining Claims 73889-73895 in the Erongo Region. The key component of the proposed activity entails geological mapping and survey and small-scale mining activities. Access to the sampling or survey sites will be by existing tracks and on foot where vehicle access is limited.

2. PUBLIC PARTICIPATION PROCESS

Enviro-Leap Consulting hereby invites all Interested and Affected Party (I & AP) to register and receive Environmental Assessment (BID, Scoping and EMP) documents relating to the proposed project for their comments and input.

3. COMMENTS AND QUERIES

Interested and Affected Parties are herewith request to register by writing to us at the address below no later than **20 FEBRUARY 2023**.

3. COMMENTS AND QUERIES

Please register and direct all comments, queries to:  
Mr. Shadrack Tjiramba, Environmental Assessment Practitioner  
Email: [eap.trigen@gmail.com](mailto:eap.trigen@gmail.com) - Cell: +264 81 622 9933

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CALL FOR REGISTRATION AS INTERESTED AND AFFECTED PARTIES

**ENVIRONMENTAL ASSESSMENT FOR THE PROPOSED MINERAL EXPLORATION ACTIVITIES IN RESPECT OF BASE AND RARE METALS, INDUSTRIAL MINERALS AND PRECIOUS METALS, ERONGO REGION**

1. PROJECT SITE AND DESCRIPTION

Ms. Ina Nelago Amupolo intends to apply to obtain an Environmental Clearance Certificate for the proposed mineral exploration activities on EPL 8949 in the Erongo Region. The key component of the proposed activity entails geological mapping and survey and small-scale mining activities. Access to the sampling or survey sites will be by existing tracks and on foot where vehicle access is limited.

2. PUBLIC PARTICIPATION PROCESS

Enviro-Leap Consulting hereby invites all Interested and Affected Party (I & AP) to register and receive Environmental Assessment (BID, Scoping and EMP) documents relating to the proposed project for their comments and input.

3. COMMENTS AND QUERIES

Interested and Affected Parties are herewith request to register by writing to us at the address below no later than **20 FEBRUARY 2023**.

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CALL FOR PUBLIC PARTICIPATION

**ENVIRONMENTAL IMPACT ASSESSMENT FOR PROPOSED SMALL SCALE MINING ON MINING CLAIMS (MCs: 74119 TO 74121, ERONGO REGION)**

This notice serves to inform interested and affected parties that an application for the environmental clearance certificate will be launched with the environmental commissioner in terms of the Environmental Impact Assessment Management Act (No.7 of 2007) and Environmental Regulations (GN 30 of 6 February 2012) for the proposed activity:

**Project:** Proposed small scale mining activities on three (3) Mining Claims 74119 to 74121.

**Location:** The project is located in Erongo Region, approximately 41 km SW of Us settlement, Dãures constituency, Erongo region, via C35 and D2342 from Us.

**Proponent:** Townland Investments (Pty) Ltd

**Project description:** The proponent intends to mine the following commodities on small scale: Base & Rare metals, Industrial Minerals and Semi-precious stones.

In accordance with Namibia's Environmental Management Act (No. 7 of 2007) and Environmental Regulations (GN 30 of 6 February 2012), all interested and affected parties (I&APs) are invited to register and submit comments, concerns and questions in writing to the emails given below on or before 24/02/2023. Public meeting date to be communicated to all registered interested and affected parties.

Tel: +264 85 761 4750

Email address: [info@minera-xplore.com](mailto:info@minera-xplore.com) or [frontdesk@minera-xplore.com](mailto:frontdesk@minera-xplore.com)

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**NATIONAL NEWS**
**Andrada Mining**

Historical drill hole information further indicates that the Proximal Pegmatites remain open-ended at depth, and accordingly, Andrada is embarking on a confirmatory drilling programme to improve the tin resource classification and to evaluate lithium and tantalum potential of the Proximal Pegmatites.

“The declaration of this inferred resource, using the historical drill data from the Uis mine, significantly advances the total Andrada mineral inventory towards management’s internal mineral resource target of at least 200-million tonnes of mineralisation,” said Andrada chief executive Anthony Viljoen.

“These additional pegmatites, together with the mineral resource at the V1/V2 orebody, provide an entire resource portfolio of approximately 128-million tonnes of ore with a gross combined content of 170 000 t of tin, making Andrada the owner of one of the largest tin assets globally,” Viljoen acclaims.

“Furthermore, through our demonstrated ability to rapidly and profitably scale up production at the existing operations at the Uis mine, we believe Andrada has the ability to compound the company’s economies of scale and position the company as one of the lowest cost tech-metal producers in the next five years,” he adds.

Viljoen says the existing mineral reserve, which is currently being mined, as well as the ongoing infill drilling programme over the entire mining licence, have also shown the potential of lithium mineralisation contained within the same pegmatites.

Andrada will be completing the work required to bring the lithium operation into production, as well as expanding the infill drilling programme to explore the opportunity that the lithium presents as a co-product revenue stream with the tin operation in the coming months.

**CALL FOR REGISTRATION AS INTERESTED AND AFFECTED PARTIES**
**ENVIRONMENTAL ASSESSMENT FOR THE PROPOSED MINING CLAIMS ACTIVITIES IN RESPECT OF INDUSTRIAL MINERALS (MICA AND LITHIUM), AND SEMI-PRECIOUS STONES, ERONGO REGION**
**1. PROJECT SITE AND DESCRIPTION**

Mr. Erich Dennis Petrus, intends to apply to obtain an Environmental Clearance Certificate for seven proposed Mining Claims 73889-73895 in the Erongo Region. The key component of the proposed activity entails geological mapping and survey and small-scale mining activities. Access to the sampling or survey sites will be by existing tracks and on foot where vehicle access is limited.

**2. PUBLIC PARTICIPATION PROCESS**

Enviro-Leap Consulting hereby invites all Interested and Affected Party (I & AP) to register and receive Environmental Assessment (BID, Scoping and EMP) documents relating to the proposed project for their comments and input.

**3. COMMENTS AND QUERIES**

Interested and Affected Parties are herewith request to register by writing to us at the address below no later than **20 FEBRUARY 2023**.

**3. COMMENTS AND QUERIES**

Please register and direct all comments, queries to:  
 Mr. Shadrack Tjiramba, Environmental Assessment Practitioner  
 Email: [eap.trigen@gmail.com](mailto:eap.trigen@gmail.com) - Cell: +264 81 622 9933


**CALL FOR REGISTRATION AS INTERESTED AND AFFECTED PARTIES**
**ENVIRONMENTAL ASSESSMENT FOR THE PROPOSED MINERAL EXPLORATION ACTIVITIES IN RESPECT OF BASE AND RARE METALS, INDUSTRIAL MINERALS AND PRECIOUS METALS, ERONGO REGION**
**1. PROJECT SITE AND DESCRIPTION**

Ms. lina Nelago Amupolo intends to apply to obtain an Environmental Clearance Certificate for the proposed mineral exploration activities on EPL 8949 in the Erongo Region. The key component of the proposed activity entails geological mapping and survey and small-scale mining activities. Access to the sampling or survey sites will be by existing tracks and on foot where vehicle access is limited.

**2. PUBLIC PARTICIPATION PROCESS**

Enviro-Leap Consulting hereby invites all Interested and Affected Party (I & AP) to register and receive Environmental Assessment (BID, Scoping and EMP) documents relating to the proposed project for their comments and input.

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**NATIONAL NEWS**

**Cumulation**

and the product shall be deemed to have originated in the state party where the final processing or manufacturing takes place.

As originating in the AfCFTA state party, and if the product to be traded needs to be exported temporarily outside the Free Trade Area, for it to retain the AfCFTA origin the product should meet certain criteria.

The product should not undergo further production or any other operation outside the territories of the member country, other than unloading, reloading, or any other operation necessary to preserve it in good condition, or to transport the product to the territory of a state party; and remains under customs control while outside the territories of the state parties.

The same provisions regulate a return of an originating product that was exported from a state party to a third party.

It shall be considered as non-originating unless it can be proven to the satisfaction of the customs authorities that the returning product is the same as that which was exported; and has not undergone any operation beyond that which was necessary to preserve it in good condition.

In terms of paragraph 2 of Article 23 of the Protocol on Trade in Goods as read with Paragraph 1 of Article 9, products produced in Special Economic Arrangement / Zone (SEZ) qualify for preferential tariff treatment if they meet the rules of origin requirements specified in Annex 2.

This means if Namibia expedites the regulatory framework of its Sustainable Special Economic Zones, and operationalises its own time- it could aid the country's competitiveness.

**CRITERIA FOR AFCFTA PREFERENTIAL TARIFFS**

AfCFTA products originating in a state party shall, on importation into another State Party, benefit from the AfCFTA preferential treatment upon submission of certain proof of origin.

A Certificate of Origin, whether in hard or electronic copy, issuance and acceptance of electronic Certificate of Origin shall be per each State Party's national legislation.

Or the Origin Declaration given by the exporter on an invoice, a delivery note or any other commercial document which describes the products concerned in sufficient detail to enable them to be identified.

Proof of origin shall be prepared and submitted to the Customs Authorities of the importing State Party in any of the AU official languages and in accordance with the procedures applicable in that State Party.

They said authorities may require a translation of such proof of origin.

A Certificate of Origin shall be issued by the Designated Competent Authority of the exporting State Party on application having been made in writing by the exporter or, under the exporter's responsibility, by the authorised representative.

The secretariat has also noted that the effective implementation of the AfCFTA Rules of Origin by the States Parties requires the issuing of Certificates of Origin and the verification of these Certificates.

**Email: erastus@thevillager.com.na**

**CALL FOR REGISTRATION AS INTERESTED AND AFFECTED PARTIES**

**ENVIRONMENTAL ASSESSMENT FOR THE PROPOSED MINING CLAIMS ACTIVITIES IN RESPECT OF INDUSTRIAL MINERALS (MICA AND LITHIUM), AND SEMI-PRECIOUS STONES, ERONGO REGION**

**1. PROJECT SITE AND DESCRIPTION**

Mr. Erich Dennis Petrus, intends to apply to obtain an Environmental Clearance Certificate for seven proposed Mining Claims 73889-73895 in the Erongo Region. The key component of the proposed activity entails geological mapping and survey and small-scale mining activities. Access to the sampling or survey sites will be by existing tracks and on foot where vehicle access is limited.

**2. PUBLIC PARTICIPATION PROCESS**

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**ENVIROLEAP CONSULTING** cc  
...if you register better you know what you're doing.  
P. O. Box 25824, Windhoek | +264 81 232 6843 | [eap.trigen@gmail.com](mailto:eap.trigen@gmail.com)



**Fwd: The proposed mining claims activities in respect of industrial minerals (mica and lithium), and semi-precious stones, Erongo region**



Vilho Mtuleni <eap.trigen@gmail.com>

2023/02/26 11:09



Save all attachments



EDP BID\_ECC Application-MC...  
911,08 KB



EDP BID\_ECC Application-MCs...  
916,23 KB

Sent from [Outlook for Android](#)

**From:** Vilho Mtuleni <eap.trigen@gmail.com>

**Sent:** Friday, February 17, 2023 6:25:07 PM

**To:** lipinge Ndelimona <ndeliimonachox@gmail.com>

**Subject:** Re: The proposed mining claims activities in respect of industrial minerals (mica and lithium), and semi-precious stones, Erongo region

As with previous mail, herewith the other BIDs.

Sent from [Outlook for Android](#)

**From:** lipinge Ndelimona <ndeliimonachox@gmail.com>

**Sent:** Wednesday, February 15, 2023 2:54:46 AM

**To:** eap.trigen@gmail.com <eap.trigen@gmail.com>

**Subject:** The proposed mining claims activities in respect of industrial minerals (mica and lithium), and semi-precious stones, Erongo region

Dear Enviroleap Consulting CC

I hereby request to be registered as an I&AP for the EIA:

-The proposed mining claims (73889-73895) activities in respect of industrial minerals (mica and lithium), and semi-precious stones, Erongo region, as issued in your public notices in the Confidante newspaper between 3-9 February 2023. Please would you also forward me the BID, Scoping, EMP, and the Map (kmz) of the area under the mining claims

Regards

Nelimona lipinge

Namibian Environment and Wildlife Society

**Fwd: The proposed mining claims activities in respect of industrial minerals (mica and lithium), and semi-precious stones, Erongo region**



Vilho Mtuleni <eap.trigen@gmail.com>

2023/03/02 10:30



EDP EIA (MCs 73889-94)\_Print...  
6,89 MB

Sent from [Outlook for Android](#)

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**From:** Vilho Mtuleni <eap.trigen@gmail.com>

**Sent:** Thursday, March 2, 2023 10:23:58 AM

**To:** lipinge Ndelimona <ndelimonachox@gmail.com>

**Subject:** Re: The proposed mining claims activities in respect of industrial minerals (mica and lithium), and semi-precious stones, Erongo region

Dear ipeinge,

Herewith, as registered I&AP, kindly find attached the Scoping Report and EMP for the proposed MC 73889-94 in the vicinity of Otjimbingwe.

Please review and provide us with comments and/or inputs no later than 10 March 2023 after which we shall incorporate and respond to it prior to submission to the office of Environmental Commissioner.

Regards

Sent from [Outlook for Android](#)

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**From:** Vilho Mtuleni <eap.trigen@gmail.com>

**Sent:** Friday, 17 February 2023, 18:25

**To:** lipinge Ndelimona <ndelimonachox@gmail.com>

**Subject:** Re: The proposed mining claims activities in respect of industrial minerals (mica and lithium), and semi-precious stones, Erongo region

As with previous mail, herewith the other BIDs.

Sent from [Outlook for Android](#)

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**From:** lipinge Ndelimona <ndelimonachox@gmail.com>

**Sent:** Wednesday, February 15, 2023 2:54:46 AM

**To:** eap.trigen@gmail.com <eap.trigen@gmail.com>

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Nelimona lipinge

Namibian Environment and Wildlife Society

## Fwd: I&AP;s



Vilho Mtuleni <eap.trigen@gmail.com>

2023/02/26 11:09



Save all attachments



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911,08 KB



EDP BID\_ECC Application-MCs...  
916,23 KB

Sent from [Outlook for Android](#)

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**From:** Vilho Mtuleni <eap.trigen@gmail.com>

**Sent:** Friday, February 17, 2023 6:26:02 PM

**To:** Gotty Gaoseb <ggaoseb@gmail.com>

**Subject:** Re: I&AP;s

As with the previous mail, herewith the other BIDs.

Sent from [Outlook for Android](#)

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**From:** Gotty Gaoseb <ggaoseb@gmail.com>

**Sent:** Thursday, February 16, 2023 11:35:05 AM

**To:** eap.trigen@gmail.com <eap.trigen@gmail.com>

**Subject:** I&AP;s

Will you kindly register me on your mailing list for EPLs'

73889-73895 and EPL 8979

Thank you

Gotty Gaoseb

Fwd: I&AP;s



Vilho Mtuleni <eap.trigen@gmail.com>

2023/03/02 10:31



EDP EIA (MCs 73889-94)\_Print...  
6,89 MB

Sent from [Outlook for Android](#)

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**From:** Vilho Mtuleni <eap.trigen@gmail.com>  
**Sent:** Thursday, March 2, 2023 10:22:08 AM  
**To:** Gotty Gaoseb <ggaoseb@gmail.com>  
**Subject:** Re: I&AP;s

Dear Gotty,

Herewith, as registered I&AP, kindly find attached the Scoping Report and EMP for the proposed MC 73889-94 in the vicinity of Otjimbingwe.

Please review and provide us with comments and or inputs no later than 10 March 2023 after which we shall incorporate and respond to it prior to submission to the office of Environmental Commissioner.

Regards

Sent from [Outlook for Android](#)

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**From:** Vilho Mtuleni <eap.trigen@gmail.com>  
**Sent:** Friday, February 17, 2023 6:26:02 PM  
**To:** Gotty Gaoseb <ggaoseb@gmail.com>  
**Subject:** Re: I&AP;s

As with the previous mail, herewith the other BIDs.

Sent from [Outlook for Android](#)

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**Sent:** Thursday, February 16, 2023 11:35:05 AM  
**To:** eap.trigen@gmail.com <eap.trigen@gmail.com>  
**Subject:** I&AP;s

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73889-73895 and EPL 8979

Thank you

Gotty Gaoseb

# RESUME OF EAP

...a leap towards better environmental compliance.

## PROFESSIONAL PROFILE

**Mr. SHADRACK TJIRAMBA**  
Research and Environmental Management Specialist

ID Number :	80011910445	EMAIL:	<a href="mailto:eap.trigen@gmail.com">eap.trigen@gmail.com</a>
Country of Residence :	Namibia	Cell:	+264-816229933
Nationality:	Namibian		

## PROFESSIONAL OVERVIEW

Experience Internationally:

Countries worked: Namibia, South Africa.

Languages:

English (*fluently written, spoken and read*);  
Otjiherero (*fluently spoken, written and read*)  
Afrikaans (*well spoken, fairly written and read*),

## ACADEMIC QUALIFICATIONS:

2009	The University Western Cape	Post-Graduate Diploma Sustainable Land Management (NQA Level 8) Sustainable Development, Resource Economics, 2009), South Africa
2007	University of South Africa (UNISA)	Bachelor of Laws (LLB)
2005	Polytechnic of Namibia	B-Tech Land Management, 2005

## EMPLOYMENT RECORD:

May 2020-Current: Enviro-Leap Consulting Cc  
Position: Lead Consultant Environmental Management

- Compile and review environmental assessment reports (environmental scoping and management plans (EMP)) for our clients in accordance with the requirements of the Environmental Management Act, No.7 of 2007 and its regulations of 2012
- Compile and review environmental policies and audits
- Reviewed and updated the Solid Waste Management Policy for Dundee Metals Mining
- Conduct environmental compliance inspections and audits
- Facilitate stakeholder engagement
- Coordinate closure and rehabilitation of development projects, such as mining sites, hazardous substance spill sites
- Prepared training manuals and facilitated workshops for Communal Land Boards

August 2015 – July 2018 (fixed-term 3 years)

Position: Project Coordinator-Basket Fund, GIZ (Deutsche Gesellschaft Fur Internationale) Responsibilities:

- Coordinate project activities in the Omaheke and Otjozondjupa Region's
- Provide technical expertise/advise to various regional councils, land boards, traditional authorities, local level planning committees
- Coordinate the processes of revising and developing the Namibian environmental legislations (plans, strategies, regulations and Act amendments), as well as dissemination of information on these tools
- Prepare tender documents
- Coordinate project procurement needs in line with GIZ procurement policies.
- Financial reporting in line with financial guidelines for grant agreement GIZ
- Coordinate, manage the planning and implementation of project consultants' key performance areas.
- Supervise project staff and resource allocation
- Reporting in line with donor requirements

 O. Box 25874, Windhoek  +264 81 622 9933  [eap.trigen@gmail.com](mailto:eap.trigen@gmail.com)

**January 2019 – June 2019**

**Position: Social Policy Consultant – Gender Mainstreaming: Benguela Convention Commission. Responsibilities:**

- Conducted and compiled a draft Situation Analysis Report, summarizing the findings of desk review, gender survey through the field mission and interviews
- Compiled a draft Action Plan for BCLME III Project and Gender Policy for BCC
- Hosted and facilitated a situation analysis findings validation workshop
- Produced final Situation Analysis Report, Gender Action Plan for BCLME III Project, including a proposed gender-responsive Project Results Framework with gender-responsive outputs, sex- disaggregated indicators, baseline and targets. Gender Policy for BCC

**August 2011 to Dec 2012**

**Project Coordinator-MCA Agriculture & Environment:**

- Managed the Millennium Challenge Accounts Namibia Agriculture and Environment project's activities.
- Co-Developed, implemented and monitored local-level integrated activities and annual work plans for the CBNRM.
- Undertook and provided training and technical support to the targeted conservancies as per the objectives of the CBNRM
- Ensured project compliance with donor requirements through production of and submission of technical reports according to Donor procedures trainings for land management for farmers

**February 2004 – March 2009**

**Researcher: Land, Environment and Development Project-Legal Assistance Centre. June 2006 – November 2009**

- Assist with desktop and field research on land, environmental and urban housing (informal settlements).
- Assist in the compilation of research questionnaires
- Conduct interviews
- Assist with project administration
- Liaise with stakeholders NGO's, Government Agencies, Farmer's Associations, Ministry of Environment
- Draft research reports

**CERTIFICATION**

I, the undersigned, Shadrack Tjiramba, hereby certify to the best of my knowledge that the information provided herein correctly describe me, my qualifications and experience.

Date: 26 September 2022

Signature: 