Environmental Scoping and Management Report

The Proposed Prospecting Activities in respect to Base and Rare Metals, Dimension Stones, Industrial Mineral and Precious Metals on EPL 8559 South-east of Kalkfeld, Erongo and Otjozondjupa Regions



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	ANNEXURE 1	
	FORMS	
Form 1		
	REPUBLIC OF NAMIBIA	
ENVIRON	MENTAL MANAGEMENT ACT, 2007	
	(Section 32)	
APPLICATION FOR	ENVIRONMENTAL CLEARANCE CERTIF	ICATE
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		REVENUE
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executive summary

Project Overview

Akelii Mining cc (herein referred to as the proponent) is a registered Namibian company, with vested interest and business ventures in the mining sector. Akelii Mining, in this respect obtained an-intend to issue of an Exclusive Prospecting License (**EPL 8559**) by the Ministry of Mine and Energy, on grounds that they acquire an Environmental Clearance Certificate.

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

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

Akelii Mining seek to jointly operate their business activities their two EPL 8559 along the boundaries of the Erongo and Otjozondjupa Regions, in respect to Base and Rare Metals, Dimension Stone, Industrial Minerals and Precious Metals. Principally, the joint-venture intends to explore (desktop geological study, collection of samples and identification of previous activity in the area where copper mining were conducted) for copper 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.

- <u>Lithology geochemical surveys</u>: 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.
- <u>Geophysical surveys</u>: 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

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 Akelii Mining cc to undertake its operation in compliance with the environmental legislative requirements in Namibia.

Therefore, Akelii Mining cc 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

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

Based on the findings of the environmental scoping assessment, which concludes that all potential negative impacts associated to the proposed Akelii'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 EPL 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 Akelii Mining cc s 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

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

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1. INTRODUCTION

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 and 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

Akelii Mining cc (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.

Akelii Mining seek to jointly operate their business activities their two EPL 8559 along the boundaries of the Erongo and Otjozondjupa Regions, in respect to Base and Rare Metals, Dimension Stone, Industrial Minerals and Precious Metals and Precious Stones. Principally, the joint-venture intends to explore (desktop geological study, collection of samples and identification of previous activity in the area where copper mining were conducted) for copper 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.

Akelii Mining , were therefore presented an opportunity to venture into the sector by undertaking an exploration programme in respect in respect to Base and Rare Metals, Dimension Stone, Industrial Minerals, Non-Nuclear Fuel Mineral and Precious Metals

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 Akelii Mining cc s Investment cc 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 Akelii Mining cc s Investment cc 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	Description of activity	Relevance to Ezinga Mining cc	
Legislation		Exploration Activities	
Activity 3 – Quarrying and Quarrying	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.	And the construction of facilities for the purpose of carrying out a listed activities	
	3.2 Other forms of quarrying or extraction of any natural resources whether regulated by law or not.	The quarrying or extraction of any natural resources whether regulated by law or not.	
	2.1 The construction of facilities for waste sites, treatment of waste and disposal of waste.	The proposed prospecting activity may result in the generation waste material i.e. domestic, effluent and potentially hazardous waste and	
Activity 2 – Waste management	2.3 The import, processing, use and recycling, temporary storage, transit or export of waste.	the consequent handling and storage f such.	
Activity 4 – Forestry activities	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, Akelii Mining appointed Enviro-Leap Consulting to conduct an environmental assessment and facilitate the process of obtaining and Environmental Clearance Certificate.

1.4. EIA TEAM

Akelii Mining 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.

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

Table 2: The EIA Management Team

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 Akelii Mining 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.

2. PROJECT DESCRIPTION

This section provides an overview of the conceptual overview of the prospecting activities on **EPL 8559**, 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 EPL 8559 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:

- <u>Geological mapping</u>: 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.
- <u>Lithology geochemical surveys</u>: 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 (±20cm X 20cm X 30cm) 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.

• <u>Geophysical surveys</u>: entails data collection of the substrata (in most cases service of an aerogeophysical contractor will be soured), 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.

• <u>Bulk Sampling</u>: Evidence of previous mining activity or abandoned mine sites will be sought within the EPL area, samples collected and sorted for further laboratory analysis to determine local concentration of (Ore containing Lithium, Tantalum and Copper 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

• <u>Drilling / Bulk Sampling</u>: 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 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 prospers 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 EPL 8559 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.

Akelii Mining , were therefore presented an opportunity to venture into the sector by undertaking an exploration programme in respect in respect to Base and Rare Metals, Dimension Stone, Industrial Minerals, Non-Nuclear Fuel Mineral and Precious Metals

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 EPL 8559 is situated in Central Namibia, with its boundaries extending **46 821 Ha** across the Erongo and Otjozondjupa Regions (**Figure 4**) and approximately 12 km (closest boundary) and 35 km (farthest boundary) South-east of the Kalkfeld Settlement. The EPL is accessible directly via the D2334 and or D2414 gravel roads from Kalkfeld heading into the South-eastern direction. Other section of the EPL will only be accessed by foot to ensure minimum impacts on the receiving environment.

As far as is practicable, all site particularly the base-camp and sampling sites shall be accessed through existing tracks, therefore no new roads or tracks will be created. Overall, all access by vehicles must be limited to existing access track.

Consequently the EPL area is accessible by 2x4 / 4x4 pick-up vehicle by the existing tracks and otherwise, the sensitive section of the area 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 Regions



Figure 3: Evidence of the proposed EPL application on the Ministry of Mine's cadastre (MME, 2023)

Table 3: Corner coordinates of the proposed development site

P		
Corner point	Latitude	Longitude
A – EPL 8559 Point 1	-21.001117°	16.243212°
B – EPL 8559 Point 2	-21.074306°	16.231494°
C – EPL 8559 Point 3	-21.001107°	16.129834°
D – EPL 8559 Point 4	-21.040857°	16.202389°
E – EPL 8559 Point 5	-21.106201°	16.161452°
F – EPL 8559 Point 6	-21.187467°	16.156962°
G – EPL 8559 Point 7	-21.182296°	16.227273°
H – EPL 8559 Point 8	-21.121479°	16.230472°
I – EPL 8559 Point 9	-21.168894°	16.381341°
J – EPL 8559 Point 10	-21.188837°	16.570365°
K – EPL 8559 Point 11	-21.120921°	16.594736°
L – EPL 8559 Point 12	-21.074252°	16.583405°

2.4. SUPPORTING INFRASTRUCTURE

2.4.1 Basecamp

Given the location of the EPL and that it is situated in an area predominantly surrounded with commercial farmlands (**Figure 4**) and where tourism activity only occur to a limited degree, basecamp is necessary. Therefore, any suitable site for lodging purpose or for base-camp must be identified in collaboration and or with consent of the property owner and all other relevant authorities including the local and competent authorities.

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 farmer's wildlife and livestock management protocols.



Figure 4: Land-use map of the proposed exploration activity's site or area in the Erongo Regions

No.	Farm Name	No.	Farm Name
1	Farm Klein Okosombuka No. 56	12	Farm Etjo Nord No. 93
2	Farm Okaturua No. 57	13	Farm Etjo Sued No. 97
3	Farm Vastrap No. 174	14	Farm Omungonde No. 96
4	Farm Okozongutu West No. 100	15	Farm Rhenosterkloof No. 96/1
5	Farm Ongangasemba No. 99	16	Farm Otjihaenamaparero No. 92/REM
6	Farm Omaha No. 98	17	Farm Omatarassu No. 53
7	Farm Bambi No. 98/1	18	Farm Ombona No. 89
8	Farm Schoner-Brunnen West No. 501	19	Farm Oseraomewa No. 54
9	Farm Haidehof No. 52	20	Farm Georg-Ferdinnadshohe No. 512
10	Farm Eheratengua Ost No. 48	21	Farm FMC No. 94/1
11	Farm Eheratengua No. 49/REM	22	Farm FMD No. 94/1

 Table 4: List of Former Commercial farms included within the boundaries of EPLs

During the prospecting period, it is anticipated that about 10 – 15 persons will be employed, although only four staff are allowed to lodge on-site on an alternating (rotating) basis. The project specialists such as geologists, field assistants, geo-technicians and sampling crew, will be hosted on either a daily or special visit basis, 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 national park 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 Omaruru or Karibib waste disposal site.

2.4.2 Water supply

Water will be required for 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 Akelii Mining cc s Investment cc in which case a permits must be obtained.

2.4.3 Power supply

In respect to domestic power needs, the recommended lodging site is already connected to the national power grid thus the energy requirements addressed adequately. 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

EPL 8559 is accessible is accessible directly via the D2328 gravel road in the eastern direction from the town. As far as is practicable, all site particularly the base-camp and drill 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.

Overall, all access by vehicles must be limited to existing tracks while all new access routes to the drill sites should be identified, agreed upon with the landowners and demarcated prior to the commencement of drilling activities. Consequently the EPL area is accessible by 2x4 / 4x4 pick-up vehicle by the existing tracks and otherwise, the sensitive section of the area will only be accessed by foot to ensure minimum impacts on the receiving environment.

2.4.5 Waste (Domestic / Hazardous) Management

<u>Domestic Waste</u>: 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 Omaruru or Karibib.

<u>Sanitation</u>: 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.

<u>Harzadous substance Storage or Handling</u>: During the exploration phase, there may be need for storage and use diesel either for energy generation and or drilling machinery, therefor fuel (diesel) will be delivered to the site by road transport and pumped into the vehicles or storage barrel drums. Other hydrocarbon consumables and lubricants will be stored in a designated area within a controlled container. These substances will only be used for mechanical purposes and are assumed to be non-hazardous.

Nonetheless, the proponent is advised to ensure that they have an emergency response and contingency plan in place to manage any potential spillage of hydrocarbon and these must include appropriate spill-kits (trays and bins) and PPE for the staff.

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 and the mitigation measures to be identified in the appropriate Environmental Management Plan adhered to.

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.

3.1.1 Climatic Conditions

About 22% of Namibia's land is classified as desert (hyper-arid), 70% is classified as arid to semiarid and the remaining 8% is classed as dry sub-humid (Mendelsohn et al. 2003). In Omaruru, the summers are long, hot, and partly cloudy; the winters are short, cool, windy, and clear; and it is dry year round. The recorded average maximum temperature at Omaruru Town that may be representative of climate at Kalkfeld Settlement which is the closest settlement to the study area, Over the course of the year, the temperature (**Figure 5**) typically varies from 9°C to 35°C and is rarely below 6°C or above 38°C (Mendelsohn et al. 2003).



Figure 5: The summary of the climate in the Omaruru surrounding of Erongo Region

The hot season lasts for 4.7 months, from September 30 to February 18, with an average daily high temperature above 33°C. The hottest month of the year in Omaruru is December, with an average high of 34°C and low of 18°C. The cool season lasts for 2.3 months, from May 27 to August 6, with an average daily high temperature below 27°C. The coldest month of the year in Omaruru is July, with an average low of 10°C and high of 26°C.

Rainfall is highly erratic and unpredictable with an inter-annual coefficient of variation that ranges from about 30% (**Figure 6**) in the north-east to over 100% in the driest areas. Around the project area and across the desert biome, annual average rainfall ranges between 10 mm 120 mm per annum, and this decreases along the east-west gradient to annual averages of less 20 mm per annum.



Figure 6: The summary of precipitation in the Omaruru surrounding of Erongo Region

The predominant average wind vector (speed and direction, **Figure 7**) at 10 meters above the ground in Omaruru varies throughout the year, with winds blowing often from the East (for 7.3 months, February 25 to October 4), with a peak percentage of 51% on July 14. The calmer time of year lasts for 5.9 months, from November 19 to May 17. The calmest month of the year in Omaruru is March, with an average hourly wind speed of 3.2 meters per second.



Figure 7: The summary of percentile of hours in which the mean wind direction is from each of the four cardinal wind directions, the lightly tinted areas at the boundaries are the percentage of hours spent in the implied intermediate directions (northeast, southeast, southwest, and northwest)

Otherwise, the wind also blows from the south (for 4.7 months, from October 4 to February 25) with a peak percentage of 49% on January 1East North-East at speeds reaching more than 22 km/s (Robertson et. al, 2012). The windier part of the year lasts for 6.1 months, from May 17 to November 19, with average wind speeds of more than 4.0 meters per second. The windiest month of the year in Omaruru is July, with an average hourly wind speed of 4.7 meters per second.

3.1.2 Geology

The claims are located within the Damara Granit and Swakop Formations of the Damara orogenic belt (Figure 8), which is geologically characterised by rocks of Nosib and Swakop Groups mainly.

According to (Miller, 2008), this zone has been thrusted 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: Simplified geology of Simplified geological map of Namibia. Modified after Clifford (2008).

The Damara Orogen represents a Wilson cycle with extension during the breakup of Rodina, 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 tectonostratigraphic 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. Of particular interest to proposed mining claims are nearer to the Helikon-Rubicon Belt / Pegmatite District – Erongo (Schneider 1992).

Topographically, for the purposes of this report, the geographical coordinates of Omaruru are **-21.433** deg latitude, **15.933** deg longitude, and 1,206 m elevation. The topography within 3 kilometres of Omaruru contains only modest variations in elevation, with a maximum elevation change of 62 meters and an average elevation above sea level of 1,216 meters. Within 16 kilometres contains only modest variations in elevation (573 meters). Within 80 kilometres contains very significant variations in elevation (1,511 meters).

The area within 3 kilometres of Omaruru is covered by grassland (100%), within 16 kilometres by grassland (100%), and within 80 kilometres by grassland (96%).

3.1.3 Terrestrial Ecology and Sensitivity

Namibia is naturally the most arid country in sub-Saharan Africa, and prolonged droughts are wellknown occurrences, which is projected to increase and become more unpredictable in the future (Ziedler 2010). Namibia's vegetation and biomes are classified into five major types, shown in (**Figure 7**). 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.



Figure 7: Shows a comparison of overall terrestrial species diversity (green) against overall endemism (brown)

Overall terrestrial diversity of plants and animals is highest in the north-eastern parts of Namibia (**Figure 7**, 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).

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).

The vegetation in the study area is diverse and includes a number of species endemic to the central and northern Namib as well as various protected species such as Gomphocarpus fruticosus (milkweed), Zygophyllum simplex (simple Zygophyllum), Zygophyllum stapffii (dollar-bush), Arthraerua 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 shrublands 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 the Namib, endemics are associated with the dunes, rocky inselbergs and hills, and the gravel plains. For instance, approximately 60 reptile species (50% of all Namibian endemic *Euphorbia damarana* shrubland) reptiles) are endemic to, or found mainly in, Namibia's Namib Desert (Griffin 1998).

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).

In respect to the Akelii Mining's operations, habitats of special ecological importance and therefore requiring special care for both richness of species generally and of endemic species include (Barnard 1998):

- The Namib gravel plains;
- The winter-rainfall desert zone

3.2 SOCIO-ECONOMICAL ENVIRONMENT

3.2.1 Demographic Profile

The Erongo Region is one of Namibia's regions that has a shoreline on the Atlantic Ocean. On land, it borders with Kunene Region in the North, Otjozondjupa Region in the East, Khomas Region in the Southwest and Hardap Region in the South. While the Otjozondjupa Region is situated northeast of the capital of Windhoek and spans 105,460 km² and with a low population of approximately 144.000 people (0.73 persons/ km²) (Namibia Statistics Agency 2011).

The 2011 Namibia Population and Housing Census results show that, Erongo had a population of 150,809 people of which 70,986 were women and 79,823 were men. The region's population was

growing at an annual rate of 3.4 percent. Most of the population lived in urban areas (87%) compared to only 13 percent in rural areas.

Both regions are characterized by land tenure that is predominantly privatized, except for the community lands in some of their districts i.e. Omatjete and Okombahe reserves in the Omaruru district (Erongo Region) and Okakarara / Otjituuo Reserves in the Otjiwarongo / Grootfontein Districts (Otjozondjupa Region).

Of the regional population, 70.1 percent of the economically active population aged 15 years and above was employed while 29.9 percent was unemployed. The unemployment rate was higher in rural areas (34.5%) as compared to urban areas (29.3%). In contrast, the employment rate in urban areas was higher than in rural areas (70.7% and 65.5% respectively).

Until independence in 1990, the Erongo Region 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 Kalkfeld to sustain their livelihoods. The mine however closed in 1990, leaving the community residing in the township with no alternative economic activity.

On the contrary, Otjozondjupa Region's land use is mostly rangeland cattle farming, much of it being intensive commercial cattle farming, grain production, and a large proportion of smallholder subsistence agriculture mainly in the communal lands (King et al. 2011, Gilolmo and Lobo 2016).

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 (both in Erongo and Otjozondjupa) and or in riverbeds. Others includes surface scatters of stone artefacts, rock shelters with evidence of occupation, including rock art, graves, stone features such as hunting blinds and huts, and more recent site such as colonial battlefields, road-works and historical mines.

Some of these site types are 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. However, given the nature, scope and scale of the proposed 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 EPL and exploration area.

The heritage and culture consideration through a desktop study, indicates that although the southern regions of Namibia is not well studied archaeologically, several field surveys have been carried out indicate that the archaeological sequence is represented over the whole of southern and central Namibia. These surveys tend to concentrate mainly on the physical setting of known archaeological sites e.g. river valleys with an emphasizes on the higher and mid- slopes of hills, as well as a number of localized resources such as small springs and outcrops.

In the light of the evidence found during the field assessment and other desktop review of previous field surveys, it can be concluded that should a detailed heritage assessment be necessary and conducted it may yield the following results:

- Pre-Quaternary palaeontological evidence in insignificant quantity and mainly in the vicinity of Palaeozoic shale outcrops near Omaruru or Karibib, Aus and Lüderitz.
- Generalized occurrence of mid- to late Pleistocene to early Holocene artefact scatters primarily between the 26° and 27° South latitude.
- Moderately high density of late Holocene to recent pre-colonial archaeological sites throughout the extent of the power-line route, including burial cairns and remains of nomadic pastoral encampments, as well as possibly of some rock art sites and rock shelter sites containing sealed occupation debris
- Generalized occurrence of colonial era sites, including farm settlements, battlefield sites and related remains.

Therefore, it remains necessary that in the absence of extensive heritage and culture studies in the region there remains a possibility of encountering numerous undeclared artefacts / sites of heritage importance. 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.

4. APPROACH TO EIA PROCESS AND PUBLIC PARTICIPATION

This chapter presents the approach to the Environmental Scoping Assessment process, for the proposed Akelii Mining'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 newspapers in order to notify and inform the public of the proposed projects and invite I&APs to register.

TASK	DESCRIPTION	NEWSPAPER	DATE		
Notification-regulatory aut					
I & APs identification	Newspaper notifications calling for registration as	The Confidente Newspaper	07 July – 13 July 2023		
	Interested and Affected Party	The Villager Newspaper	05 th July 2023		
Newspaper advertisements	Newspaper notifications calling for Public Comment	The Confidente Newspaper	14 – 25 July 2023		
	on the Scoping Report by I & APs	The Villager Newspaper	13 th July 2023		
Public Meeting and Review of Scoping report					
I & APs and authorities (excluding MET) review of scoping report	Scoping Report availed to the pul input prior to submission to the C	01 Aug 2023			

Table 2: Consultation Process with I&APs and Authorities

As previously noted, the Scoping Report includes an Environmental Management Plan (EMP, **Appendix B**). 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 Akelii Mining'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 Akelii Mining cc 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 9*.



Figure 9: 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).

Legislation	Relevance			
	 Labour matters, rights and duties of employees. 			
Labour Act, 1992, (Act No. 6 of 1992) and Regulations Related to Health and Safety of Employees	 Health and Safety of Employees Construction safety; Electrical safety; Machinery safety; Hazardous substances; Physical hazards and general provisions; 			
Social Security Act, 1994 (Act No. 34 of 1994) and the Affirmative Action (Employment) Act, 1998 (Act No. 29 of 1998)	 Establishment of the Social Security Commission Administration of a pension and incidental matters fund – affirmative employment opportunities 			
The Forest Act	 Declaration of protected areas in terms of soils and water resources Proclamation of protected species of plants and the conditions under which these plants can be disturbed, conserved, or cultivated. 			
Nature Conservation Amendment Act	 Declaration of protected areas and protected species. 			
National Heritage Act	 Protection and conservation of places and objectives of significance, as all archaeological and paleontological objects belong to the state 			

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

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. Newspaper adverts were placed consecutively (at 14 days interval) in local newspapers **Confidente** newspaper on **07 July – 13 July 2023 and 14 – 25 July 2023**, and then in **The Villager** newspaper on the **05**th and **13**th **July 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 A).

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. 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 B**. 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.

PART A: DEFINITION AND CRITERIA				
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		Substantial deterioration (death, illness or injury). Recommended level will often be violated. Vigorous community action. Irreplaceable loss of resources.		
of environmental impacts	М	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+ M+		Minor improvement. Change not measurable/will remain in the current range. Recommended level will never be violated. Sporadic complaints.		
		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	L	Quickly reversible. Less than the project life. Short-term		
DURATION of impacts	М	Reversible overtime. Life of the project. Medium-term		
	H	Permanent beyond closure – Long-term.		
Criteria for ranking the	L	Localized-Within the site boundary.		
SPATIAL SCALE of	М	Fairly widespread–Beyond the site boundary. Local		
Impacts	H	Widespread – Far beyond site boundary. Regional/national		

Table 9: Criteria for Assessing Impacts

PART B: DETERMINING CONSEQUENCE								
	SEVERITY = L							
DURATION	Long-term	Н	Medium	Medium	Medium			
	Medium term	Μ	Low	Low	Medium			
	Short-term	L	Low	Low	Medium			
			SEVERITY = M					
DURATION	Long-term	Н	Medium	High	High			
	Medium term	М	Medium	Medium	High			
	Short-term	L	Low	Medium	Medium			
			SEVERITY = H					
DURATION	Long-term	Н	High	High	High			
	Medium term	Μ	Medium	Medium	High			
	Short-term	L	Medium	Medium	High			
			L	M	Н			
			Localized Within site boundary Site	Fairly widespread Beyond site boundary	Widespread Far beyond site boundary			
	SPATIAL SCALE							

PART C: DETERMINING SIGNIFICANCE										
PROBABILITY	Definite/Continuous	Н	Medium	Medium	High					
(of exposure to	Possible/frequent	М	Medium	Medium	High					
impacts)	Unlikely/seldom	L	Low	Low	Medium					
			L	Μ	Н					
				CONSEQUENCE						

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

5. ASSESSMENT OF ALTERNATIVES AND IMPACTS

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 Akelii Mining'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 EPL 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 export and import trading 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 investments 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 aspire 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 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 B**. 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 10**) 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 10 - 12**) 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 10: Impact on the Biophysical Environment – EPL site Access and use of vehicles

Impact Event	Dicturba	ncos on Biod	ivorcity			, 				
Description	Off road	Off-road driving is a major concern, particularly with regard to uncontrolled use								
Description	of ava	of 4x4 vehicles and quad-bikes. This leads to physical degradation and the								
	or 4x4	ion of unique	quad-Dike	s. This leads to	physical	uegrada	ition and the			
		destruction of unique nabitats, especially in environmentally sensitive areas								
Natura	I racks le	iracks leave scars that can remain for centuries, affecting the aesthetic qualities								
Nature	or the d	or the ounes and the surrounding gravel plains, reducing the attractiveness of								
	the area	the area as a recreational destination. Littering of the beaches and the desert due								
	concrea	to increasing tourism is a general problem. Camping outside of designated areas								
Dhases: Phases during	occurs during peak holiday periods.									
Significance assessment	t was carried	d out on the i		s tracks which p	roconte a	chort to	rm rick			
	t was carried				ioning	511011-10	111115K.			
Construction Phase	0	perational Ph	250	Phase	ioning v	P	ost Closure			
No Construction		ing of EPI	area for	THUS	•	1				
	· Access	and com	died 101							
envisaged at this	Survey	s and samp	ning with							
stage	project	t vehicles		N/A	N/A		N/A			
	 Upgrading of access tracks 									
	(e.g. gi	rading)								
	Taken to	gether, the d	listurbance	s will have a mini	mum to n	nedium	severity given			
Severity	that limi	ited number	of vehicles	s will be used an	d no new	/ access	track will be			
	created,	these can be	drastically	minimized to very	y low with	mitigat	ion measures.			
	The Sign	nificance of th	ne potentia	al impacts is med	ium giver	n the pr	oject location			
Duration	and surr	ounding land	-uses							
	Low, loc	alized if activi	ties are res	tricted to the kno	wn pegm	atite be	lts area within			
Spatial Scale	the EPL	thus limiting p	potential ir	npacts spatially						
	Low to N	Aedium, espe	cially in res	pect to wildlife / I	ivestock	collision	and poaching			
Probability	as proje	ct staff will be	e at all time	s accompanied b	y Game G	uards				
			Spatial		Probabil	ity of				
Unmitigated	Severity	Duration	Scale	Consequence	Occurre	ence	Significance			
	L-M	L	L	н		-	Н			
	- ··	-	Spatial	~	Probabil	ity of	<u></u>			
Mitigated	Severity	Duration	Scale	Consequence	Occurre	ence	Significance			
	L	L	L	L		-	H			
	• Strict	compliance	with the	Park Managem	ient guio	lelines	and EMP is			
Concontual	recommended in respect to managing incidental events;									
Description	Explore	ation activity	must be	limited to the p	re-identif	ied peg	matites belts			
Mitigation Measures	within	the EPL area								
Mitigation Measures	• Unless	necessary an	d agreed v	vith the Park man	agement,	no new	access tracks			
	shall be created and no lodging shall be allowed in sensitive zones									

 Table 11: Impact on the Biophysical Environment – Sampling / trenching for geological sampling

Impact Event	Disturba	ances on Biod	iversi	tv in	respect to samp	ling a	nd trenchin	g activities		
Description	Should a trenches This will access t which to are the r	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	Dependi relating from the Dis dis Po	 Depending on the scale of sampling unofor diamond core sampling riterioring, riteriorin								
Significance assessment	t was carrie	d out on the s	amplir	ng / t	renching nhase v	vhich	pry al e flight presents a l	ong term risk		
Significance assessment	c was carried		ampin	1670		ø	presents ar			
Construction Phase	Oper	ational Phase			Phase	8	Pos	t Closure		
 No Construction envisaged at this stage 	 Access for sampli vehicle Upgra tracks 	ing of EPL a surveys ng with pro es ding of acco (e.g. grading)	and ject ess		N/A			N/A		
Severity	Taken to number can be d	ogether, the d of vehicles w lrastically min	isturb ill be ι imizec	ance used d to v	es will have a mee and no new acco very low with mit	dium s ess tra igatic	severity give ack will be o on measures	en that limited reated, these		
Duration	The Sigr i.e. near Low, loo	nificance of th a national par calized if acti	e pote rk and vities	entia with are	l impacts is very hin a town restricted to the	high g	given the pr	oject location ite belts area		
Spatial Scale	within th	ne EPL area th	ius lim	niting	potential impac	ts spa	tially			
Probability	Low to N as proje	Aedium, espe ct staff will be	cially in at all	n res time	pect to wildlife / l es accompanied b	livesto by Gar	ock collision ne Guards	and poaching		
Unmitigated	Severity	Duration	Spati Scale	al e	Consequence H	Prob Occ	ability of urrence	Significance		
Mitigated	Severity L	Duration L	Spati Scale	al e	Consequence	Prob Occ	ability of urrence L	Significance		
Conceptual Description of Mitigation Measures	L L L L M • 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; • Exploration activity must be limited to the pre-identified pegmatites belts within the EPL area thus reducing the spatial impacts to key areas of the EPL • Unless necessary and agreed with the park management, no new access tracks shall be created and no lodging shall be allowed in sensitive zones • 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 Omaruru or Usakos • Unless in an emergency, no equipment (vehicles and drill rigs) should be serviced in the field thus preventing uppecessary spillage of hydrocarbons									

 Table 12: Impact on the Biophysical Environment – Waste Management (Effluent, Solid and Hydrocarbons)

Impact Event	Waste generation and disposal									
Description	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).									
Nature	 In general, prospecting activities generates very little domestic solid waste which includes but may not be limited to: Litter materials i.e. plastic bags, cartons, food packages and Effluents and sewer may only be generated in case where a base-camp is necessary and a bathroom with flushing toilets are used Minor hydrocarbons spillage(fuels and lubricants), possible contamination of soils and groundwater, in case of hydrocarbon spillage mainly from maintenance of equipment and vehicles 									
Phases: Phases during	g which the	project has	implicatio	ns of waste gene	eration are highl	ighted below;				
Construction Phase	Opera	ational Phase	amping /	Decommissioning Phase	3 Pos	t Closure				
 No Construction envisaged at this stage 	 Lodgin existin lodge 	Lodging is envisaged at existing campsite / N/A N/A								
Severity	Taken to impacts	Taken together, waste generation in respect to the proposed activities presents impacts that are of very-low severity as in general little is generated								
Duration	The duration of the potential impacts is bound to the duration of the proposed operations thus short-term in nature									
Spatial Scale	Low, wa property	ste generatio	n shall be	limited mainly to t entirely influence b	he lodging areas by the proposed p	and subject to project				
Probability	Very Lov	w, shall be lin and thus not (nited maii entirelv in	nly to the lodging fluence by the pro	areas and subje	ct to property				
Unmitigated	Severity L	Duration L	Spatial Scale L	Consequence	Probability of Occurrence L	Significance L				
Mitigated	Severity	Duration	Spatial Scale	Consequence	Probability of Occurrence	Significance				
Conceptual Description of Mitigation Measures	LLLLL• 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• 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 Omaruru or Usakos Towns• 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)• Equally, effluent waste shall be managed in compliance with the lodging host's requirements, although during any sampling activities – temporary dry-pit toilet									

5.2.2 IMPACTS ON THE SOCIO-ECONOMIC ENVIRONMENT

Table 13: 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 Corvid- 19 pandemic it is recommended that all protocol in this respect are observed throughout the exploration phase. The inter-migration of project staff in-and-out of the region may present potential risks of disease transmission particularly in respect to Corvid-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 s	staff fall ill wh	ile in the f	ield.		,				
Phases: Phases during	which sourc	es of social (h	nealth and	safety) impacts a	pply are highlight	ted below;				
				Decommissioning	ž					
Construction Phase	Oper	ational Phase		Phase	Pos	t Closure				
N/A	 Use of the lodging and other social facilities, as well as other social interactions 			N/A		N/A				
Severity	In the u	nmitigated so	enario, th	e potential risk fo	or transmission o	of contagious /				
Duration	infectious diseases is High 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	be medi for Corv	um to high bu	it localized	lif for instance pro	pject staff underg	o prior testing				
Probability	Low, es health a	pecially giver nd safetv of b	n that the ooth conta	re are clear guid gious diseases an	eline and protoc d if thev are well	ols governing observed				
Unmitigated	Severity	Duration	Spatial Scale	Consequence	Probability of Occurrence	Significance				
Mitigated	Severity M-I	Duration	Spatial Scale	Consequence	Probability of Occurrence	Significance				
Conceptual Description of Mitigation Measures	 M-L L L M L H Strict compliance with the EMP is recommended in respect to managing incidental events; It is strictly advised that project staff ensures that in respect to Corvid-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) 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 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 Strict ban on use of any toxic substances within and during the working environment must be prohibited and serious punitive actions taken against any is a seried. 									

Table 14: Impact on the Social Environment – Air and Noise Pollution

Impact Event	Disturba	nces to the s	ocial en	vir	onment					
Description	Should a trenches This will access tr to set th reverse trenches	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.								
Nature	Dependi impacts excavato • No	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: • Noise from sampling / trenching machineries may be anticipated								
Phases: Phases during	which source	es of social (Ai	ir and No	oise	e Pollution) impac	ts apply	are highl	ighted below;		
Construction Phase	Opera	ational Phase			Decommissioni Phase	ng	Ро	st Closure		
 Land preparation and setting-up of drill sites Setting-up Base- camp for project staff 	 Accessing of EPL area for surveys and sampling with project vehicles Upgrading of access tracks (e.g. grading) 			 Structure demolition and ground leveling activities Temporary lodging for decommissioning staff 				N/A		
Severity	Taken to scenario or mitiga	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.								
Duration	The Sign life-time	ificance of th , however the	e poter identif	ntia fied	l impacts is subje- impact's duration	ct to the	e propose lental and	d operation's short-term.		
Spatial Scale	Low, loc lead to it site whic	alized althoug ncreased traf	gh cumu fic. The sidentia	ulat noi al ar	ive as haulage ald se aspect is main eas.	ong the ly limite	designate d to the f	ed routes may eedlot facility		
Probability	Very Lov limited t	w, the only no o the constru	oisy acti Iction ar	iviti nd c	es associated with the sassociated with the second se	th the p	roposed	operation are		
Unmitigated	Severity	Duration	Spatial Scale	I	Consequence	Probab Occur	ility of rence	Significance		
Mitigated	Severity L	Duration L	Spatial Scale		Consequence L	Probab Occur	ility of rence	Significance H		
Conceptual Description of Mitigation Measures	 Strict compliance with the EMP is recommended in respect to managing incidental events; Noise complaint register must be kept and maintained regularly with mitigation measures adopted accordingly. All excessive noise generating activities must be strictly carried out during the day between o8hoo (am) and 17hoo (pm) week days only. Conditions of the Environmental Clearance Certificate and Surface-use Agreement (with the relevant Traditional Authority and Park) must be accordingly adhere to. 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 trailor) 									

Table 15: Impact on the Social Environment – Culture, Heritage and Scenic values

Impact Event	Disturba	nces to the h	eritage aı	nd scenic value of	the env	vironment				
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 EPL area is low. However, evidence cultural heritage were observed at Omaruru or Usakos Towns.									
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	Opera	ational Phase		Decommissionin Phase	g	Pos	t Closure			
 Land preparation and construction activities Temporary lodging for construction staff 	Reconnaissance activities geological mapping, topographical and remote sensing for decommissioning hase Prost Closure Structure demolition and ground leveling activities Temporary lodging for decommissioning N/A						N/A			
Severity	Severity unlikely	Severity is Low, disturbances relating to field-based will be low with extremely unlikely probability of occurrence without mitigations								
Duration	The sign life-time Localize	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 Localized, although chances of damaging artifacts are very high when								
Spatial Scale	be limite	erea, the pro ed to certain r	ock outcr	ops and along rive	r valley	L area are s.	tivities to ope			
Probability	known p	egmatite bel	t that falls	within the mining	g area.					
Unmitigated	Severity L	Duration L	Spatial Scale M	Consequence H	Occui	rrence	Significance H			
Mitigated	Severity	Duration	Spatial Scale	Consequence H	Probal Occur	bility of rrence	Significance			
Conceptual Description of Mitigation Measures	 Strict compliance with the EMP is recommended in respect to managing incidental events 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 The chance finds procedure as outlined in the EMP must be implemented at all times, and. 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. 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 									

 Table 16:
 Impact on the Economic Aspect

D		Disturbances on social and economic aspects										
	Description	Potential economic gains that may never be realized if the proposed project										
		activities	town, unemployment and the loss of socio-economic benefits derived from									
		future m	future mining development opportunities.									
N	lature	However, it is imperative that the community is made aware that a major possible										
		impact o	of exploratio	n is the unr	ealistic expectatio	ons about the dev	elopment of a					
		mine. It'	mine. It's important for local communities to bear in mind that most exploration									
		activity	activity will not advance to mine development.									
н h	'hases: Phases during highlighted below;	g which sou	irces of soc	ial (potenti	al social and eco	nomic gain) impa	acts apply are					
					Decommissioning	5						
(Construction Phase	Opera	tional Phase	e in st	Phase	Pos	t Closure					
		• Use o	t the lodg	ing								
		dnu fa ciliti	other so	ciai								
		tacilitie	es, as well	dS								
•	Land preparation and	intorac	su	• Str	ucture demolit	ion • Retrend	hments,					
	construction	niterat		an	d ground level	ing retireme	ent and job					
	activities	• Potent	.idi ivi	act	ivities	losses d	ue to closure					
		In the u	pinein	conorio thi	s implies in the s	asa whore the act	tivity taka pat					
		take eff	ect. no ecor	omic benef	its shall realize h	ence, the severity	in respect to					
S	everity	unemplo	yment shal	l be very h	igh. However, w	ith the implemen	ntation of the					
		propose	d operation:	s, the severi	ty of unemployme	ent shall be reduce	ed to medium.					
		The Sigr	ificance of t	the potentia	l impacts is subje	ect to the propose	ed operation's					
D	Ouration	life-time	, with a long	-term poter	itial		C III I					
c	natial Scale	Low, loo	alized and	only limited	to the Omaruru	i or Usakos Towi	ns Settlement					
		Low – N	ledium. pro	bability in r	espect to job cre	ation on both the	e temporary (
		during e	xploration)	and long-te	erm (during Min	e development a	nd operation)					
P	robability	phases		_			_					
				Spatial		Probability of						
U	Inmitigated	Severity	Duration	Scale	Consequence	Occurrence	Significance					
		L-M	L	L	L	L	L					
		Sovority	Duration	Spatial	Consoquence	Probability of	Significanco					
Ν	Aitigated		Duration	Scale	consequence	occurrence	Significance					
		L	M+	M+	H+	H+	H+					
		 It is c 	ritical that t	the least set	ontinuous comm	unication and dis	semination of					
		social	marginalizz	the local col	rinnunity is ensure	ed to alleviate pote	understanding					
		social	orcoption of	f the bonefi	genuer equality a	Akolii Mining co						
		and p	erception o	I the benefi	s associated with	I AREIII MIITIITI CC	activities					
		• To en	hance the p	ositive impa	cts relating to mai	rginal net benefits	for the micro-					
		economy (local residence of Omaruru or Usakos Towns Sattlement and										
		Frongo at large) and national economy at larger. legislative provisions to										
		Affirr	native Actio	n and Labou	r Welfare must b	e observed						
C	onceptual											
D	escription of	• It is st	trictly recom	mended that	at Akelii Mining co	negotiates and s	igns a Surface					
Ν	Aitigation Measures	Use A	Agreement o	letailing asp	ects of conduct a	and benefit distrib	oution with all					
		key st	akeholder i.	e. Tradition	al Authority, Park	and other Operat	ors or support					
		,				1						
C D N	Conceptual Description of Aitigation Measures	 economy (local residence of Omaruru or Usakos Towns Settlemer Erongo at large) and national economy at larger, legislative provision Affirmative Action and Labour Welfare must be observed It is strictly recommended that Akelii Mining cc negotiates and signs a S Use Agreement detailing aspects of conduct and benefit distribution v key stakeholder i.e. Traditional Authority. Park and other Operators or su 										

6. CONCLUSIONS AND RECOMMENDATIONS

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. Akelii Mining cc, 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 EPL location / site particularly considering that it falls within a farming. Primarily, the key objective in respect to land-use here is generation of economic benefits from farming activities i.e. livestock and or game farming.

Hence, the pre-dominant land-use in these environments is usually non-intrusive and includes alternative tourism operations. However, tourism may have not proven to be the sole economically rewarding land-use option given the prolonged effects of natural disasters and pandemics. This has created an uncertainty which resulted in communities looking beyond farming and tourism for alternative income streams and thus increased mining activities are observed in the area.

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 Akelii Mining cc'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 RECOMMENDATONS

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 17** shows the stakeholders engagement recommendations.

Table 17: Actions relating to stakeholder communication

Issue	Management commitment	Phase			
	On obtaining the Environmental Clearance Certificate and				
Development and	other relevant authorization it is recommended that the				
maintenance of a	proponent undertakes a stakeholder engagement process to				
Stakeholder engagement	develop a Communication and Monitoring Plan for				
plan	continuous reporting and feedback	All			
	Maintain and update the stakeholder register, including				
	stakeholder groups are included building on pre-identified and				
	registered I&APs.	All			
	A representative database would include all relevant local				
Understanding who the	government, service providers and contractors, indigenous				
stakeholders are	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	Devise and implement a stakeholder communication and				
affected parties at all phases	engagement strategy.	All			
in the mine life					
Responsibility	Responsibility Akelii Mining cc 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: ENVIRONMENTALMANGEMENT PLAN

OVERALL OBJECTIVES OF THE EMP

The following overall environmental objectives have been set for the Akelii Mining cc 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 Akelii Mining cc 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

Issue	Management commitment	Phase
Understanding who the stakeholders are	 Maintain and update the stakeholder register, including stakeholders' needs and expectations. A representative database would include all relevant local government, service providers, indigenous populations, Traditional Authorities (TAs), NGOs or community-based organizations Ensure that marginalized and vulnerable groups are also considered in the stakeholder communication process. 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	Akelii Mining cc and Enviro-Leap Consulting (On contract basis)	

 Table 18. Impact on the Biophysical Environment – EPL 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 ensu that as much as possible, disturbance on biodiversity is avoided and prevent while the proposed prospecting activities is undertaken.						
Proposed Mitigation Measures	 Strict compliance with the Park Management guidelines and EMP is recommended in respect to managing incidental events; Exploration activity must be limited to the pre-identified pegmatites belts within the EPL area Unless necessary and agreed with the park management, no new access tracks shall be created and no lodging shall be allowed in sensitive zones 	All					
Responsibility	Akelii Mining cc and Enviro-Leap Consulting (On contract basis)						

 Table 19. Impact on the Biophysical Environment – EPL site Access and use of vehicles

Table 20. III	סמכנ סודנוים שוסטרויזאנמו בחיוויסוווויפוונ – שמוג sampling and סופ פאנומכנוסו	
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.	e d
Proposed Mitigation Measures	 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; 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 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 Exploration activity must be limited to the pre-identified pegmatites belts within the EPL area thus reducing the spatial impacts to key areas of the EPL Unless necessary and agreed with the park management, no new access tracks shall be created and no lodging shall be allowed in sensitive zones 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 Omaruru or Usakos Unless in an emergency, no equipment (vehicles and drill rigs) should be serviced in the field thus preventing unnecessary spillage of hydrocarbons 	
Responsibility	Akelii Mining cc and Enviro-Leap Consulting (On contract basis)	

 Table 20. Impact on the Biophysical Environment – Bulk sampling and ore extraction

5.2.2 IMPACTS ON THE SOCIO-ECONOMIC ENVIRONMENT

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	 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 with the project site. 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 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 Omaruru or Usakos Towns 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) 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. 	All
Responsibility	Akelii Mining cc and Enviro-Leap Consulting (On contract basis)	

 Table 21. Impact on the Biophysical Environment – Waste Management (Effluent, Solid and Hydrocarbons)

 Table 22.
 Environmental Impact: Human Health and Safety

Impact Event	Prevention and mitigation of any health and safety hazards / risks P	hase
Desired mitigation outcome	The objective of the mitigation in respect to health and safety hazards ensure that the health, safety and protection of both the project sta- community receive priority in terms of budgetary provision and complian-	
	• Strict compliance with the EMP is recommended in respect to	
Proposed Mitigation Measures	 Strict compliance with the Link is recommended in respect to managing incidental events; 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 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 Strict ban on use of any toxic substances within and during the working environment must be prohibited 	A]]
Responsibility	Akelii Mining cc and Enviro-Leap Consulting (On contract basis)	

Impact Event	Disturbances to the social environment	Phase
Desired mitigation outcome	The objective of the mitigation in respect to ambient air quality and sense / noise and chance is to ensure that all possible receptors are ident practical measures are put in place to reduce these impacts and or resp appropriate mitigation to complaints	e of place ified and ond with
Proposed Mitigation Measures	 Strict compliance with the EMP is recommended in respect to managing incidental events; Noise complaint register must be kept and maintained regularly with mitigation measures adopted accordingly. All excessive noise generating activities must be strictly carried out during the day between o8hoo (am) and 17hoo (pm) week days only. Conditions of the Environmental Clearance Certificate and Surface-use Agreement (with the relevant Traditional Authority and Town) must be accordingly adhere to. 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). 	
Responsibility	Akelii Mining cc and Enviro-Leap Consulting (On contract basis)	

Table 23: Impact on the Social Environment – Air and Noise Pollution

Table 24: Impact on the Social Environment – Culture, Heritage and Scenic values

Impact Event	Disturbances to the heritage and scenic value of the environment Phase		
Desired mitigation outcome	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 wondering onto any protected and or sensitive known or identified site.		
Proposed Mitigation Measures	 Strict compliance with the EMP is recommended in respect to managing incidental events 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 The chance finds procedure as outlined in the EMP must be implemented at all times, and. 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. 		
Responsibility	Akelii Mining cc and Enviro-Leap Consulting (On contract basis)		

Table 25: 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 othe and existing land-use are prevented, reduced and or mitigated and the positive ones enhanced.		
		1	
Proposed Mitigation Measures	 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 Akelii Mining cc 's activities To enhance the positive impacts relating to marginal net benefits for the micro-economy (local residence of Omaruru or Usakos Towns Settlement and the region at large) and national economy at larger, legislative provisions to Affirmative Action and Labour Welfare must be observed It is strictly recommended that Akelii Mining cc 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) 	All	
Responsibility	Akelii Mining cc and Enviro-Leap Consulting (On contract basis)		

Table 25: Impact on the Economic Aspect

Table 26: Site Closure and Rehabilitation

Impact Event	Disturbances on social and economic aspects F		
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	 Akelii Mining cc shall submit regular (bi-annual or annual Environmental Reports) to the relevant Ministry stating the exploration activities and environmental performance of the project. 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. 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. 	Closure	
Responsibility	Akelii Mining cc and Enviro-Leap Consulting (On contract basis)	1	

APPENDIX B: PUBLIC CONSULTATION



Rising Interest Rates

change spending priorities from non-essentials to necessities (like food) and debt repayment.

Namibia has not been exempt from the fast rising inflation and interest rates experienced around the world over the past 18 months, which weigh on private spending.

Since household consumption spending accounts for 78% of GDP, Nandago said it is bad news for overall economic growth.

AccordingtoGDP dataforthe first quarter of 2023, consumption spending is now feeling the lag effects of the high inflation and interest rate environment, with growth during this time period averaging a three-year low of -4.4%.

"We expect weak consumption spending to persist based on various economic indicators namely elevated inflation and interest rates, high unsecured credit uptake growth, high levels of indebtedness and residential property weakness," Nandago emphasised.

She said load-shedding-related restrictions in South Africa, which is Namibia's primary food importer, has kept food inflation high.

The FirstRand Namibia's report anticipates a significant drop in spending activity considering that food and transportation account for 31% of Namibia's inflation basket altogether.

The Bank of Namibia increased rates by a total of 400 basis points (bps) in just 17 months, making Namibia the country with the sharpest cycle of rate hikes in history.

Interest rates are currently 150bps higher than they were

before to the epidemic, at 7.75%.

Nandago stated that Namibian consumers are heavily indebted, with outstanding household debt standing at N\$65.8 billion and a debt-todisposable income ratio of 86.0% for both bank and non-bank loans.

In line with a rise in the prime rate, she said the debt servicing to disposable income ratio increased slightly from 5.7% in 2021 to 6.2% in 2022.

"At this level of indebtedness, households are more susceptible to income shocks such as those from high interest rates and high prices, which is likely to substantially reduce consumer spending."

The FB Housing Index continued to decline for the majority of 2022, averaging -2.8% in terms of both prices and transaction volumes.

"We attribute the weakness in the residential property market to the high inflation and high interest rate environment that has reduced consumer affordability," Nandago said.

CALL FOR REGISTARTION AS INTERESTED AND AFFECTED PARTIES

ENVIRONMENTAL ASSESSMENT FOR THE PROPOSED MINERAL EXPLORATION ACTIVITIES ON EPL 8559 IN RESPECT TO BASE AND RARE METALS, DIMENSION STONE, INDUSTRIAL MINERALS & PRECIOUS METALS, ERONGO & OTJOZONDJUPA REGIONS

1. PROJECT SITE AND DESCRIPTION

Akelii Mining cc, intends to apply to obtain an Environmental Clearance Certificate for its proposed prospecting activities in respect to Dimension Stone, Base and Rare Metals, Industrial Minerals, Precious Metals and Nuclear Fuel on EPL 8559 in the Erongo Region. The key component of the proposed activity entails geological mapping and survey and manual sample collection for laboratory analysis. 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 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 **31 July 2023.**

3. COMMENTS AND QUERIES

Please register and direct all comments, queries to: Mr. Shadrack Tjiramba, Environmental Assessment Practitioner Email: eap.trigen@gmail.com



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ŽVilleger | 12 July 2023

Middle To Low-Income

Meanwhile, the NHE Board Chairperson Toska Sem, said although housing provision remains a challenge, the state-owned company with its limited resources constantly finds innovative means to deliver quality and affordable houses with the available means.

Sem further said the market trends have changed, and the company wants to accommodate everyone who walks into its doors seeking a roof over their heads. He said this calls for the realigning of NHE's housing delivery strategies to the realities on the ground, for example, by providing the most basic shelter for those who are unable to afford fully completed houses with geysers, tiles, and cupboards.

According to her, the total value of this housing project totals N\$10 million. The execution of housing programs provides not only the houses but also much needed relief in terms of job opportunities and business development for the residents.

"I am informed that about 100 local jobs were created as part of this project and this is testament to our philosophy of giving back to the communities we operate in," she said.

The NHE is currently busy with new housing development projects in towns across the country that will see the company constructing 235 houses.

These towns are Okahao, with 70 houses, Omuthiya with 50 houses, Gobabis with 65 houses, Outapi with 26 houses, Ondangwa with 24 houses, Gobabis with 50, and in Windhoek NHE has an informal settlement upgrading programme underway.

Through the PPP model, NHE partners with private investors on a turnkey basis. Under this arrangement, NHE avails land for construction and the final products are sold to customers on the NHE's waiting list.

NATIONAL NEWS

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ENVIRONMENTAL ASSESSMENT FOR THE PROPOSED MINERAL EXPLORATION ACTIVITIES ON EPL 8563 IN RESPECT TO BASE AND RARE METALS, DIMENSION STONE, INDUSTRIAL MINERALS AND PRECIOUS METALS, ERONGO REGION

1. PROJECT SITE AND DESCRIPTION

Ezinga Mining cc, intends to apply to obtain an Environmental Clearance Certificate for its proposed prospecting activities in respect to Dimension Stone, Base and Rare Metals, Industrial Minerals, Precious Metals and Nuclear Fuel on EPL 8563 in the Erongo Region. The key component of the proposed activity entails geological mapping and survey and manual sample collection for laboratory analysis. 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 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 **31 July 2023.**

3. COMMENTS AND QUERIES

Please register and direct all comments, queries to: Mr. Shadrack Tjiramba, Environmental Assessment Practitioner Email: eap.trigen@gmail.com



CALL FOR REGISTARTION AS INTERESTED AND AFFECTED PARTIES

ENVIRONMENTAL ASSESSMENT FOR THE PROPOSED MINERAL EXPLORATION ACTIVITIES ON EPL 8559 IN RESPECT TO BASE AND RARE METALS, DIMENSION STONE, INDUSTRIAL MINERALS & PRECIOUS METALS, ERONGO & OTJOZONDJUPA REGIONS

1. PROJECT SITE AND DESCRIPTION

Akelii Mining cc, intends to apply to obtain an Environmental Clearance Certificate for its proposed prospecting activities in respect to Dimension Stone, Base and Rare Metals, Industrial Minerals, Precious Metals and Nuclear Fuel on EPL 8559 in the Erongo Region. The key component of the proposed activity entails geological mapping and survey and manual sample collection for laboratory analysis. 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 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 **31 July 2023**.

Enviro Leap 📀 P. O. Box 25874, Windhoek 🛞 +264 &1 232 6843 @ eap.trigen@gmail.com

3. COMMENTS AND QUERIES

Please register and direct all comments, queries to: Mr. Shadrack Tjiramba, Environmental Assessment Practitioner Email: eap.trigen@gmail.com

RESUME OF EAP

...a leap towards better environmental compliance

PROFESSIONAL PROFILE

Mr. SHADRACK TJIRAMBA Research and Environmental Management Specialist

ID Number : Country of Résidence : Nationality:	80011910445 Namibia Namibian	EMAIL: Cell:	eap.trigen@gmail.com +264-816229933
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	Post-Graduate Diploma Sustainable Land Management (NQA Level
	Cape	8) Sustainable Development, Resource Economics, 2009), South
		ATTICA
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 (Deutcshe 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

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-responsible 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
- Laise 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.

26 September 2022 Date: Signature: