

ENVIRONMENTAL ASSESSMENT FOR MINERAL EXPLORATION ON EPL 8844, SOUTHERN NAMIBIA

EXECUTIVE SUMMARY

1. Introduction

1.1 Overview

The proponent, Johan Van der Westhuizen, was granted an exclusive prospecting licence (EPL) by the Ministry of Mines and Energy. The licence holder intends to explore for lithium and rare earth metals. Impala Environmental Consulting was appointed by the proponent to undertake an Environmental Assessment (EA) and Environmental Management Plan (EMP) for the mineral exploration project.

1.2 Location

The mineral license is located about 52 km southwest of Warmbad. The coordinates for the centre of the license are 18.392516 and -28.880873.

1.3 Environmental Assessment Requirements

The Environmental Regulations procedure (GN 30 of 2012) stipulates that no mining and mineral exploration activities may be undertaken without an environmental clearance certificate. As such, an environmental clearance certificate must be applied for in accordance with regulation 6 of the 2012 environmental regulations. It is imperative that the environmental proponent must conduct a public consultation process in accordance with regulation 21 of the 2012 environmental procedure, produce an environmental scoping report and submit an Environmental Management Plan for the proposed mineral exploration activities.

1.4 Project Alternatives

An alternative to the proposed mineral exploration activity would be to allocate the land-usage to other income generating activities tourism activities. The proposed project will strictly employ locals from nearby towns and settlements.



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FINAL SCOPING REPORT

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1. Introduction

1.1 Project Background

The proponent, Johan Van der Westhuizen, was granted an exclusive prospecting licence (EPL) by the Ministry of Mines and Energy. The licence holder intends to explore for lithium minerals and rare earth metals. An outline of the area is shown in the image below.

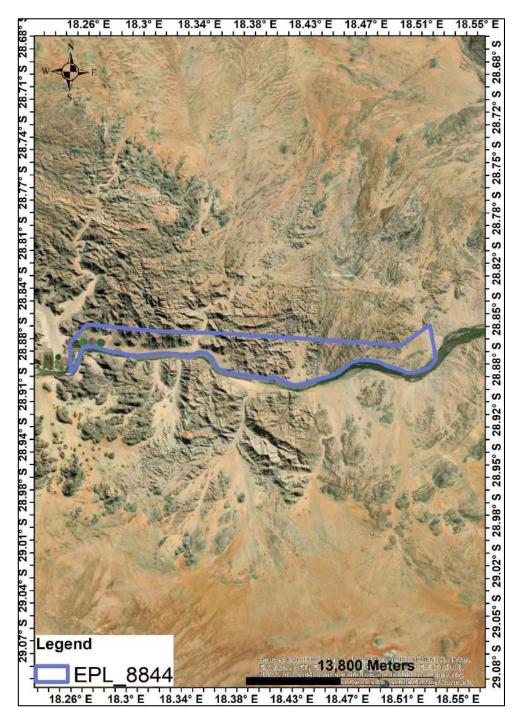


Figure 1 A satellite imagery showing the orientation of the mineral exploration licence.



Figure 2 shows the surrounding farms of the project area. The licence falls within a traditional authority area.

1.1.1 Mineral Licence Tenure

The exclusive prospecting number is 14/2/1/4/2/8844. The mineral licence is issued to Johan Van der Westhuizen.

The size of the mineral licence is **5879.7527 Hectares**. It is granted Base and Rare Metals, Industrial Minerals, Nuclear Fuel Minerals, Precious Metals and Precious Stones commodities.

1.1.2 Environmental Consultant

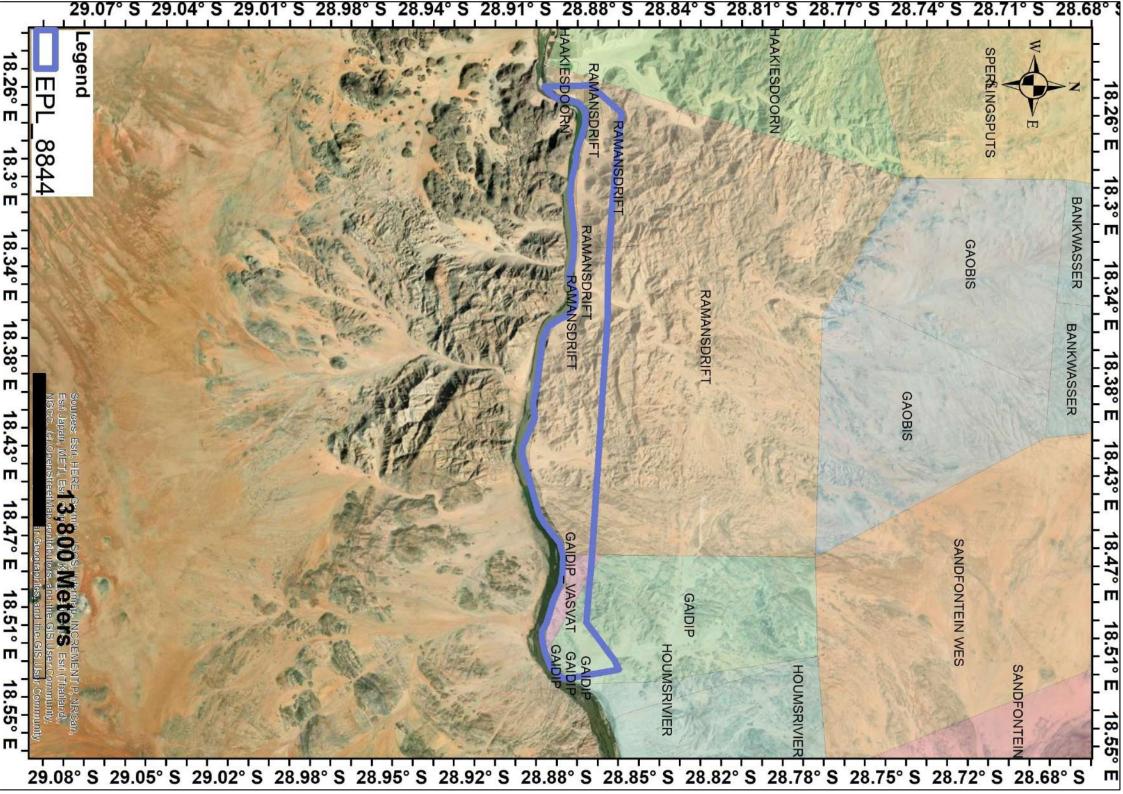
Impala Environmental Consulting cc was appointed by the proponent to undertake an Environmental Assessment (EA) and Environmental Management Plan (EMP) for the mineral exploration project. Impala does not have any interest, be it business, financial, personal or other, in the proposed activity, application or appeal, other than fair remuneration for work performed on this project. The public participation process and report writing was overseen by Mr. Ndaluka Amutenya as the EAP. CV's of various role players are annexed to the appendix section of this report.

1.1.3 Proponent of the Proposed Project

The Exclusive Prospecting Licence belongs to Gaya Investment CC.

Licence Holder	Postal Address	Email Address	Contact
Johan Van der	,		
Westhuizen	Windhoek, Khomas, 9000, Namibia		





1.2 Project Location

The mineral license is located about 52 km southwest of Warmbad. The coordinates for the centre of the license are 18.392516 and -28.880873.

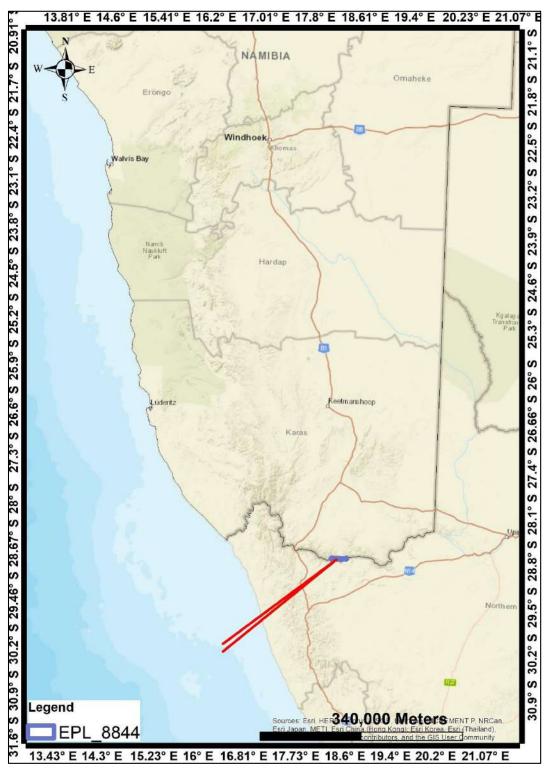


Figure 3 Locality map of the exclusive prospecting licence area



1.3 Infrastructure and Services

1.3.1 Electricity

At this stage, electricity requirements for the project are minimal. The bulk of the power supply to the exploration site will be sourced from the proponent's own generator. The power requirements for the proposed project will be minimal as power will only be required for the following activities:

- Emergency lighting.
- Powering small machinery during the mineral exploration process.
- Power supply for temporary office block or container if necessary.

1.3.2 Water Supply

The water requirements for the project are minimal. Water containers will be brought on site and utilised whenever necessary. The water will mostly be used for general consumption and cleaning. The water used for drilling will be recycled.

1.3.3 Refuse and Waste Removal

The proponent will negotiate directly will all suppliers of consumables such as grease, oil etc. to remove these materials for disposal once they have been used and need to be discarded. The proponent will provide adequate temporary sanitary facilities and such facilities must be maintained in a hygienic condition. Sewerage will be disposed of in a manner not polluting the environment. The proponent will remove all refuse pertaining to the proponent's activities, domestic or otherwise, from the property. The Miner will undertake environmental rehabilitation, both during and at the conclusion of the mineral exploration operations.

1.3.4 IT Systems and Communication

If drilling commences, provision will be made for two-way radios to enable the drill rig operators and the on-site staff to communicate effectively.

1.3.5 Security and Fencing

No provision has been made for fencing although strict access to and from the exploration site will be facilitated by personnel.



1.3.6 Buildings

At this stage, no exploration camp will be set up and so provision will be made for prefabricated containers.

1.3.7 Roads

Access to the mineral exploration sites is limited as there are currently no convenient roads, except for 4x4 tracks.

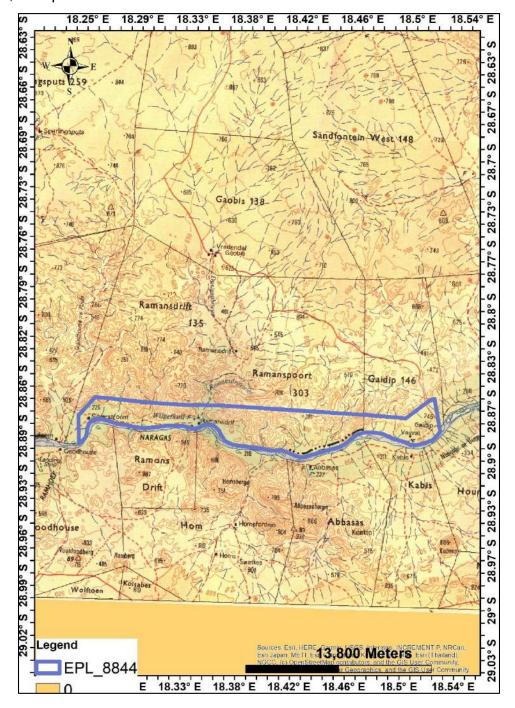


Figure 4 Topographic map showing the existing road network within the licence area.



1.3.8 Mobile Equipment

The proponent's vehicle fleet will be optimised during the next project phase. Provision will be made 4x4 vehicles and a drill rig.

1.3.9 Fuel Distribution, storage and supply

During the drilling phase, diesel will be delivered to the by road transport and offloaded into the vehicles by offloading pumps.

1.3.10 Storage of Lubrication and consumables

During the drilling phase, consumables and lubricants will be stored in a designated area within a container. These substances will only be used for mechanical purposes and are assumed to be non-hazardous.

1.3.11 Fire Fighting Provision

Portable fire-extinguishers will be fitted, as required, in vehicles and, as well as in the mobile containers where possible.

1.4 Environmental Impact Assessment Requirements

The Environmental Regulations procedure (GN 30 of 2012) stipulates that no mineral exploration activities may be undertaken without an environmental clearance certificate. As such, an environmental clearance certificate must be applied for in accordance with regulation 6 of the 2012 environmental regulations. It is imperative that the environmental proponent must conduct a public consultation process in accordance with regulation 21 of the 2012 environmental procedure, produce an environmental scoping report and submit an Environmental Management Plan for the proposed mineral exploration activities.

1.5 Purpose of the Scoping Report

The scoping report is prepared for the Environmental Impact Assessment for mineral exploration on an area which is located about 52 km southwest of Warmbad. Environmental scoping is a critical step in the preparation of an EIA for the proposed mineral exploration activities. The scoping process identifies the issues that are likely to be most important during the EIA and eliminates those that are of little concern. The



scoping process shall be concluded with the establishment of terms of reference for the preparation of an EIA, as set out by the Ministry of Environment and tourism. The purpose of this scoping report is to:

- Identify any important environmental issues to be considered before commencing with mineral exploration activities on the proposed mineral exploration sites.
- To identify appropriate time and space boundaries of the EIA study.
- To identify information required for decision-making.

As such, the key objectives of this scoping study are to:

- Inform the public about the proposed mineral exploration activities.
- Identify the main stakeholders, their comments and concerns.
- Define reasonable and practical alternatives to the proposal.
- To establish the terms of reference for an EIA study.

1.6 Terms of Reference

The approach and methodology taken was guided by the Environmental Regulations of 2012 and the Terms of Reference (ToR) which were provided by the proponent:

- Identify all legislation and guidelines that have reference to the proposed project.
- Identify existing environmental (both bio-physical and socio-economic) conditions of the area in order to determine their environmental sensitivity.
- Inform Interested and Affected Parties (I&APs) and relevant authorities of the details of the proposed development and provide them with a reasonable opportunity to participate during the process.
- Consider the potential environmental and social impacts of the development and assess the significance of the identified impacts.
- Compile a Scoping Report detailing all identified issues and possible impacts, stipulating the way forward and identifying specialist investigations, if required.



- Outline management and mitigation measures in an Environmental Management Plan (EMP) to minimize and/or mitigate potentially negative impacts.
- Submit the final scoping report to the competent authority and the Environmental Commissioner.



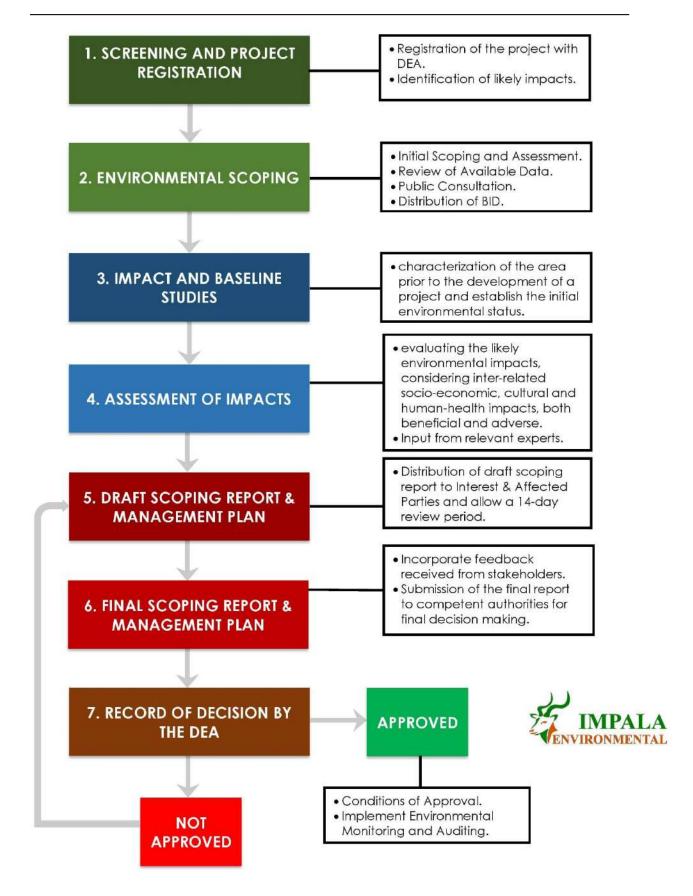


Figure 5 Flowchart of the Environmental Impact Assessment process followed in Namibia.



1.6.1 Environmental Assessment Approach and Methodology

Environmental assessment process in Namibia is governed by the Environmental Impact Assessment (EIA) Regulations No. 30 of 2012 gazetted under the Environmental Management Act, (EMA), 2007, (Act No. 7 of 2007) and in line with the provisions of the Cabinet approved Environmental Assessment Policy for Sustainable Development and Environmental Conservation of 1995.

This report has taken into consideration all the requirements for preparation of all the supporting documents and application for an Environmental Clearance Certificate and lodgement of such application to the Environmental Commissioner (EC), Department of Environmental Affairs (DEA) in the Ministry of Environment and Tourism (MET).

The purpose of the Scoping Phase was to communicate the scope of the proposed project to Interested and Affected Parties (I&APs), to consider project alternatives, to identify the environmental (and social) aspects and potential impacts for further investigation and assessment, and to develop the terms of reference for specialist studies to be conducted in the Impact Assessment Phase if necessary. The steps undertaken during the Scoping Phase are summarised below.

1.6.1.1 Project Initiation and Screening

The project registered on the online ECC portal (eia.met.gov.na) in order to provide notification of the commencement of the EIA process and to obtain clarity on the process to be followed.

1.6.1.2 Initial Scoping Public Participation Process

The objective of the public scoping process was to ensure that interested and affected parties (I&Aps) were notified about the proposed project, given a reasonable opportunity to register on the project database and to provide initial comments. Steps that were undertaken during this phase are summarised below:

 I&AP identification: A preliminary I&AP database was compiled using the farmer's contact details that were obtained from the Ministry of Lands and contact details of other interested and affected parties that were provided by the proponent. Additional I&AP's were added to the database based on



responses to the advertisements and notification letters, as well as attendees to the various meetings.

- Notification letter and Background Information Document (BID): A
 notification letter and Background Information Document was distributed for
 review and comment for a period of 3-4 weeks after commencement of the
 project.
- Advertisements and site notice: Advertisements announcing the proposed project, the availability of the BID, public meetings and the I&AP registration / comment period were placed in two widely distributed newspapers for two consecutive weeks. Site notices were placed on the boundaries of farm fences and on the notice boards of the Regional Council.

Over and above the issues raised were incorporated into the scoping report. These submissions were collated and responded to as indicated in the public participation section of the scoping report.

1.6.1.3 Compilation and Review of Draft Scoping Report (DSR)

The DSR was prepared in compliance with Section 8 of the EIA Regulations of 2012 and incorporated with comments received during the initial Public Participation Process. The DSR was distributed for a 14-day review and comment period.

1.6.1.4 Final Scoping Report and Completion of the Scoping Phase

The Final Scoping Report (FSR) summarises the following: the legal and policy framework; approach to the EIA and process methodology; the project's need and desirability; proposed project activities; key characteristics of the receiving environment; and key issues of concern that will be further investigated and assessed in the next phase of the EIA.

The FSR complies with Section 8 of the EIA Regulations 2012. All written submissions received during the DSR review and comment period will be collated and responded to. The FSR was submitted to the competent authority. In terms of Section 32 of the Environmental Management Act, 2007 (No. 7 of 2007), the competent authority is then required to make a recommendation on the acceptance or rejection of the report to Ministry of Environment and Tourism (MET): Department of Environmental Affairs (DEA), who will make the final decision.



1.6.2 List of Specialist Studies Undertaken

Section 9(a) of the Environmental Regulations of 2012 requires a disclosure of all the tasks to be undertaken as part of the assessment process, including any specialist to be included if necessary.

The mineral exploration project has not commenced yet. This means that the proponent has not conducted any surface exploration activities (i.e. geophysical survey, geological mapping and geochemical sampling) to find anomalies and determine suitable targets which can be tested with drilling. As such, no field specific specialist studies were commissioned by the proponent as no specific target area has been delineated yet. Although specialist studies were deemed unnecessary for this environmental impact assessment due to low intensity and extent of the exploration activities at this stage, a heritage impact assessment study was undertaken for this project. Specialist studies conducted in the area, in previous years, have been reviewed as part of the scoping and assessment process of this project.

After the proponent successfully drills a delineated target, undertakes a feasibility study and confidently decides to proceed with mining, a full environmental impact assessment will be carried out with appropriate site-specific specialist studies on groundwater, air-quality, fauna, flora, archaeology and avifauna.

1.7 Need and Desirability

1.7.1 Need of the Exploration Project

Mineral exploration companies play an important role in the development of a country's mineral resources. When minerals are mined, the company selling the product must pay a royalty to the government). The royalties are set by the government at a level that will encourage others to risk their capital in finding and developing these minerals, rather than the government risking taxpayer's money. This way the country can share in benefit of mineral resources without risking funds required for key everyday services to the community.

Namibia has a long tradition of mining. In 2018, mining contributed 14% of GDP and expanded 28%. In 2019, the mining industry contributed over 300 million dollars to government revenue. The whole industry contributed around 2.2 billion dollars to the national economy in the same period. However, a drop in diamond and uranium



production caused a contraction of 11,1%. Lower mineral commodity prices led to the declining expenditure on exploration. In 2019, the mining industry paid over 300 million dollars in wages and salaries and provided 16 324 direct jobs with 9 027 permanent employees. Temporary jobs figured out 800, while 6 515 were contractor jobs.

The exploration project may assist in helping Namibia attain some of the goals set out in National Development Plans such as the Fifth National Development Plan (NDP5) and the Harambee Prosperity Plan (HPP). During the exploration phase, the project will provide employment to at least 15 people from the surrounding towns and settlements. If the exploration project leads to the discovery of an economically viable mineral deposit, this may subsequently lead to the development of a mine within the area. A mine can significantly contribute to social-economic development around the surrounding community.

1.7.2 Alternatives

During the application of the exploration licence, no alternative sites were considered. The proposed exploration site has shown the potential to host an orogenic gold deposit.

1.7.2.1 Exploration Method Alternatives

Geochemical sampling and geological mapping methods will be used during the initial exploration period until a target is delineated. Thereafter, reverse circulation and diamond drilling methods will be employed to test the depth and extent of the mineralised rock units. If more modern, effective, and environmentally friendly exploration methods than the preferred ones are developed, such methods will be assessed and or considered.

1.7.2.2 No-Go Alternatives

The no-go alternative will mean that the current land activities such as farming and important vegetation species will not be disturbed, that is, there will not be disturbance of the flora and fauna.

No-go alternative will result in the non-exploration of minerals and bring beneficiations to the receiving environment. However, the no-go alternative is not considered since it will lead to negative socio-economic impacts.



2 Summary of applicable legislation

All mineral rights, related to mineral exploration activities in Namibia, are regulated by the Ministry of Mines and Energy whereas the environmental regulations are regulated by the Ministry of Environment and Tourism. The acts that affect the implementation, operation and management of mineral exploration activities in Namibia are shown below.

2.1 Environmental Management Act of 2007

Line Ministry: Ministry of Environment and Tourism

The regulations that accompany this act lists several activities that may not be undertaken without an environmental clearance certificate issued in terms of the Act. The act further states that any clearance certificate issued before the commencement of the act (6 February 2012) remains in force for one year. If a person wishes to continue with activities covered by the act, he or she must apply for a new certificate in terms of the Environmental Management Act.

2.2 The Minerals Prospecting and Mining Act of 1992

Line Ministry: Ministry of Mines and Energy

The Minerals Prospecting and Mining Act No.33 of 1992 approves and regulates mineral rights in relation to exploration, reconnaissance, prospecting, small scale mining, mineral exploration, large-scale mining and transfers of mineral licences.

2.3 Water Resources Management Act of 2004

Line Ministry: Ministry of Agriculture, Water and Forestry

The act provides for the management, protection, development, usage and conservation of water resources; to provide for the regulation and monitoring of water resources and to provide for incidental matters.

2.4 Nature conservation ordinance, ordinance No. 4 of 1975

Line Ministry: Ministry of Environment and Tourism

The Nature Ordinance 4 of 1975 covers game parks and nature reserves, the hunting and protection of wild animals (including reptiles and wild birds), problem animals, fish,



and the protection of indigenous plants. It also establishes a nature conservation board. The basic set of regulations under the ordinance is contained in GN 240/1976 (OG 3556). The topics covered in the regulations include tariffs (game parks), regulations relating to game parks, swimming baths, use of boats in game parks, inland fisheries, keeping game and other wild animals in capturing. In addition, the ordinance also regulates game dealers, game skins, protected plants, birds kept in cages, trophy hunting of hunt-able game, hunting at night, export of game and game meat, sea birds, private game parks, nature reserves, regulations of wildlife associations and registers for coyote getters.

2.5 National Heritage Act, 2004 (Act No. 27 of 2004)

Line Ministry/Body: National Heritage Council

The National Heritage Act provides for the protection and conservation of places and objects of heritage significance and the registration of such places and objects; to establish a National Heritage Council; to establish a National Heritage Register; and to provide for incidental matters.

2.6 Petroleum Products and Energy Act No. 13 of 1990

Line Ministry/Body: Ministry of Mines and Energy

The act regulates the importation and usage of petroleum products. The act reads as "To provide measures for the saving of petroleum products and an economy in the cost of the distribution thereof, and for the maintenance of a price thereof; for control of the furnishing of certain information regarding petroleum products; and for the rendering of services of a particular kind, or services of a particular standard; in connection with motor vehicles; for the establishment of the National Energy Fund and for the utilization thereof; for the establishment of the National Energy Council and the functions thereof; for the imposition of levies on fuel; and to provide for matters incidental thereof".

2.7 Forest Act, No. 12 of 2001

Line Ministry/Body: Ministry of Agriculture, Water and Forestry



The act regulates the cutting down of trees and reads as follows "To provide for the establishment of a Forestry Council and the appointment of certain officials; to consolidate the laws relating to the management and use of forests and forest produce; to provide for the protection of the environment and control and management of forest trees; to repeal the preservation of Bees and Honey proclamation 1923, preservation of Trees and Forests Ordinance, 1952 and the Forest Act, 1968; and to deal with incidental matters".

The constitution defines the function of the Ombudsman and commits the government to sustainable utilization of Namibia's natural resources for the benefit of all Namibians and describes the duty to investigate complaints concerning the over-utilization of living natural resources for the benefit of all Namibians and describes the duties to investigate complaints concerning the over-utilization of living natural resources, the irrational exploitation of non-renewable resources, the degradation and the destruction of ecosystem and failure to protect the beauty and character of Namibia. Article 95 states that "the state shall actively promote and maintain the welfare of the people by adopting; inter-alia policies aimed at maintenance of ecosystems, essential ecological processes and biological diversity of Namibia and utilization of natural resources on a sustainable basis for the benefit of all Namibians both present and future".

2.8 Atmospheric Pollution Prevention Ordinance 11 of 1976

Line Ministry/Body: Ministry of Health and Social Services

This ordinance provides for the prevention of air pollution and is affected by the Health Act 21 of 1988. Under this ordinance, the entire area of Namibia, with the exception of East Caprivi, is proclaimed as a controlled area for the purposes of section 4(1) (a) of the ordinance.

2.9 Hazardous Substance Ordinance, No. 14 of 1974

Line Ministry/Body: Ministry of Safety and Security

The ordinance provides for the control of toxic substances. It covers manufacture, sale, use, disposal and dumping as well as import and export. Although the



environmental aspects are not explicitly stated, the ordinance provides for the importing, storage and handling.

2.10 Namibian Water Corporation (Act 12 of 1997)

Line Ministry/Body: Namibian Water Corporation

The act caters for water rehabilitation of prospecting and mineral exploration areas, environmental impact assessments and for minimising or preventing pollution.

2.11 Public and Environmental Health Act, 2015

Line Ministry/Body: Ministry of Health and Social Services

provide a framework for a structured uniform public and environmental health system in Namibia; and to provide for incidental matters.

2.12 Agricultural (Commercial) Land Reform Act 6 of 1995

Line Ministry/Body: Ministry of Lands, Resettlement and Rehabilitation

To provide for the acquisition of agricultural land by the State for the purposes of land reform and for the allocation of such land to Namibian citizens who do not own or otherwise have the use of any or of adequate agricultural land, and foremost to those Namibian citizens who have been socially, economically or educationally disadvantaged by past discriminatory laws or practices; to vest in the State a preferent right to purchase agricultural land for the purposes of the Act; to provide for the compulsory acquisition of certain agricultural land by the State for the purposes of the Act; to regulate the acquisition of agricultural land by foreign nationals; to establish a Lands Tribunal and determine its jurisdiction; and to provide for matters connected therewith.



3 Description of Proposed Mineral exploration Project

3.1 Introduction

Lithium is an element valuable for the production of glass, aluminium products, and batteries. It is mined from ores of petalite (LiAl(Si2O5)2, lepidolite K(Li,Al)3(Al,Si,Rb)4O10(F,OH)2, spodumene LiAl(SiO3)2 and also subsurface brines. Australia and Chile are the world's largest producers of lithium.

Lithium was first discovered in the mineral petalite. Lepidolite and spodumene are other common minerals which contain lithium. Commercial quantities of these three minerals are in a special igneous rock deposit that geologists call pegmatite. In pegmatites, magma cools so slowly that crystals have time to grow very large. Because lepidolite is a type of mica, its crystals grow into long thin sheets.

Lithium is often recovered from brine, or water with a high concentration of lithium carbonate. Subsurface brines trapped in the Earth's crust are a major source material for lithium carbonate. These sources are less expensive to mine than from rock such as spodumene, petalite, and other lithium-bearing minerals.

Lithium compounds are used in ceramics and glass, in primary aluminium production, in the manufacture of lubricants and greases, rocket propellants, vitamin A synthesis, silver solders, underwater buoyancy devices, and increasingly in batteries. Lithium batteries are proving to be an effective and affordable alternative to traditional batteries, and also in new battery applications. More than 50% of lithium mined is used in batteries. This use has recently increased rapidly spurring an increase in lithium mining to provide the lithium for batteries. Lithium is mixed with other light metals such as aluminium and magnesium to form strong, light-weight alloys (an alloy is a mixture of metals). Some lithium, in the form of lithium carbonate or lithium citrate, is used as medicine to treat gout (an inflammation of joints) and to treat serious mental illness.

3.2 Techniques for Mineral Exploration

3.2.1 Target Generation

Target generation involves certain stages, such as mapping, geochemical survey and remote sensing. Mapping includes development of the geological, topographical (base), geochemical, and structural maps. Geological map focuses on identifying and



mapping outcrops, describing mineralization and alteration zones, and making geological cross sections. In other words, it relies on the identification of rocks and minerals and the understanding of the environment in which they form. It aims to find what rock types occur at or close to the surface and how these rock types are related to each other, e.g., by defining their boundaries, ages, and structure. Topographical map, which is a base map, depicts the topographical features (contour, hill, stream, etc.). Geochemical map includes surface sample locations and results, including analyses of rock, silt, and soil samples. Geophysical map depicts the geology and results obtained from geophysical survey. Structural map shows the orientation data (strike, dip, type, etc.) of bedding planes, faults, folds, joints and other structural features. They are all gathered to be used for the interpretation in copper mineral exploration (Mentes, 2012).

3.2.1.1 Geochemical Survey

Geochemical survey is a kind of sampling method in mineral exploration and results in 'Assay' after laboratory works. Exploration geochemistry has evolved from its early origins using the chemistry of the environment surrounding a deposit in order to locate it. In mineral exploration studies, geochemical methods involve the geochemical analysis of geological materials, including rock, soil, and stream sediment or silt sediment. In addition to these surface samples, any materials obtained from drilling can be analyzed for the evaluation. This survey provides physical results to be worked on for the further interpretation and is used for identifying geochemical anomalies, which are used for geochemical mapping (Mentes, 2012). During the first phase, the type of sampling methods that will be applied are bulk sampling.

3.2.1.2 Remote Sensing

Remote Sensing is the collection of information about an object or area without being in physical contact with it. Data gathering systems used in remote sensing are photographs obtained from manned space flights or airborne cameras, and electronic scanner or sensors such as multispectral scanners in satellites or airplanes and TV cameras, all of which record data digitally. Aerial photography and satellites allow people to work with modern techniques. Aerial photography is used to sense the amount (quantity) of mineral in a particular area. The mineral exploration team collects information such as tracks, roads, fences, and habitation, as well as maps of outcrops,



regolith, and vegetation cover across a region. Landsat image (satellite imagery) is used both for the visible light spectrum over mineral exploration (Mentes, 2012).

3.2.2 Target Drilling

Target drilling is the process whereby rigs or some operated tools are used to make boreholes to intercept a rock unit. It can be done by contractors with more experienced operators. This method is used to obtain very detailed information about rock types, mineral content, and rock fabric, and the relationships between rock layers close to the surface and those at depth. Then, subsurface geology in an area is evaluated after the results are obtained. That indicates if the potentially economic resources are present or not.

3.2.3 Resource Evaluation

It is an evaluation of tonnage (volume) and grade (concentration or weight percent) of the ore body. The volume is determined by using drill data to outline the deposit in the subsurface, and by using geometric models to calculate the volume. The grade is the average concentration determined from numerous assays of drill samples. The purpose of the resource evaluation is to understand the possibility to expand the known size of the deposit and mineralization. This step should give an information or idea about proceeding of mineral exploration activities. Resources at this work are determined during exploration and do not provide certain results of grade and tonnage. In order to get an exact size, quality of the commercial mineral, 'reserve definition', which is next step of mineral exploration studies, is used (Mentes, 2012).

3.2.4 Resource Definition

Reserve definition is important to transform a mineral resource into an economic asset, which is an ore reserve and find the answer if it is valuable or not. 'Reserve' is more intensive, technical, and well characterized term with its exact quality and size relative to 'Resource'. Also, reserve estimation may be changed over time because of the assessments during and after the mining. The main purpose of this stage is the making decision on the techniques just before extraction as a result of the results. It includes technical, economic evaluation, geotechnical assessment, and engineering studies of the rocks surrounding the deposit to determine the potential parameters of proposed



open pit or underground mining methods. At the end of this process, a feasibility study is published, and the deposit is supposed to either be uneconomic or economic.

3.3 Labour Requirements

The proponent intends to employ about 5-15 personnel, including 3 management staff for the first phase of the project. The employees will be sourced from the local community including people from Warmbad. All employees will undergo a safety induction, first aid training course and wildlife awareness program. The Labour Act of 2007 will always be adhered to.



4 Description of the Current Environment

4.1 Introduction

This section aims to document the present state of the environment, the likely impact of changes being planned and the regular monitoring to attempt to detect changes in the environment. As such, this area represents a high fauna diversity.

Namibia has four very large and arid regions which set them apart in various ways from the rest of the country; Kunene and Erongo region in the west and Karas and Hardap in the south (Mendelsohn, et al., 2002). Karas Region is the southernmost region of Namibia. The name assigned to the region reflects the prominence of the Karas mountain range in its southern part. Karas' western border is the shores of the Atlantic Ocean. Its location in Namibia's south means that it shares a long border in the south and east with the Northern Cape Province of South Africa. Domestically, it borders only the Hardap Region, to the north.

The Protected Area Zone of Karas Region stretches from the Namib Naukluft Park south towards the Orange River, including the Sperrgebiet National Park, the /Ai-/Ais Hot Springs Park, the Gondwana Canyon Park, the Greater Fish River Canyon Complex (GFRCC), Naute Dam and all four existing communal conservancy areas in the Region.

The farming activities in Karas Region is dedicated to farming with small stock, predominantly sheep.

4.2 Climatic Conditions

4.2.1 Temperature

The EPL lies within the Warmbad area where the average annual temperatures lie between 28- 11°C. January is the warmest month with an average summer temperature of over 28°C, while June is the coldest month, with mild average winter temperatures of about 11°C.



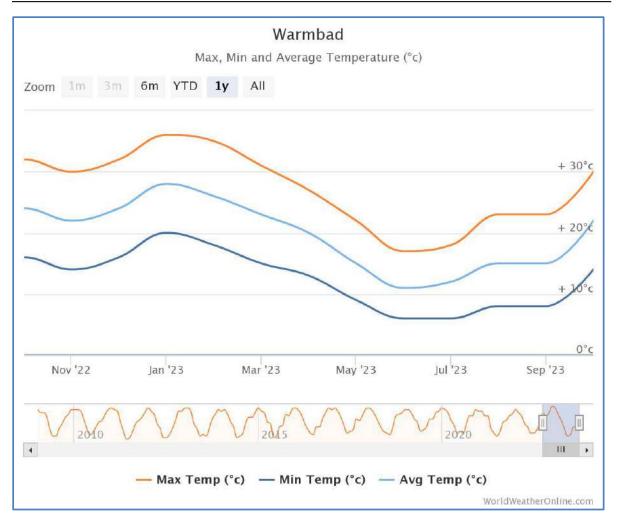


Figure 6 A graph showing the temperature patterns in Warmbad, from www.worldweatheronline.com

Overall, winters are mild in temperature, with coldest month most often being June.

4.2.2 Precipitation

In the proposed area, the highest rainfall is usually experienced in December which may reach 38.9 mm with average rainfall days of 2. The graph below shows the rainfall patterns in the area



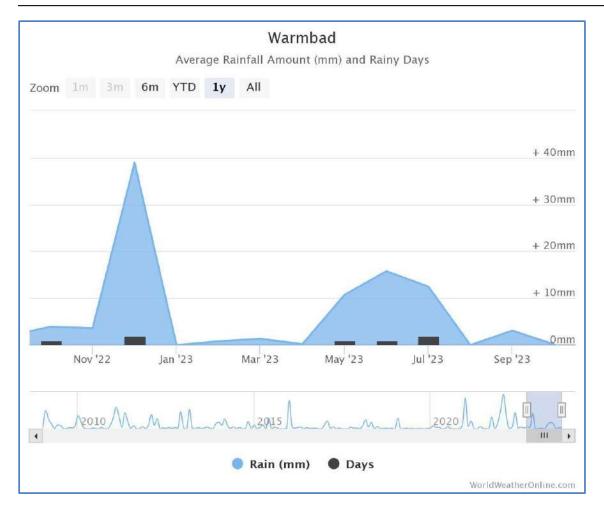


Figure 7 A graph showing rainfall patterns in Warmbad, from www.worldweatheronline.com

4.2.3 Wind

Predominantly south easterly. Southerly, easterly and northerly airflow is common in Warmbad. The strongest winds in Warmbad are experienced in January with a wind speed of 31.8 kmph.





Figure 8 A graph showing windspeed patterns in Warmbad, from www.worldweatheronline.com

4.2.4 Humidity

The relative humidity during the least humid month of the year, i.e., January is 25% and the most humid month is June, with about 54 relative humidity. Namibia has low humidity levels in general, and the lack of moisture in the air has a major impact on its climate by reducing cloud cover and rainfall, an in turn increasing the rate of evaporation.



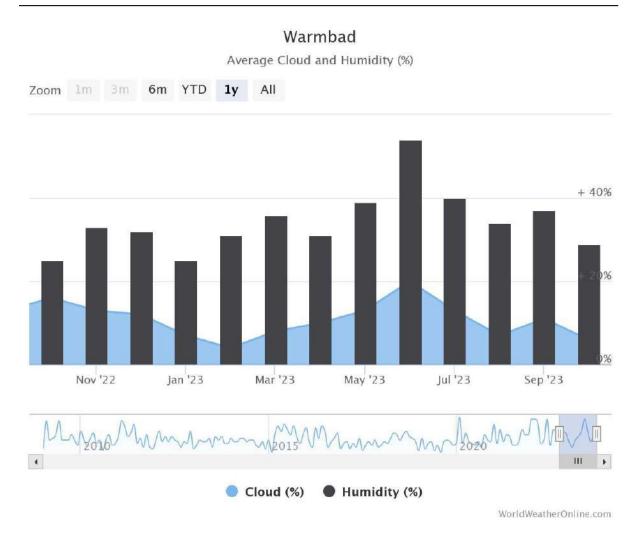


Figure 9 A graph showing the humidity patterns in Warmbad, from www.worldweatheronline.com

4.2 Air Quality

Activities around the exploration licence area mainly consist of tourism and small-scale livestock farming. Besides other exploration activities, there are no other industries or operating mines in the area or mines in the area. Probable sources of air pollution in the area are emissions and dust from vehicles travelling on gravel roads, dust generated by cattle grazing and wind erosion from the exposed areas.

 PM_{10} describes all particulate matter in the atmosphere with a diameter equal to or less than 10 μ m and are generally emitted from motor vehicles (diesel engines) and burning of wood. $PM_{2.5}$ describes all particulate matter in the atmosphere with a diameter equal to or less than 2.5 μ m and are mostly related to combustion. NO_2 and nitric oxide (NO) are formed simultaneously in combustion processes and other high temperature operations such as blast furnaces. Sources of SO_2 include fossil fuel



combustion from industry and power plants. SO₂ is emitted when coal or other biomass fuels are burnt for energy.

Data from accuweather.com shows that the air quality in the area is generally excellent with an air quality index of 18 AQI. The ground-level ozone (O₃) is about 18 μ g/m³ which is excellent. The fine particle matter levels (PM _{2.5}) are about 15 μ g/m³. The particle matter (PM₁₀) is about 10 μ g/m³. The nitrogen dioxide (NO₂), carbon monoxide (CO), and sulphur dioxide (SO₂) levels in the area are recorded to be 1 μ g/m³.

4.3 Geology

4.3.1 Geological setting

The mineral exploration area is located within part of the Richtersveld geological province. The area lies within the Vioolsdrif volcanic suite of andesitic lavas, intercalated with acidic volcanics and tuffs, intruded by granites, granodiorites and adamellites dated around 1800 Ma.

The epl area is underlain by the Vioolsdrift granite complex and gneisses of the Namaqua Metamorphic Complex. The major rock types are medium-grained pink feldspar granites with a grey weathered surface and medium to coarse-grained biotite gneisses containing minor pegmatitic veins and quartz veins. The biotite gneisses contain up to 90% biotite and have been intruded locally by medium to coarse-grained alaskitic pegmatites comprised of quartz, feldspar, and minor biotite. White alaskite pegmatites outcrop in some areas, occurring as sills and irregular intrusions. The igneous rocks are subdivided into the 1730-2000 Ma and 1000-1200 Ma groups, which represent the two periods of igneous activity (Miller, 2008).



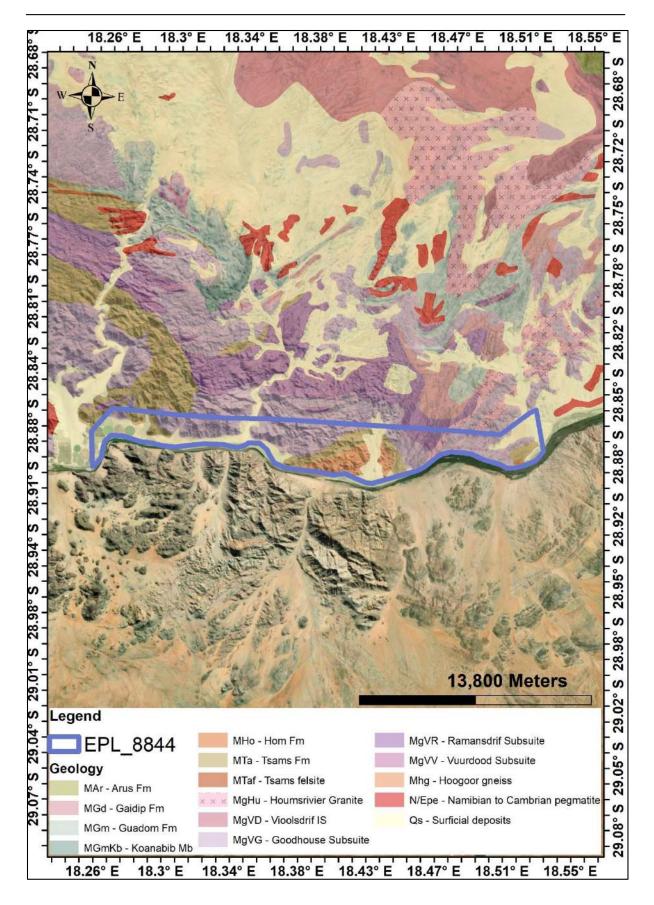
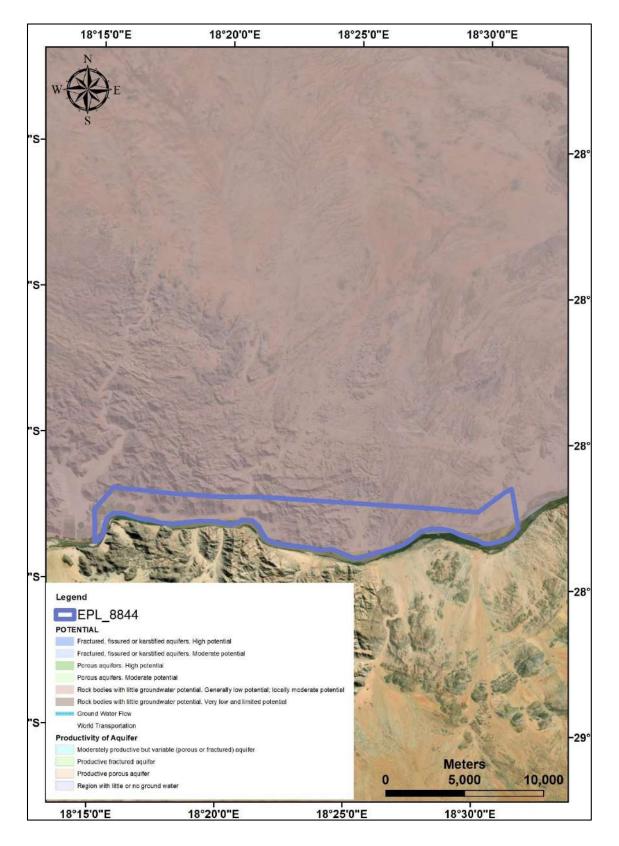


Figure 10 A geological map of the area



4.4 Hydrogeology and Water Resources

The area is underlain by rocks with little groundwater potential.





4.5 Flora

The study area is characterised by low-medium botanical diversity. Based on site visits and the literature review, all the vegetation that are found within the vicinity of the area are of "medium" to "high" sensitivity against external conditions.

There are several tree species that occur in the area. These species include Camel Thorn, Shepard's Tree, Grey Camel Thorn, and the Ebony Tree. Camel Thorn occurs in dry woodland along watercourses in arid areas where underground water is present as well as on deep Kalahari sands and is therefore relatively common in the study area. Grey Camel Thorn occurs on deep Kalahari sand between dunes or along dry watercourses and occurs sparsely within the study area. Shepard's Tree occurs in semi-desert areas and bushveld but is common on sandy to loamy soils and calcrete soils and is relatively common within the study area, primarily along secondary watercourses and areas adjacent to the primary watercourses. Ebony Tree occurs in semi-desert and desert areas, usually along watercourses and in depressions and could occur in the hills or on the flats within the study area.

The most important plant species found in the study area are the quiver trees (Aloe dichotoma). As succulents, they can store water quickly in their leaves and trunks, and thus often grow in arid areas where few other trees survive.

Grass is dependable on rainfall, which in-turn causes livestock and other animals to suffer during periods of minimal rainfall (Burke, 2003). The mineral exploration area, which is semi-arid, contains a few vegetation species which include a number of species endemic to Namibia. Table 1 below lists the different plant species which are most likely to occur within the project area.

Table 1 A table showing plant species which are likely to occur in the area

SCIENTIFIC NAME	COMMON NAME	STATUS IN NAMIBIA
Acacia erioloba	Camel thorn	Protected
Acacia mellifera	Black thorn	Secure
Acacia reficiens	False umbrella thorn	Secure
Acacia haematoxylon	Grey camel thorn	Protected
Acacia erubescens	Blue thorn	Secure
Acacia karroo	Sweet thorn	Secure



Acacia tortolis	Umbrella thorn	Secure
Acacia hereroensis	False hook-thorn	Secure
Boscia albitrunca	Shepherd's tree	Protected
Albizia anthelmintica	Worm-bark false-thorn	Protected
Ziziphus mucronata	Buffalo-thorn	Protected
Catophractes alexandri	Trumpet thorn	Secure
Euclea pseudebenus	Ebony tree	Protected
Ficus cordata	Namaqua fig	Protected

The density of vegetation in the vicinity of the mineral exploration site is sparse. Every effort will be made to protect the existing trees and schrubs, as these are very important to the ambience and visual appeal of the mineral exploration site. A vegetation expert will be consulted throughout the lifecycle of the mineral exploration program. The protected plant species in the project area are shown in the table below.

Table 2 Table of plant species which are protected under the Forestry Act and likely to occur in the area.

SCIENTIFIC NAME	COMMON NAME
Acacia erioloba	Camel thorn
Acacia haematoxylon	Grey camel thorn
Albizia anthelmintica	Worm-bark false-thorn
Boscia albitrunca	Shepherd's tree
Euclea pseudebenus	Ebony tree
Ficus cordata	Namaqua fig
Ficus sycomorus	Common cluster fig
Maerua schinzii	Ringwood tree
Ozoroa crassinervia	Namibian resin tree
Searsia (Rhus lancea)	Karree
Sterculia Africana	African star-chestnut

4.6 Fauna

4.6.1 Introduction

The information is based on a detailed literature review and a site visit which was carried out. The purpose of the Fauna literature review is to identify all potential



amphibians, reptiles, and mammals expected on the project area and the surrounding farms in the vicinity of the mineral exploration area. The proposed mineral exploration area supports numerous faunal species but there are no species that are exclusive to the study area.

Larger types of animals such as zebras, giraffes, lions and elephants are rare in this area. There are no species which are exclusively endemic to the exploration area. Based on literature review, development of a mineral exploration project in the area will not have a negative impact on any of the species in the project area.

4.6.2 Amphibians

Based on the literature review, there are generally 14 types of amphibian species that occur in project area. Nine of these amphibian species occur abundantly, two occur rarely and six of them occur uncommonly. Griffin (1998) highlighted that amphibian species are declining throughout the world due to various factors such as climate change and habitat destruction. There are approximately 4000 species of amphibians worldwide of which over 200 species are present in Southern Africa and 57 in Namibia (Griffin, 1998). However, this low figure may be due to the lack of detailed studies carried out on amphibians. The table below shows the different amphibian species that are likely to occur within the study area.

Table 3 A list of amphibian species which may occur in the project area

SCIENTIFIC NAME	COMMON NAME	STATUS	OCCURRENCE	REFERENCE
PLATANNAS				
Xenopus laevis	COMMON PLATANNA	SECURE	ABUNDANTLY	(Daudin, 1802)
TOADS				
Breviceps adspersus	BUSHVELD RAIN FROG	SECURE	ABUNDANTLY	Peters, 1882
Bufo dombensis	DOMBE DWARF TOAD	ENDEMIC & INADEQUETLY KNOWN	ABUNDANTLY	Bocage, 1895
Bufo poweri	MOTTLED TOAD	SECURE	ABUNDANTLY	Hewitt, 1935



FOSSORIAL FROGS	S			
Phrynomantis affinis	SPOTTED RUBBER FROG	AMBIGUOUS (RARE?)	RARELY	(Boulenger, 1901)
Phrynomantis bifasciatus	BANDED RUBBER FROG	SECURE	ABUNDANTLY	(Smith, 1848)
SAND FROGS, BUL	LFROGS, RIDGED FI	ROGS, CACOS, P	UDDLE FROGS e	tc.
Cacosternum boettgeri	COMMON CACO	SECURE	ABUNDANTLY	(Boulenger, 1882)
Hildebrandtia ornata	ORNATE FROG	SECURE	UNCOMMONLY	(Peters, 1878)
Phrynobatrachus mababiensis	MABABE PUDDLE FROG	SECURE	UNCOMMONLY	FitzSimons, 1932
Phrynobatrachus natalensis	SNORING PUDDLE FROG	SECURE	UNCOMMONLY	(A. Smith, 1849)
Pyxicephalus adspersus	GIANT BULLFROG	SECURE	ABUNDANTLY	Tschudi, 1838
Tomopterna krugerensis	KNOCKING SAND FROG	SECURE	RARELY	Passmore et al, 1975
Tomopterna tandyi	TANDY'S SAND FROG-	SECURE	ABUNDANTLY	Channing et al, 1996
TREE FROGS, REE	D FROGS & KASSIN	AS		
Kassina senegalensis	BUBBLING KASSINA	SECURE	ABUNDANTLY	(Dumèril et al, 1841)

4.6.3 Mammals

Based on the literature review, there are generally about 68 species of mammals expected to occur within the immediate area. There are generally 25 species which rarely occur, 2 species that occur seasonally, 4 that occur occasionally, and 33 that occur abundantly within the project area. Considering the relative size of the mineral exploration area, the mammal fauna will not be affected by the mineral exploration activities of the proponent. Namibia is seemingly well endowed with mammal diversity with around 250 species know to be present within the country (Griffin, 1998). There are currently 14 mammal species which are considered to be endemic to Namibia, including 11 species of rodents and small carnivores which are not well known. Griffin (1998), points out that most of these endemic mammals are associated with the Namib and Escarpment with 60% of these appearing to be rock-dwelling species. The author, Griffin (1998) further highlights that the endemic mammal fauna is best characterized by the endemic rodent family *Petromuridae* (Dassie rat) and the rodent genera *Gerbillurus* and *Petromyscus*. The table below shows the mammal species which are



likely to occur within the study area. A full list, of mammal species that are likely to occur within the area, is in the appendix section at the end.

Table 4 Mammal species which are likely to occur within the project area.

SCIENTIFIC NAME	COMMON NAME
Acinonyx jubatus	Cheetah
Antidorcas marsupialis	Springbok
Atelerix frontalis angolae	Southern African Hedgehog
Canis mesomelas	Black-backed Jackal
Caracal caracal	Caracal
Crocuta crocuta	Spotted Hyena
Cynictis penicillata	Yellow Mongoose
Equus zebra hartmannae	Hartmann's Mountain Zebra
Felis nigripes	Black-footed Cat
Felis silvestris/lybica	African Wild Cat
Galerella sanguinea	Slender Mongoose
Genetta genetta	Small Spotted Genet
Ictonyx striatus	Striped Polecat
Lepus capensis	Cape Hare Secure
Lepus saxatilis	Scrub Hare
Manis temminckii	Ground Pangolin
Mellivora capensis	Honey Badger/Ratel
Oreotragus oreotragus	Klipspringer
Oryx gazella	Gemsbok
Otocyon megalotis	Bat-eared Fox
Panthera pardus	Leopard
Parahyaena (Hyaena) brunnea	Brown Hyena
Phacochoerus africanus	Common Warthog
Proteles cristatus	Aardwolf
Raphicerus campestris	Steenbok
Suricata suricatta marjoriae	Suricate
Sylvicapra grimmia	Common Duiker
Tragelaphus strepsiceros	Greater Kudu
Vulpes chama	Cape Fox

4.6.4 Reptiles

The literature review showed that there are approximately 60 reptile species that are expected to occur in the site area. According to the Namibia Conservation Ordinance of 1975, there are four reptile species protected, namely:

Table 5 Protected reptile species in the project area

SCIENTIFIC NAME	COMMON NAME	STATUS
Psammobates Oculiferus	Kalahari Tent Tortoise	Protected
Python Natalis	Southern African Python	Protected



Geochelone Pardalis	Leopard Tortoise	Protected
Varanus Albigularis	Veld Leguaan	Protected

Griffin (1998) highlighted the presence of 261 species of reptiles which are present in Namibia. These reptiles make up 30% of the reptile species found on the continent. 55 species of Namibian Lizards are classified as endemic (Griffin, 1998). The author, Griffin (1998), describes that more than 60% of the reptiles found in Namibia are protected by the conservation Ordinance. Although mineral exploration activities do affect reptile habitat, the project will not have any significant impact on the reptile species within the proposed mineral exploration area. Namibia, with 129 species of lizards, has one of the continent's richest lizard Fauna. The table in the appendix shows the reptile species which are likely to occur within the vicinity of the mineral exploration area.

4.7 Avifauna (Birds)

Simmons et al (2003) points that although Namibia's Avifauna is comperatively sparse compared to the high rainfall equatorial areas elsewhere in Africa, approximately 658 species have already been recorded with a diverse unique group of arid endemics. There are approximately 650 species of birds that have been recorded in Namibia, although the country's avifauna is comparatively sparse compared to the high rainfall equatorial areas in Africa (Brown & Lawson, 1989). Brown et al (1989) mentions that 14 species of birds are endemic or near endemic to Namibia with the majority of Namibian endemics occurring in the Savannah of which ten species occur in a north-south belt of dry Savannah in Central Namibia. Simmons (2003) recorded 63 species of birds within the vicinity of the project area. 650 bird species are recorded in Namibia, of which 160 species are present in area, especially after good rains fall (Christian, 2005). These birds consist of raptors, chats, larks and karoid species. Christian (2005) recorded the presence of the following bird species in the vicinity of the area, which include:

Table 6 Bird scpecies which are likely to occur within the site area.

SCIENTIFIC NAME	COMMON NAME
Agapornis roseicollis	Rosy-faced Lovebird
Eupodotis rueppellii	Rüppell's Korhaan
Lanioturdus torquatus	White-tailed Shrike



Parus carpi	Carp's Tit
Phoeniculus damarensis	Violet Wood-Hoopoe
Poicephalus rueppellii	Rüppell's Parrot
Pternistis hartlaubi	Hartlaub's Spurfowl
Tockus damarensis	Damara Hornbil
Tockus monteiri	Monteiro's Hornbill

A full list of bird species within the area is shown in the appendix.

4.8 Archaeology and Heritage Sites

A separate archaeological study is attached to this report.

4.9 Socio-Economic Environment

4.9.1 Demographics of Warmbad

Warmbad (Afrikaans and German for Warm Bath, Nama: Aixa-aibes) is a settlement located in the Karas Region of southern Namibia. It is situated south of Karasburg at the Homs River, close to the border with South Africa, and belongs to the Karasburg electoral constituency.

First occupied by traders, hunters, and missionaries of different congregations, the hot springs from which the settlement's name is derived were first exploited at the beginning of the 20th century and are now been developed into a tourist attraction. Recently, a tantalite mine was reopened within the vicinity of the area.

Climatically, Warmbad lies between the coastal desert and the Karoo. There is winter frost and very little rainfall. The majority of Warmbad's approximately 1,200 inhabitants live in abject poverty, 90% are unemployed. There is no industry in the area, residents survive from old-age pensions and subsistence goat farming. The settlement features a school for 160 learners, a museum, situated in the former police station, and a church.

4.9.2 Social Economic Impact

Although a few people (including farmers) and animals might be negatively affected by dust and noise, the explorer will ensure that these aspects are properly mitigated.



With the potential employment of 15 people, this means that 15 families will benefit from the project during the exploration phase. The project has great potential to improve livelihoods and contribute to sustainable development within the surrounding community. Community meetings will be held from time to time by the proponent wherever possible, with the purpose of effectively communicating with the local community and to avoid any unexpected social impacts.



5. Assessment of Impacts

The purpose of this assessments of impacts section is to identify and consider the most pertinent environmental impacts and to provide possible mitigation measures that are expected from the mineral exploration activities on EPL 8844. Two different phases are associated with the proposed development. Firstly, the target generation (mapping and sampling) phase, and secondly the drilling phase are being covered by this assessment. Should the mineral exploration activities cease in the future, an EIA will need to be conducted to deal with the associated changes to environment. Mitigation measures for the identified impacts are also provided in this Section.

The following assessment methodology was used to examine each impact identified:

Table 7 Assessment methodology used to examine the impacts identified

Evaluation Criteria	Symbol	Significance of Rating	
Nature of impact:	P or N	Effect the proposed activity would have on the affected environment which is positive (P) or negative (N)	
Extent of impact:	0	On-Site (the site and it's immediate surrounds)	
	L	Local (Mineral exploration Area)	
	R	Regional (Karas Region)	
	N	National (Namibia)	
	I	International	
Duration of impact:	SD	Short Duration (0 to 5 years)	
	MD	Medium Duration (5 to 15 years)	
	LD	Long Duration (lifetime of the development)	
Intensity of impact:	L	Low intensity where the natural, cultural and social functions and processes are not affected.	
	M	Medium intensity where the affected environment is altered but natural, cultural and social functions and processes can continue.	
	Н	High intensity where the affected environment is altered to the extent that natural, cultural and social functions and processes will temporarily or permanently cease.	
Probability of impact:	LP	Low probability is when the possibility of the impact occurring is low.	
	P	Probable is when there is a distinct possibility that it will occur.	
	HP	Highly probable is when the impact is most likely to occur.	
	D	Definite where the impact will occur.	
Significance of Impact: Further subdivided into impacts with mitigation (MM) measures and impacts with no mitigation measures (NMM).	L	Low Significance is when natural, cultural, social and economic functions and processes are not affected. If the impacts are adverse, mitigation is either easily achieved or little will be required, or both. If impacts are beneficial, alternative means of achieving this benefit are likely to be easier, cheaper, more effective and less time=consuming	



М	Medium Significance is when the affected environment is altered but natural, cultural, social and economic functions and processes can continue. An impact exists but is not substantial in relation to other impacts that might take effect within the bounds of those that could occur. In the case of beneficial impacts, other means of achieving this benefit are about equal in time, cost and effort.
Н	High Significance is when the affected environment is altered to the extent that natural, cultural, social and economic functions and processes will temporarily or permanently cease. If impacts are adverse, there is no possible mitigation that could offset the impact, or mitigation is difficult, expensive, time consuming or a combination of these. In the case of beneficial impacts, the impact is of a Substantial order within the bounds of impacts that could occur.

5.1. Overall socio-economic benefits and issues

5.1.1. Socio-economic benefits

With the potential employment of 15 people, this means that 15 families will benefit from the project during the exploration phase. The project has great potential to improve livelihoods and contribute to sustainable development within the surrounding community. Community meetings will be held from time to time by the proponent wherever possible, with the purpose of effectively communicating with the local community and to avoid any unexpected social impacts.

5.1.1.1. Potential Direct Benefits

Direct capital investment: The mineral exploration project will require a significant capital investment of at least N\$ 10 million. This will be used for mapping, sampling and drilling.

Stimulation of skills transfer: Due to the nature of mineral exploration projects, the proponent will implement ad-hoc training programme for some of its staff members. Training programmes will be well structured and staff members will permanently benefit from these training programmes.

Job creation: With the potential employment of 15 people, this means that 10 families will benefit from the project during the on-going phase. The project has a great potential to improve livelihoods and contribute to sustainable development within the surrounding community.



5.1.1.2. Potential Indirect Benefits

- The data generated from the exploration programme will be made available to the Ministry of Mines and Energy for future research purposes.
- General enhancement of the health conditions and quality of life for a few people in the surrounding settlements.
- Of significance is the prospect of diversification of the surrounding economy, which is presently mainly focussed on small-scale farming and small-scale mining of semi-precious stones.

5.1.1.3. General socio-economic concerns

Notwithstanding the above benefits there are a few concerns that could reduce or counteract the above benefits related to the project, as follows:

- As the movement of staff and contractors to and from the area increases, the risk of spread of HIV/AIDS increases.
- Increased influx of people to the area as people come in search of job opportunities during the target generation and drilling phase of the mineral exploration project; and
- Increased informal settlement and associated problems.

Table 8 Impact evaluation for socio-economy

Identified	Significance		Duration	Extent	Intensity	Probability
Impact	NMM	MM				
Increased spread of HIV/AIDS	М	L	LD	N	M	LP
Increased influx of people to the area	L	L	SD	L	L	Р
Increased informal settlement in the area	М	L	MD	L	L	LP

5.2. Mineral Exploration phases and associated issues

5.2.1. Mapping and Geochemical Sampling Phase of the Project

The following potential effects on the environment during the target generation phase of the mineral exploration project have been identified:



5.2.1.1. Dust

Dust may be generated during this phase and might be aggravated during the winter months when strong winds occur. Dust will be generated by the vehicles moving in the area. Fall out dust settling on vegetation is likely to cause local disruptions in herbivorous and predatory complexes and should be minimised as far as possible.

5.2.1.2. Noise

Noise will most likely be generated by vehicles during the target generation phase. It is recommended that vehicle movement be limited to normal daytime hours to allow nocturnal animals to roam freely at night.

5.2.1.3. Safety and Security

During mapping and sampling, small tools and equipment will be used on site. This increases the possibility of injuries and the responsible manager must ensure that all staff members are briefed about the potential risks of injuries on site. The manager is further advised to ensure that adequate emergency facilities, including first aid kits, are available on site. All Health and Safety standards specified in the Labour Act should be complied with.

Should a camp be necessary at a later stage, it should be in such a way that it does not pose a risk to the community members and wildlife that roam the area.

5.2.1.4. Visual

The proposed exploration area is situated more than 1 km from any main road. As such, any visual impact that might be caused by the exploration team are minimal. In some parts of the area, the topography of the mineral exploration site is slightly elevated.

Table 9 Impact evaluation for the target generation phase of the project

Identified	Signif	icance	Duration	Extent	Intensity	Probability
Impact	NMM	ММ				
Dust	L	L	SD	L	L	Р
Noise	М	L	SD	L	М	D
Safety & Security	L	L	SD	0	L	Р
Visual	L	L	MD	0	L	LP



5.2.2. Drilling Phase of the Project

During the operation phase of the project, a few holes will be drilled into the orebody. To conveniently refuelling company vehicles without driving long distances, a small portable fuel storage tank will be brought on site.

5.2.2.1. Air Quality

In terms of air quality, emissions will be given off by 4x4 vehicles and the drill rig but not to an extent that warrants concern. Dust will also be produced by the drill rig and the movement of vehicles in the area.

5.2.2.2. Fire and Explosion Hazard

Hydrocarbons are volatile under certain conditions and their vapours in specific concentrations are flammable. If precautions are not taken to prevent their ignition, fire and subsequent safety risks may arise.

All fuel storage and handling facilities in Namibia must however comply with strict safety distances as prescribed by SANS 10089. SANS 10089 is adopted by the Ministry of Mines and Energy as the national standard.

It must further be assured that enough water is available for fire firefighting purposes. In addition to this, all personnel must be sensitised about responsible fire protection measures and good housekeeping such as the removal of flammable materials including rubbish, dry vegetation, and hydrocarbon-soaked soil from the vicinity of the exploration area. Regular inspections should be carried out to inspect and test firefighting equipment and pollution control materials at the drilling site.

All fire precautions and fire control at the site must be in accordance with SANS 10089-1:1999, or better. A holistic fire protection and prevention plan is needed.

Experience has shown that the best chance to rapidly put out a major fire, is in the first 5 minutes. It is important to recognise that a responsive fire prevention plan does not solely include the availability of firefighting equipment, but more importantly, it involves premeditated measures and activities to timeously prevent, curb and avoid conditions that may result in fires. An integrated fire prevention plan should be drafted before drilling.



5.2.2.3. Generation of Waste

Solid waste be generated from contractors, staff members and other visitors to the area. Care should be taken when handling waste material.

The types of waste that could be generated during operation include hazardous industrial waste (e.g. lubricants), general industrial waste (e.g. scrap material), and domestic waste (e.g. packaging). The waste will be temporarily handled and stored on site before being removed for final disposal at permitted waste disposal facilities. A registered Waste Management Company would be contracted to remove all hazardous waste from the exploration site. Ablution facilities will use chemical toilets and/or sealed septic tanks and the sewerage taken to the Karasburg periodically. No waste will be discharged on site.

5.2.2.4. Health and Safety

The drilling programme operations can cause serious health and safety risks to workers on site. Occupational exposures are normally related to the dermal contact with fuels and inhalation of fuel vapours during handling of such products. For this reason, adequate measures must be brought in place to ensure safety of staff on site, and includes:

- Proper training of operators;
- First aid treatment:
- Medical assistance;
- Emergency treatment;
- Prevention of inhalation of fumes;
- Protective clothing, footwear, gloves and belts; safety goggles and shields;
- Manuals and training regarding the correct handling of materials and packages should be in place and updated as new or updated material safety data sheets becomes available;
- And Monitoring should be carried out on a regular basis, including accident reports.

5.2.2.5. Fauna

Mineral exploration activities may have minor disturbances on the habitat of a few



species but no significant impacts on the animals are expected. The proponent shall ensure that no animal shall be captured, killed or harmed by any of the employees in any way. Wildlife poaching will strongly be avoided as this is an offence and anyone caught infringing in this regard will face suspension from the project and will be liable for prosecution.

5.2.2.6. Vegetation

The natural vegetation is seemingly undisturbed in the project area except for grasses, which have been grazed by livestock and wild animals. Some vegetation species in the area may be adversely impacted by the project. The type of vegetation that might be affected by the project are:

- Bushes
- Ephemeral grasses
- Small trees

Some of the sensitive vegetation types in the area include:

- Shallow drainage line vegetation
- Scrublands surrounding the mineral exploration area

Certain species regarded as particularly important for conservation may yet be identified and made known via an Addendum to this report. If particularly important species are found, they will be located by GPS and their locations communicated to the Ministry of Environment and Tourism. Such locations will then be demarcated and completely avoided.

5.2.2.7. Avifauna

Birds or Nest sites will not be disturbed by any employee, tourist or contractor. Should the employees observe any bird nesting sites for vultures, they will be reported to the Ministry of Environment and Tourism and the site will be avoided.

5.2.2.8. Alien Invasive Plants

Disturbance to the natural environment often encourages the establishment of alien



invasive weed species. Some of the plant species that could become invasive in the area are listed below:

- Prosopis glandulosa
- Lantana camara
- Cyperus esculentus
- Opuntia imbricate
- Cereus jamacara
- Melia azedarach

There are numerous ways in which invasive species can be introduced deliberately or unintentionally.

5.2.2.9 Heritage Impacts

Although no archaeological sites have been identified yet in the project area, appropriate measures will be undertaken upon discovering any new archaeological sites. All archaeological remains are protected under the National Heritage Act (2004) and will not be destroyed, disturbed or removed. The Act also requires that any archaeological finds be reported to the Heritage Council Windhoek.

Table 10 Impact evaluation for the operational phase of the project

Identified	Signif	icance	Duration	Extent	Intensity	Probability
Impact	NMM	MM				
Air Quality	М	L	LD	L	M	HP
Fire & Explosion Hazard	Н	M	SD	0	M	LP
Generation of waste	М	L	LD	0	L	D
Health and Safety	Н	М	MD	N	L	Р
Fauna	М	L	MD	L	М	D
Vegetation	М	L	MD	L	M	D
Avifauna	М	L	MD	L	M	LP
Alien Invasive Plants	M	L	MD	L	M	Р
Heritage	M	L	LD	0	Н	LP

5.2.2.10 Groundwater Impacts

Mineral exploration activities may affect the availability of water and the quality thereof. exploration works may affect the water availability for deep rooted trees in riverbeds. Surface water for animals may be affected by mineral exploration activities. In rare



instances, the quality of the groundwater for water consumption may be compromised by mineral exploration activities.



6. Environmental Management Plan

6.1 Overview

This Environmental Management Plan is intended to give effect to the recommendations of the Environmental Impact Assessment. To achieve this goal, it is essential that all personnel involved on the mineral exploration are fully aware of the environmental issues and the means to avoid or minimize the potential impacts of activities on site. The proposed mineral exploration activities are summarized in Section 3 of the scoping report above. Legal and policy requirements are well known and understood by the proponent, its employees and contractors and will be strictly enforced by its management team. A general description of the environment is contained in Section 4, and more site-specific information on particularly sensitive areas is contained in Section 4 as well. Issues and concerns identified in the EIA will form a set of environmental specifications that will be implemented on site. It is the intention that these environmental specifications should form the basis for an agreement between the proponent and the Ministry of Environment and Tourism. By virtue of that agreement, these specifications will become binding on the proponent.

Environmental management requires a joint effort on the part of all parties involved. The proponent has assigned certain roles to ensure that all players fulfil their responsibilities in this regard.

6.2 Environmental Management Principles

The proponent will ensure that all parties involved in the project uphold the following broad aims:

- All persons will be required to conduct all their activities in a manner that is environmentally and socially responsible. This includes all consultants, contractors, and sub-contractors, transport drivers, guests and anyone entering the exploration areas in connection with the mineral exploration project.
- 2. Health, Safety and Social Well Being
- Safeguard the health and safety of project personnel and the public against potential impacts of the project. This includes issues of road safety, precautions against natural dangers on site, and radiation hazards; and,



Promote good relationships with the local authorities and their staff.

3. Biophysical Environment

- Wise use and conservation of environmental resources, giving due consideration to the use of resources by present and future generations.
- Prevent or minimise environmental impacts.
- Prevent air, water, and soil pollution, Biodiversity conservation and Due respect for the purpose and sanctity of the area.

To achieve these aims, the following principles need to be upheld.

A. Commitment and Accountability:

The proponent's senior executives and line managers will be held responsible and accountable for:

Health and safety of site personnel while on duty, including while travelling to and from site in company vehicles and environmental impacts caused by mineral exploration activities or by personnel engaged in the mineral exploration activities, including any recreational activities carried out by personnel in the area.

B. Competence

The proponent will ensure a competent work force through appropriate selection, training, and awareness in all safety, health and environmental matters.

C. Risk Assessment, Prevention and Control

Identify, assess and prioritise potential environmental risks. Prevent or minimize priority risks through careful planning and design, allocation of financial resources, management and workplace procedures. Intervene promptly in the event of adverse impacts arising.

D. Performance and Evaluation



Set appropriate objectives and performance indicators. Comply with all laws, regulations, policies and the environmental specifications. Implement regular monitoring and reporting of compliance with these requirements.

E. Stakeholder Consultation

Create and maintain opportunities for constructive consultations with employees, authorities, other interested or affected parties. Seek to achieve open exchange of information and mutual understanding in matters of common concern.

F. Continual Improvement

Through continual evaluation, feedbacks, and innovation, seek to improve performance about social health and well-being and environmental management throughout the lifespan of the mineral exploration project.

G. Financial Provisions for Mineral exploration

In line with Namibia's environmental rehabilitation policy, the proponent will make the necessary financial provision for compliance with the EMP.

6.3 Impacts on the Bio-physical Environment

6.3.1 Impacts on Archaeological Sites

The **nature of impact** is outlined below:

- Potential damage to archaeological sites as a result of vehicle tracks, footprints and actions of contractors, employees and visitors of the mineral exploration site.
- As the mitigation measures below are fully enforced, any impact will be significantly reduced compared to with present situation.

Mitigation Measures to be enforced:

- Buffer zones will be created around the sites.
- Adhere to practical guidelines provided by an archaeologist to reduce the archaeological impact of mineral exploration activities.



- All archaeological sites to be identified and protected before further exploration commences.
- Notices/information boards will be placed on sites.
- Training employees regarding the protection of these sites.

Methods for monitoring:

 An archaeologist will inspect any identified archaeological sites before commencing with the mineral exploration activities.

6.3.2 Impacts on Fauna

The nature of impact is outlined below:

- Movement of vehicles in and out of the site.
- Noise produced by moving earth-moving equipment.

Mitigation Measures to be enforced:

- Some habitat areas such as trees of the riverbeds and tunnels outcrops will be avoided wherever possible.
- A fauna survey will be conducted to determine the effect of fragmented habitat on game species should the need arise.
- No animals shall be killed, captured or harmed in any way.
- No foodstuff will be left lying around as these will attract animals which might result in human-animal conflict.
- Care will be taken to ensure that no litter is lying around as these may end up being ingested by wild animals
- No animals shall be fed. This allows animals to lose their natural fear of humans, which may result in dangerous encounters.

Methods for monitoring:

Regular monitoring of any unusual signs of animal habitat.



6.3.3 Impacts on Avifauna

Birds or Nest sites will not be disturbed by any employee, visitor or contractor.

6.3.4 Impact on Vegetation

The **nature of impact** is outlined below:

- Negative impacts on plants from trenching, compacting and removal of plants.
- Negative Impact from movement of vehicles and the movement of people around the site.
- Negative impacts from land-clearing and mineral exploration operations.

Mitigation Measures to be enforced:

- Environmental considerations will always be adhered to before clearing roads, trenching and excavating.
- Paths and roads will be aligned to avoid root zones. Permeable materials will be used wherever possible.
- The movement of vehicles in riverbeds, rocky outcrops and vegetation sensitive areas will be avoided.
- The movement of vehicles will be restricted to certain tracks only.
- Areas with species of concern will be avoided.
- Ministry of Environment and Tourism will be informed of any protected species which will be transplanted in consultation with MET.

6.3.5 Impacts of Alien invasive Plants

The **nature of impact** is outlined below:

- Plant or seed material may adhere to car tyres or animals
- Seed or plant material may be imported to site in building materials if the source is contaminated.
- Seeds may blow from debris removed at sites.



Mitigation Measures to be enforced:

- The explorer will ensure that debris is properly disposed of.
- Vehicle tyre inspections can be carried out although this may not be a practical mitigation measure.
- Eradicating alien plants by using an Area Management Plan

Methods for monitoring:

Regular monitoring of any unusual signs of alien species.

6.3.6 Impacts on Socio-Economic

The **nature of impact** is outlined below:

- Impact from loss of grazing for domestic livestock in "exclusive use zone"
- Impacts on cultural and spiritual values.
- Demographic factors: Attraction of additional population that cannot benefit from the project.
- Perception of Health and Safety risks associated with mineral exploration.

Mitigation Measures to be enforced:

- The population change can be mitigated by employing people from the local community and encouraging the contractors to employ local individuals.
- The perception of risks will be mitigated by putting up safety signs wherever possible and ensuring that all employees and visitors to the site undergo a safety induction course.

Methods for monitoring:

Public meetings will be held by the proponent whenever necessary.

6.3.7 Visual Impacts

The **nature of impact** is outlined below:



Tracks and damaged vegetation caused by the mineral exploration vehicles.

Mitigation Measures to be enforced:

• Environmental considerations will be adhered to at all times before clearing roads, trenching and excavating.

Methods for monitoring:

Employees will be trained on the importance of minimising visual impacts.

6.3.8 Use of Natural Resources

Water and electricity are very scarce in Namibia. During the exploration, best international practices will be considered as a minimum standard for operation. The bulk of the power supply to the exploration site will be sourced from the proponent's own generator. The proponent will maximise water recycling opportunities wherever possible.

6.3.9 Generation of Solid Waste

Correct management of solid waste will involve a commitment to the full waste life cycle by all the employees and contractors of the site. The Proponent's goal is to avoid the generation of solid waste in the first place and if not possible, to minimise the volumes generated by looking at technologies that promote longevity and recycling of products. Ideally, the proponent should transport solid waste to a registered site for disposal. However, it is not certain if such facilities are available in the area or if they have the capacity to handle large increases in volume. Appropriate on-site facilities will be designed to store large volumes of waste.

6.3.10 Noise

The **nature of impact** is outlined below:

- Movement of people, and vehicles.
- Noise may be generated from an airborne geophysical survey which may be carried out at a later stage.

Mitigation Measures to be enforced:



 Disturbance to fauna that roam the area will be minimized by training the employees on ways to minimise noise.

6.3.11 Air Quality

The **nature of impact** is outlined below:

Dust from movement of people, vehicles and earth-moving machinery.
 Emissions from vehicles and drill rigs as well.

Mitigation Measures to be enforced:

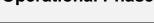
- All staff on should be equipped with dosimeters that measure exposure levels to radiation.
- All staff must be made aware of the health risk and obliged to wear dust masks.

6.4 Summary of Environmental Management Plan during construction, operation and decommissioning phases

	Construction/Initial Phase		
Environmental Impact	Proposed mitigation measures	Responsibility	Monitoring plan
Air pollution	 Control speed and operation of construction vehicles. Prohibit idling of vehicles. Maintenance of vehicles and equipment. Sensitize field exploration workers and contractors. Workers should be provided with dust masks if working in sensitive areas. 	Site Manager	Amount of dust produced. Level of Landscaping carried out.
Noise pollution	 Maintain equipment and vehicles. Field work should only be carried out only during daytime i.e. 08h00 to 17h00. Workers should wear earmuffs if working in noisy section. Management to ensure that noise is kept within reasonable levels. 	Management	Amount of noise
Solid waste	 Any debris should be collected by a waste collection company If trenches are dug, waste should be re-used or backfilled. The site should have waste receptacles with bulk storage facilities at convenient points to prevent littering during exploration. 	-	Presence of well- Maintained receptacles and central collection point.



Oil looks and	a Vohiolog and agricoment should be well	• Contractor	No oil spills and
Oil leaks and spills	 Vehicles and equipment should be well maintained to prevent oil leaks. Contractor should have a designated area where maintenance is carried out and that is protected from rainwater. All oil products should be handled carefully. 	Contractor	No oil spills and leaks on the site
First aid	A well-stocked first aid kit shall be maintained by qualified personnel	Management	Contents of the first aid kit.
Visual	Environmental considerations will be adhered to at all times before clearing roads, trenching and excavating.	Management	 Employees will be trained on the importance of minimising visual impacts.
Archaeological Sites	 Buffer zones will be created around the sites. Adhere to practical guidelines provided by an archaeologist to reduce the archaeological impact of mineral exploration activities. All archaeological sites to be identified and protected before further exploration commences. 	Management	 Register of all archaeological sites identified.
Occupation al Health and Safety	 Provide Personal Protective Equipment Train workers on personal safety and how to handle equipment and machines. A well-stocked first aid kit shall be maintained by qualified personnel. Report any accidents / incidences and treat and Compensate affected workers. Provide sufficient and suitable sanitary conveniences which should be kept clean. 	ContractorManagement	 Workers using Protective Equipment. Presence of Well stocked First Aid Box. Clean sanitary facilities.
Fauna	 Some habitat areas such as trees of the riverbeds and tunnels outcrops will be avoided wherever possible. A fauna survey will be conducted to determine the effect of fragmented habitat on game species should the need arise. No animals shall be killed, captured or harmed in any way. No foodstuff will be left lying around as these will attract animals which might result in human-animal conflict. 	Management	Regular monitoring of any unusual signs of animal habitat.
Alien Invasive Plants	 The explorer will ensure that debris is properly disposed off. Vehicle tyre inspections can be carried out although this may not be a practical mitigation measure. Eradicating alien plants by using an Area Management Plan 	ManagementContractor	Regular monitoring of any unusual signs of alien species.
Loss of vegetation	 Environmental considerations will be adhered to at all times before clearing roads, trenching and excavating. Paths and roads will be aligned to avoid root zones. Permeable materials will be used wherever possible. The movement of vehicles in riverbeds, rocky outcrops and vegetation sensitive areas will be avoided. The movement of vehicles will be restricted to certain tracks only. 	Contractor Management	 Warning signs on site restored vegetation
	Operational Phase		





Environmental/	Proposed mitigation measures	Responsibility	Monitoring plan
Social Impact			
Noise pollution	 Maintain vehicles and drilling equipment. Exploration drilling should be carried out only during daytime. Workers to wear earmuffs if working in noisy section Management to ensure that noise is kept within reasonable levels. 	Management	Amount of noise
Visual	Environmental considerations will be adhered to at all times before clearing roads, trenching and excavating.	Management	Employees will be trained on the importance of minimising visual impacts.
Fauna	 Some habitat areas such as trees of the riverbeds and tunnels outcrops will be avoided wherever possible. A fauna survey will be conducted to determine the effect of fragmented habitat on game species should the need arise. No animals shall be killed, captured or harmed in any way. No foodstuff will be left lying around as these will attract animals which might result in humananimal conflict. 		 Regular monitoring of any unusual signs of animal habitat.
Alien Invasive Plants	 The explorer will ensure that debris is properly disposed of. Vehicle tyre inspections can be carried out although this may not be a practical mitigation measure. Eradicating alien plants by using an Area Management Plan 		Regular monitoring of any unusual signs of alien species.
Loss of vegetation	 Environmental considerations will be adhered to at all times before clearing roads, trenching and excavating. Paths and roads will be aligned to avoid root zones. Permeable materials will be used wherever possible. The movement of vehicles in riverbeds, rocky outcrops and vegetation sensitive areas will be avoided. The movement of vehicles will be restricted to certain tracks only. 	Management	Warning signs on site restored vegetation
Solid waste	 Minimize solid waste generated on site. Recycle waste especially waste from trenching. Debris should be collected by waste collection company. Excavation waste should be re-used or backfilled. 	Contractor Management	Amount of waste on Site Presence of well- Maintained receptacles and central collection point.
Oil leaks and spills	 Machinery should be well maintained to prevent oil leaks. Contractor should have a designated area where maintenance is carried out and that is protected from rainwater. All oil products should be stored in a site store and handled carefully. 		No oil spills and leaks on the site.



Archaeological Sites	 Buffer zones will be created around the sites. Adhere to practical guidelines provided by an archaeologist to reduce the archaeological impact of mineral exploration activities. All archaeological sites to be identified and protected before further exploration commences. 	Management	Update Register of all archaeologic al sites identified.
First aid	A well-stocked first aid kit shall be maintained by qualified personnel	Management	 Contents of the first aid kit.
Fire preparedness	 Firefighting drills carried out regularly. Firefighting emergency response plan. Ensure all firefighting equipment are regularly maintained, serviced and inspected. Fire hazard signs and directions to emergency exit, route to follow and assembly point in case of any fire incidence. 		 Number of fire drills carried. Proof of inspection on firefighting equipment. Fire Signs put up in strategic places. Availability of firefighting equipment.
Environment Health and Safety	 Train workers on personal safety and disaster preparedness. A well-stocked first aid kit shall be maintained by qualified personnel. Report any accidents / incidences and treat and compensate affected workers. Provide sufficient and suitable sanitary conveniences which should be kept clean. Conduct Annual Health and Safety Audits. 	Management	 Provide sanitary facilities. Copies of Annual Audit
	Decommissioning Phase		
Environmental/ Social Impact	Proposed mitigation measures	Responsibility	Monitoring plan/indicator
Noise & Air pollution	 Maintain plant equipment. Decommissioning works to be carried out only during daytime. Workers working in noisy section to wear earmuffs. Workers should be provided with dust masks. 	-	Amount of noise
Disturbed Physical environment	Undertake a complete environmental restoration programme and introducing appropriate vegetation	Management	
Solid waste	 Solid waste should be collected by a contracted waste collection company Excavation waste should be re-used or backfilled. 	Contractor Management	Amount of waste on Site. Presence of well-maintained receptacles and central collection point.



Occupational Health and Safety	 Provide Personal Protective Equipment. Train workers on personal safety and how to handle equipment and machines. A well-stocked first aid kit shall be maintained by 	Workers using Protective Equipment.Presence of a
	 qualified personnel. Demarcate area under decommissioning. 	First Aid Box.

6.5 Monitoring, Auditing and Reporting

6.5.1 Inspections and Audits

During the life of the project, performance against the EMP commitments will need to be monitored, and corrective action taken where necessary, in order to ensure compliance with the EMP and relevant enviro-legal requirements.

6.5.1.1 Internal Inspections/Audits

The following internal compliance monitoring programme will be implemented:

- 1. Project kick-off and close-out audits will be conducted on all contractors. This applies to all phases, including drilling contract work during operations:
 - Prior to a contractor beginning work, an audit will be conducted by the applicable phase site manager to ensure that the EMP commitments are included in Contractors' standard operating procedures (SOPs) and method statements.
 - Following completion of a Contractors work, a final close-out audit of the contractor's performance against the EMP commitments will be conducted by the applicable phase site manager.
- 2. Monthly internal EMP performance audits will be conducted during the construction/initial and decommissioning phases.
- 3. Ad hoc internal inspections can be implemented by the applicable phase exploration manager at his/her discretion, or in follow-up to recommendations from previous inspection/audit findings.

6.5.1.2 External Audits

 At the close of each project phase, and annually during the operational phase, an independently conducted audit of EMP performance will be conducted.



- Specialist monitoring/auditing may be required where specialist expertise are required or in order to respond to grievances or authorities directives.
- Officials from the DEA may at any time conduct a compliance and/or performance inspection of mineral exploration operations. The proponent will be provided with a written report of the findings of the inspection. These audits assist with the continual improvement of the exploration project and the proponent will use such feedback to help improve its overall operations.

6.5.1.3 Documentation

Records of all inspections/audits and monitoring reports will be kept in line with legislation. Actions will be issued on inspection/audit findings. These will be tracked and closed out.

6.5.1.4 Reporting

Environmental compliance reports will be submitted to the Ministry of Environment and Tourism on a bi-annual basis.

6.5.2 Environmental Management System Framework

In order implement Environmental Management Practices, an Environmental Management System (EMS) will be established and implemented by the proponent and their Contractors. This subchapter establishes the framework for the compilation of a project EMS. The applicable exploration manager will maintain a paper based and/or electronic system of all environmental management documentation. These will be divided into the following main categories:

6.5.2.1 Policy and Performance Standards

A draft environmental policy and associated objective, goals and commitments has been included in the EMP. The mineral explorer may adapt these as necessary.

6.5.2.2 Enviro-Legal Documentation

A copy of the approved environmental assessment and EMP documentation will always be available by the proponent. Copies of the Environment Clearance Certificate and all other associated authorisations and permits will also be kept with



the exploration team. In addition, a register of the legislation and regulations applicable to the project will be maintained and updated as necessary.

6.5.2.3 Impact Aspect Register

A register of all project aspects that could impact the environment, including an assessment of these impacts and relevant management measures, is to be maintained. This Draft EMP identifies the foreseeable project aspects and related potential impacts of the proposed project, and as such forms the basis for the Aspect-Impact Register; with the Project Activity. It is however noted that during the life of the project additional project aspects and related impacts may arise which would need to be captured in the Aspect-Impact Register. In this regard, the impact identification principles set forth in the scoping report can be used to update the Register. This method can be modified as required by the applicable exploration manager as necessary during the life of the project.

6.5.2.3 Procedures and Method Statements

In order to affect the commitments contained in this EMP, procedures and method statements will be drafted by the relevant responsible mineral exploration staff and Contractors. These include, but may not be limited:

- Standard operating procedures for environmental action plan and management programme execution.
- Incident and emergency response procedures.
- Auditing, monitoring and reporting procedures, and
- Method statements for EMP compliance for ad hoc activities not directly addressed in the EMP action plans.

All procedures are to be version controlled and signed off by the applicable exploration manager. In addition, knowledge of procedures by relevant staff responsible for the execution thereof must be demonstrable and training records maintained.

6.5.2.4 Register of Roles and Responsibilities

During project planning and risk assessments, relevant roles and responsibilities will be determined. These must be documented in a register of all environmental



commitment roles and responsibilities. The register is to include relevant contact details and must be updated as required.

6.5.2.5 Site Map

An up to date map of the exploration site indicating all project activities is to be maintained. In addition to the project layout, the following detail must be depicted:

- Materials handling and storage;
- Waste management areas (collection, storage, transfer, etc.);
- Sensitive areas;
- Incident and emergency equipment locations; and Location of responsible parties.

6.5.2.6 Environmental Management Schedule

A schedule of environmental management actions is to be maintained by the applicable phase site managers and/or relevant Contractors. A master schedule of all such activities is to be kept up to date by the exploration manager. Scheduled environmental actions can include, but are not limited to:

- Environmental risk assessment;
- Environmental management meetings;
- Soil handling, management and rehabilitation;
- Waste collection
- Incident and emergency response equipment evaluations and maintenance
- Environmental training;
- Stakeholder engagement; Environmental inspections; and
- Auditing, monitoring and reporting.



6.5.2.7 Change Management

The EMS must have a procedure in place for change management. In this regard, updating and revision of environmental documentation, of procedures and method statements, actions plants etc. will be conducted as necessary in order to account for the following scenarios:

- Changes to standard operating procedures (SOPs);
- Changes in scope;
- Ad hoc actions;
- Changes in project phase; and
- Changes in responsibilities or roles

All documentation will be version controlled and require sign off by the applicable phase site managers.

6.6 Closure Plan

The closure vision for the proposed project is to establish a safe, stable and non-polluting post-prospecting landscape that can facilitate integrated, self-sustaining and value generating opportunities, thereby leave a lasting positive legacy. The aim of the closure plan is to:

- Creating a safe, physically stable rehabilitated landscape that limits long-term erosion potential and environmental degradation.
- Sustaining long term catchment yield and water quality.
- Focusing on establishing a functional post-prospecting landscape that enables self-sustaining agricultural practices where possible.
- To encourage, where appropriate, the re-instatement of terrestrial and aquatic wetland biodiversity

6.6.1 Alternatives Considered

Considering that this is an exploration project, the proposed project is not complex, and the risks associated with prospecting are understood and can be mitigated at



closure. Alternative options for closure are limited. There are only two options that have been considered as activity alternatives for the closure plan:

- Preferred Alternative: Closure or Backfill of boreholes with overburden removed during drilling.
- Alternative 2: To Leave boreholes open, in-order to allow for groundwater recharge by surface run-off.

6.6.2 Preferred Alternative: Rehabilitation/ Backfill of boreholes

Rehabilitation is the restoration of a disturbed area that has been degraded as a result of activities such as mining, road construction or waste disposal, to a land use in conformity with the original land use before the activity started. This also includes aesthetical considerations, so that a disturbed area will not be visibly different to the natural environment. This also involves maintaining physical, chemical and biological ecosystem processes in degraded environments, hence the preferred option of backfilling the boreholes with the overburden removed during development and cover with growth medium to establish vegetation. This option has several advantages as discussed below:

Advantages:

- The site will be aesthetically acceptable;
- The site will blend in with the environment;
- The site will be a suitable habitat for fauna and flora again.
- The site will be safe and pollution free;
- Revegetating the site will ensure that the site in non-erodible.

Opting for alternative 1, which is to leave boreholes without backfilling poses a risk in that, these boreholes may fill in with water, which may become attractive to wildlife and communities leading to drowning and the risk of being trapped in the declines. To mitigate these risks, it is necessary to backfill. Treatment technologies should be used to prevent decanting.



6.6.3 Closure Assumptions

This closure plan has been developed based on limited available information including environmental data. Some of the information currently available may need to be supplemented during the operational period. Therefore, several assumptions were made about general conditions, and closure and rehabilitation of the facilities at the site to develop the proposed closure actions. As additional information is collected during operations, these assumptions will be reviewed and revised as appropriate.

The assumptions used to prepare this plan include the following:

- The closure period will commence once the last planned weight of minerals has been extracted from the site for laboratory testing.
- The proposed prospecting sites will be adhered to minimise the potential impacts.
- Vegetation establishment will be in line with a project area's indigenous vegetation.
- Water management infrastructure developed for the operational phase will be retained for closure /end of the life of the project as necessary.
- There are limited opportunities for any infrastructure to be built on site and if any infrastructure is built, it will be of limited benefit to the community.
 Therefore, all buildings will be demolished.
- All hazardous and domestic waste will be transported offsite for disposal in licensed landfills.
- No roads are anticipated to be constructed to access the site; existing roads
 will be used as far as possible. Where access tracks have been developed in
 cases where there are no roads, these will be rehabilitated and closed as part
 of normal closure actions.

6.6.4 Closure and Rehabilitation Activities

The rehabilitation actions intended to be undertaken at the end of the life of the proposed prospecting activities are described below.



6.6.4.1 Infrastructure

All infrastructures will be decommissioned, and the footprints rehabilitated for the establishment of vegetation. Material inventories will be managed near the end of prospecting activities to minimize any surplus materials at closure. Where practicable, equipment and materials with value not needed for post-closure operations will be sold and or removed from the site. Equipment with scrap or salvage value will be removed from the site and sold to recyclers.

A soil contamination investigation will be conducted on completion of demolition activities. The purpose of this is to identify areas of possible contamination and design and implement appropriate remedial measures to ensure that the soil contaminants are removed. Closure actions will include:

- All power and water services to be disconnected and certified as safe prior to commencement of any decommissioning works;
- All remaining inert equipment and decommissioning waste will be disposed to the nearest licensed general waste disposal facility;
- Salvageable equipment will be removed and transported offsite prior and during decommissioning;
- All tanks, pipes and sumps containing hydrocarbons to be flushed or emptied prior to removal to ensure no hydrocarbon/chemical residue remains;

6.6.4.2 Boreholes

Closure of boreholes will entail backfilling with overburden stripped ahead of prospecting activities. All overburden should be replaced into the void and the final surface reshaped to simulate surrounding topography while ensuring that the surface is free draining.

Once backfilling is complete a growth medium cover will be placed, and vegetation will be established. There may be a requirement to include sacrificial erosion protection measures on the surface while vegetation is being established.



6.6.4.3 Roads

Existing roads will be used as far as possible. Closure actions concerning roads and parking areas will include:

- Removal of all signage, fencing, shade structures, traffic barriers, etc.
- All 'hard top' surfaces to be ripped along with any concrete structures.
- All potentially contaminated soils are to be identified and demarcated for later remediation; and
- All haul routes that have been treated with saline dust suppression water need to be treated, with the upper surface ripped and removed to designated contaminant disposal areas.

6.6.4.4 Remediation of Contaminated Areas

All soil, contaminated with hydrocarbons, will be identified, excavated, if possible, to at least 200 mm below the contaminated zone and then treated.

- All tanks, pipes and sumps containing hydrocarbons will be flushed or emptied.
- Removed soils will be managed as determined by the nature and extent of the contamination.
- Liquid storage tanks will be emptied, the structure removed/demolished and sub-surface holes filled; and
- All equipment in which chemicals have been stored or transported will be cleaned and disposed of in a suitable disposal facility.

6.6.4.5 Vegetation

Successful revegetation will help control erosion of soil resources, maintain soil productivity and reduce sediment loading in streams utilizing non-invasive plants that fit the criteria of the habitat (e.g. soils, water availability, slope and other appropriate environmental factors). Invasive species will be avoided, and the area will be managed to control the spread of these species.

To counter the effects of erosion, naturally occurring grassland species will be planted on slopes. These species will provide soil holding capacity and reduce runoff velocity.



The flatter areas will be re-vegetated with the objective of creating a sustainable ecosystem. The occurrence of protected plant species will need to be determined before vegetation is removed and the required permits will be obtained for either destruction or relocation.

6.6.4.6 Waste Management

Waste management activities will include:

- Hazardous waste will be managed handled, classified and disposed.
- Non-hazardous will be disposed in the nearby licensed landfill site;
- Scrap and waste steel will be sold to recyclers.
- It may be necessary to fence temporary salvage yards for security reasons, particularly where these are located close to public roads.



7. Public Participation Process

The public participation process commenced with newspaper advertisements in two widely distributed newspapers for two consecutive weeks as shown in Appendix B.

Known interested and affected parties were notified directly via mail and fax.

Table 11 Registered IAP's from various organs of state.

Name	Position	Organization
Teofillus Nghitila	Executive Director	Ministry of Environment,
		Forestry and Tourism
Timoteus Mufeti	Environmental	Ministry of Environment,
	Commissioner	Forestry and Tourism
Maria Amakali	Director, Water	Ministry of Agriculture,
	Resources Management	Water and Land Reform
E. Shivolo	Mining Commissioner	Ministry of Mine and
		Energy

Interested and affected parties that were notified directly include surrounding farmers, government departments, regional council, Namwater, Chamber of Mines and individuals that may be affected by the explorations activities. No negative concerns were received at this stage. Should any interested and affected parties raise any concerns during the on-going project phase, the Ministry of Environment and Tourism will be immediately notified. The registered interested and affected are indicated in the table below:

Name	Organisation	Tel	Email	Comments	Response
Heiko		081 284	kataneno@ia	Regarding your	The mineral
Binding		6441	frica.com.na	advert in the	license is
				newspaper, I would	located 52
				like to find out the	km southwest
				size of EPL 8844	of Warmbad.
				and exact location.	The
					coordinates
					for the centre
					of the license
					are



		I have	farming	18.39	2516	
		interests th	nere about	and		-
		60km	from	28.88	0873	
		Warmbad	and would	The	EPL	is
		like to find	d out thus	5879.	7527	
		the locatio	n.	hecta	res	in
		If you cou	ıld send a	size.		
		detailed m	nap of the			
		complete	EPL size,	Furth	er	
		that wo	ould be	detail	s plea	ase
		appreciate	ed.	find	the E	BID
				attach	ned.	

8. Conclusion

The scoping report is prepared for the Environmental Impact Assessment for mineral exploration on an area which is located about 52 km southwest of Warmbad. Environmental scoping is a critical step in the preparation of an EIA for the proposed mineral exploration activities.

Basically, mineral exploration is relatively unsophisticated and rudimentary. The methods that will be employed are mainly target generation, target drilling, resource evaluation and mineral resource definition.

With the potential employment of 15 people, this means that 15 families will benefit from the project during the exploration phase. The project has great potential to improve livelihoods and contribute to sustainable development within the surrounding community.

At this stage, electricity requirements for the project are minimal. The bulk of the power supply to the exploration site will be sourced from the proponent's own generator.

The potential negative impacts associated with the proposed mineral exploration project are expected to be low to medium in significance. Provided that the relevant mitigation measures are successfully implemented by the proponent, there are no environmental reasons why the proposed project should not be approved. The project will have significant positive economic impacts that would benefit the local, regional and national economy of Namibia.

Several other potential impacts have been addressed in Section 5 and 6 of this EIA, and will be managed through the implementation of the EMP.

The EMP contains a set of Environmental Specifications that will form part of all contracts between the proponent and contractors such as lubrication companies. The requirements of the EMP will be enforced on site by the Management team, and periodic environmental audits will be undertaken and submitted to MET.

This EIA has been subject to a few limitations, which are explained as follows: -

• the time available in which to secure an environmental contract with the authorities; and,



The limited botanical work done to date did not raise any concerns but will be monitored on an on-going basis. If any "special" species of plants are found, these will be located by GPS. An addendum will then be added to the EMP to indicate localities that should be avoided, or to implement other appropriate measures about any special plants.



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Appendix A

Eidolon helvum Nycteris thebaica Taphozous mauritianus Rhinolophus fumigatus Rhinolophus darlingi Rhinolophus denti Hipposideros commersoni Hipposideros caffer Chaerephon nigeriae Mops midas	STRAW-COLORED FRUIT BAT COMMON SLIT-FACED BAT TOMB BAT RÜPPELL'S HORSESHOE BAT DARLING'S HORSESHOE BAT DENT'S HORSESHOE BAT COMMERSON' S LEAF-NOSED BAT SUNDEVALL' S LEAF-NOSED BAT	SECURE SECURE SECURE SECURE SECURE SECURE SECURE SECURE	SEASONAL ABUNDANTLY SEASONAL OCCASIONALLY OCCASIONALLY OCCASIONALLY
Taphozous mauritianus Rhinolophus fumigatus Rhinolophus darlingi Rhinolophus denti Hipposideros commersoni Hipposideros caffer Chaerephon nigeriae	TOMB BAT RÜPPELL'S HORSESHOE BAT DARLING'S HORSESHOE BAT DENT'S HORSESHOE BAT COMMERSON' S LEAF-NOSED BAT SUNDEVALL' S LEAF-NOSED	SECURE SECURE SECURE SECURE	SEASONAL OCCASIONALLY OCCASIONALLY
Rhinolophus fumigatus Rhinolophus darlingi Rhinolophus denti Hipposideros commersoni Hipposideros caffer Chaerephon nigeriae	RÜPPELL'S HORSESHOE BAT DARLING'S HORSESHOE BAT DENT'S HORSESHOE BAT COMMERSON' S LEAF-NOSED BAT SUNDEVALL' S LEAF-NOSED	SECURE SECURE SECURE	OCCASIONALLY OCCASIONALLY
Rhinolophus darlingi Rhinolophus denti Hipposideros commersoni Hipposideros caffer Chaerephon nigeriae	DARLING'S HORSESHOE BAT DENT'S HORSESHOE BAT COMMERSON' S LEAF-NOSED BAT SUNDEVALL' S LEAF-NOSED	SECURE SECURE	OCCASIONALLY
Rhinolophus denti Hipposideros commersoni Hipposideros caffer Chaerephon nigeriae	DENT'S HORSESHOE BAT COMMERSON' S LEAF-NOSED BAT SUNDEVALL' S LEAF-NOSED	SECURE	+
Hipposideros commersoni Hipposideros caffer Chaerephon nigeriae	COMMERSON' S LEAF-NOSED BAT SUNDEVALL' S LEAF-NOSED		OCCASIONALLY
Hipposideros caffer Chaerephon nigeriae	BAT SUNDEVALL' S LEAF-NOSED	SECURE	
Chaerephon nigeriae		SECURE	ABUNDANTLY
		SECURE	ABUNDANTLY
Mops midas	NIGERIAN FREE-TAILED BAT	SECURE	ABUNDANTLY
	MIDAS FREE-TAILED BAT	SECURE	ABUNDANTLY
Tadarida aegyptiaca	EGYPTIAN FREE-TAILED BAT	SECURE	ABUNDANTLY
Miniopterus inflatus	GREATER LONG-FINGERED BAT	SECURE	RARELY
Miniopterus schreibersi	SCHREIBERS' LONG- FINGERED BAT	SECURE	ABUNDANTLY
Neoromicia capensis	CAPE SEROTINE BAT	SECURE	ABUNDANTLY
Neoromicia zuluensis	ALOE SEROTINE BAT	SECURE	RARELY
Nycticeinops schlieffenii	SCHLIEFFEN' S BAT	SECURE	RARELY
Scotophilus dingani	AFRICAN YELLOW BAT	SECURE	ABUNDANTLY
Atelerix frontalis	SOUTHERN AFRICAN HEDGEHOG	UNKNOWN, RARE?	RARELY
Crocidura fuscomurina	TINY MUSK SHREW	SECURE	RARELY
Crocidura hirta	LESSER RED MUSK SHREW	SECURE	ABUNDANTLY
Galago moholi	SOUTHERN AFRICAN BUSHBABY	UNKNOWN, RARE?	ABUNDANTLY
Papio ursinus	CHACMA BABOON	SECURE	ABUNDANTLY
Lepus victoriae		SECURE	ABUNDANTLY
Xerus inaurus	CAPE GROUND SQUIRREL	SECURE	ABUNDANTLY
Funisciurus congicus	STRIPED TREE SQUIRREL	SECURE	RARELY
Saccostomus campestris	POUCHED MOUSE	SECURE	ABUNDANTLY
Tatera leucogaster	BUSHVELD GERBIL	SECURE	ABUNDANTLY
Tatera brantsii	HIGHVELD GERBIL	SECURE	ABUNDANTLY
Desmodillus auricularis	SHORT-TAILED GERBIL	SECURE	RARELY
Gerbillurus paeba	PYGMY GERBIL	SECURE	ABUNDANTLY
Steatomys pratensis	FAT MOUSE	SECURE	ABUNDANTLY
Malacothrix typica	LARGE-EARED MOUSE	SECURE	RARELY
Mus indutus	KALAHARI PYGMY MOUSE	SECURE	ABUNDANTLY
Lemniscomys rosalia	SINGLE-STRIPED MOUSE	SECURE	RARELY
Rhabdomys pumilio	STRIPED MOUSE	SECURE	ABUNDANTLY
Thallomys paedulcus	TREE RAT	SECURE	ABUNDANTLY
Thallomys nigricauda	BLACK-TAILED TREE RAT	SECURE	ABUNDANTLY
Aethomys namaquensis	NAMAQUA ROCK RAT	SECURE	RARELY
Aethomys chrysophilus	RED VELD RAT	SECURE	ABUNDANTLY
Zelotomys woosnami	WOOSNAM'S DESERT RAT	RARE	RARELY
Mastomys natalensis	NATAL MULTIMAMMATE MOUSE	SECURE	ABUNDANTLY
Mastomys coucha	MULTIMAMMATE MOUSE	SECURE	ABUNDANTLY
	WOODLAND DORMOUSE	SECURE	ABUNDANTLY
Graphiurus murinus		f	_
•	SPRINGHARE	SECURE	ABUNDANTLY
Graphiurus murinus Pedetes capensis Hystrix africaeaustralis		SECURE SECURE	ABUNDANTLY ABUNDANTLY
Pedetes capensis	SPRINGHARE SOUTHERN AFRICAN		



Felis nigripes	SMALL - SPOTTED CAT	INDETERMINATE; PERIPHERAL;	BARELY
Leptailurus serval	SERVAL	RARE? AMBIGUOUS &	RARELY
·		SUPERFICIAL	RARELY
Caracal caracal	CARACAL	SECURE SECURE? &	ABUNDANTLY
Panthera pardus	LEOPARD	SUPERFICIAL	RARELY
Panthera leo	LION	AMBIGUOUS(END ANGERED) & SUPERFICIAL	EXTINCT
Acinonyx jubatus	СНЕЕТАН	INADEQUATELY KNOWN (ENDANGERED?) & SUPERFICIAL	ABUNDANTLY
Civettictis civetta	CIVET	AMBIGUOUS, RARE? & SUPERFICIAL	RARELY
Genetta maculata	SMALL-SPOTTED GENET	SECURE – SP (taxonomy)	ABUNDANTLY
Galarella sanguineus	SLENDER MONGOOSE	SECURE	ABUNDANTLY
Helogale parvula	DWARF MONGOOSE	SECURE	ABUNDANTLY
Mungos mungo	BANDED MONGOOSE	SECURE	ABUNDANTLY
Cynictis penicillata	YELLOW MONGOOSE	SECURE	ABUNDANTLY
•	SPOTTED HYAENA	SECURE? &	
Crocuta crocuta	SFULLED DI AENA	SUPERFICIAL	EXTINCT
Parahyaena brunnea	BROWN HYAENA	INADEQUATELY KNOWN (ENDANGERED?) & SUPERFICIAL	OCCASIONALLY
Proteles cristatus	AARDWOLF	INADEQUATELY KNOWN (ENDANGERED?) & SUPERFICIAL	ABUNDANTLY
Canis mesomelas	BLACK-BACKED JACKAL	SECURE	ABUNDANTLY
Lycaon pictus	WILD DOG	ENDANGERED & SUPERFICIAL	EXTINCT
Otocyon megalotis	BAT-EARED FOX	ENDANGERED? & SUPERFICIAL- SP (taxonomy)	RARELY
Vulpes chama	CAPE FOX	ENDANGERED?	RARELY
Ictonyx striatus	STRIPED POLECAT	SECURE	ABUNDANTLY
Mellivora capensis	HONEY BADGER	SECURE	RARELY
Poecilogale albinucha	AFRICAN STRIPED WEASEL	AMBIGUOUS(RAR E?)	RARELY
Manis temminckii	SAVANNA PANGOLIN	ENDANGERED & SUPERFICIAL	RARELY
Phacochoerus africanus	SOUTHERN WARTHOG	SECURE	ABUNDANTLY
Giraffa camelopardalis	GIRAFFE	ENDANGERED? & SUPERFICIAL	EXTINCT
Alcelaphus buselaphus	RED HARTEBEEST	SECURE ?	ABUNDANTLY
Antidorcas marsupialis	SPRINGBOK	SECURE	
Connochaetes taurinus	BLUE WILDEBEEST	INADEQUATELY KNOWN (ENDANGERED?) & SUPERFICIAL	ABUNDANTLY
Hippotragus equinus	ROAN	ENDANGERED & SUPERFICIAL	ABUNDANTLY
Madoqua damarensis	DAMARA DIK-DIK	INADEQUATELY KNOWN	RARELY
Oryx gazella	GEMSBOK	SECURE	ABUNDANTLY
Raphicerus campestris	STEENBOK	SECURE	ABUNDANTLY
Sylvicapra grimmia	COMMON DUIKER	SECURE	ABUNDANTLY
Syncerus caffer	BUFFALO	INSUFFFICIENTLY KNOWN & SUPERFICIAL	ABUNDANTLY
Tragelaphus oryx	ELAND	INADEQUATELY KNOWN & SUPERFICIAL	ABUNDANTLY
Tragelaphus strepsiceros	GREATER KUDU	SECURE	ABUNDANTLY



Equus burchelli	PLAINS ZEBRA	INADEQUATELY KNOWN & SUPERFICIAL	EXTINCT
Ceratotherium simum	WHITE RHINOCEROS	EXTINCT & REINTRODUCED (non topotypical stock)	EXTINCT
Diceros bicornis	BLACK RHINOCEROS	ENDANGERED & SUPERFICIAL	EXTINCT
Loxodonta africana	AFRICAN ELEPHANT	ENDANGERED & SUPERFICIAL	EXTINCT
Orycteropus afer	AARDVARK	SECURE ?	ABUNDANTLY
Elephantulus intufi	BUSHVELD SENGI	ENDEMIC AND SECURE	ABUNDANTLY

Reptile species which are likely to occur within the exploration area:

SCIENTIFIC NAME	COMMON NAME	STATUS	OCCURRENCE
Pelomedusa subrufa	HELMETED TERRAPIN	SECURE	ABUNDANTLY
Geochelone pardalis	LEOPARD TORTOISE	ENDANGERED & SUPERFICIAL	ABUNDANTLY
Psammobates oculiferus	KALAHARI TORTOISE	ENDANGERED	ABUNDANTLY
Lygodactylus bradfieldi	NAMIBIAN DWARF GECKO	ENDEMIC & SECURE	ABUNDANTLY
Colopus wahlbergii	KALAHARI GROUND GECKO	SECURE	RARELY
Pachydactylus turneri	TROPICAL BUTTON-SCALE GECKO	SECURE	ABUNDANTLY
Pachydactylus capensis	CAPE GECKO	SECURE	UNCOMMONLY
Pachydactylus punctatus	SPECKLED GECKO	SECURE	ABUNDANTLY
Ptenopus garrulus	COMMON BARKING GECKO	SECURE	ABUNDANTLY
Agama aculeata	COMMON GROUND AGAMA	SECURE	ABUNDANTLY
Chamaeleo dilepis	FLAP-NECK CHAMELEON	SECURE	ABUNDANTLY
Acontias occidentalis	WESTERN LEGLESS SKINK	SECURE	ABUNDANTLY
Lygosoma sundevalli	COMMON WRITHING SKINK	SECURE	ABUNDANTLY
Trachylepis capensis	CAPE SKINK	SECURE	UNCOMMONLY
Trachylepis punctulata	EASTERN VARIEGATED SKINK	SECURE	ABUNDANTLY
Trachylepis wahlbergii	WAHLBERG'S STRIPED SKINK	SECURE	ABUNDANTLY
Trachylepis varia	COMMON VARIABLE SKINK	SECURE	ABUNDANTLY
Heliobolis lugubris	BUSHVELD LIZARD	SECURE	ABUNDANTLY
Ichnotropis capensis	CAPE ROUGH-SCALED LIZARD	SECURE	ABUNDANTLY
Ichnotropis squamulosa	COMMON ROUGH-SCALED LIZARD	SECURE	ABUNDANTLY
Nucras holubi	HOLUB'S SANDVELD LIZARD	SECURE	UNCOMMONLY
Nucras intertexta	SPOTTED SANDVELD LIZARD	SECURE	UNCOMMONLY
Pedioplanis lineoocellata	OCELLATED SAND LIZARD	SECURE	ABUNDANTLY
Pedioplanis namaquensis	NAMAQUA SAND LIZARD	SECURE	ABUNDANTLY
Gerrhosaurus auritus	KALAHARI PLATED LIZARD	SECURE	UNCOMMONLY
Gerrhosaurus nigrolineatus	BLACK-LINED PLATED LIZARD	SECURE	ABUNDANTLY
Varanus albigularis	VELD LEGUAAN (MONITOR)	ENDANGERED & SUPERFICIAL	ABUNDANTLY
Dalophia pistillum	BLUNT-TAILED WORM LIZARD	SECURE ?	MARGINALLY
Monopeltis anchietae	ANGOLAN SPADE-SNOUTED WORM LIZARD	SECURE	ABUNDANTLY
Monopeltis infuscata	DUSKY SPADE-SNOUTED WORM LIZARD	SECURE	ABUNDANTLY
Monopeltis leonhardi	KALAHARI SPADE-SNOUTED WORM LIZARD	SECURE	MARGINALLY
Monopeltis mauricei	SLENDER SPADE-SNOUTED WORM LIZARD	SECURE	MARGINALLY
Zygaspis quadrifrons	KALAHARI ROUND-HEADED WORM LIZARD	SECURE	ABUNDANTLY
Leptotyphlops labialis	DAMARA WORM SNAKE	ENDEMIC & SECURE	MARGINALLY
Leptotyphlops scutifrons	PETERS= WORM SNAKE	SECURE	ABUNDANTLY
Rhinotyphlops schlegelii	SCHLEGEL'S BLIND SNAKE	SECURE	ABUNDANTLY
Rhinotyphlops boylei	KALAHARI BLIND SNAKE	SECURE	RARELY



	L COLITHERN AFRICAN	ENDANGEDED 6	1
Python natalensis	SOUTHERN AFRICAN PYTHON	ENDANGERED & SUPERFICIAL	ABUNDANTLY
Amblyodipsas polylepis	COMMON PURPLE-GLOSSED SNAKE	INADEQUETLY KNOWN; RARE?	RARELY
Amblyodipsas ventrimaculata	KALAHARI PURPLE-GLOSSED SNAKE	SECURE	MARGINALLY
Aparallactus capensis	CAPE CENTIPEDE EATER	INADEQUETLY KNOWN; RARE?	RARELY
Atractaspis bibronii	SOUTHERN STILLETO SNAKE	SECURE	ABUNDANTLY
Xenocalamus bicolor	VARIABLE QUILL-SNOUTED SNAKE	SECURE	ABUNDANTLY
Xenocalamus mechowii	ELONGATED QUILL-SNOUTED SNAKE	SECURE	MARGINALLY
Crotaphopeltis hotamboeia	WHITE-LIPPED SNAKE	INADEQUETLY KNOWN	RARELY
Dasypeltis scabra	RHOMBIC EGG EATER	SECURE	ABUNDANTLY
Dispholidus typus	BOOMSLANG	SECURE	ABUNDANTLY
Lamprophis fuliginosus	BROWN HOUSE SNAKE	SECURE	ABUNDANTLY
Lycophidion capense	CAPE WOLF SNAKE	SECURE	ABUNDANTLY
Mehelya capensis	CAPE FILE SNAKE	SECURE	UNCOMMONLY
Mehelya nyassae	BLACK FILE SNAKE	INADEQUETLY KNOWN	RARELY
Mehelya vernayi	ANGOLAN FILE SNAKE	INADEQUETLY KNOWN	UNCOMMONLY
Philothamnus angolensis	ANGOLAN GREEN SNAKE	SECURE	UNCOMMONLY
Philothamnus semivariegatus	SPOTTED BUSH SNAKE	SECURE	ABUNDANTLY
Prosymna angolensis	ANGOLA SHOVEL-SNOUT	SECURE	MARGINALLY
Prosymna bivittata	TWIN-STRIPED SHOVELSNOUT	SECURE	MARGINALLY
Psammophis angolensis	DWARF WHIP SNAKE	SECURE	ABUNDANTLY
Psammophis jallae	JALLA'S SAND SNAKE	INADEQUETLY KNOWN	RARELY
Psammophis leopardinus	LEOPARD WHIP SNAKE	ENDEMIC & SECURE	UNCOMMONLY
Psammophis mossambicus	OLIVE WHIP SNAKE	SECURE	ABUNDANTLY
Psammophis notostictus	KAROO WHIP SNAKE	SECURE	MARGINALLY
Psammophis subtaeniatus	WESTERN STRIPED-BELLIED SAND SNAKE	SECURE	ABUNDANTLY
Psammophis trigrammus	WESTERN WHIP SNAKE	ENDEMIC & SECURE	ABUNDANTLY
Psammophis trinasalis	KALAHARI SAND SNAKE	SECURE	UNCOMMONLY
Psammophylax tritaeniatus	STRIPED SKAAPSTEKER	SECURE	ABUNDANTLY
Pseudaspis cana	MOLE SNAKE	SECURE	ABUNDANTLY
Telescopus semiannulatus	SOUTHERN TIGER SNAKE	SECURE	ABUNDANTLY
Thelotornis capensis	VINE SNAKE	SECURE	UNCOMMONLY
Aspidelaps lubricus	CORAL SNAKE	SECURE	UNCOMMONLY
Aspidelaps scutatus	SHIELD-NOSE SNAKE	SECURE	ABUNDANTLY
Dendroaspis polylepis	BLACK MAMBA	SECURE	ABUNDANTLY
Elapsoidea semiannulata	ANGOLA GARTER SNAKE	SECURE	UNCOMMONLY
Elapsoidea sundevallii	KALAHARI GARTER SNAKE	SECURE	UNCOMMONLY
Naja anchietae	ANGOLAN COBRA	SECURE	ABUNDANTLY
Naja mossambica	MOZAMBIQUE SPITTING COBRA	SECURE	RARELY
Naja nigricincta	ZEBRA SNAKE	ENDEMIC & SECURE	ABUNDANTLY
Bitis caudalis	HORNED ADDER	SECURE	UNCOMMONLY
Bitis arietans	PUFF ADDER	SECURE	ABUNDANTLY

Bird species which are likely to occur within the project area:

SCIENTIFIC NAME	COMMON NAME	STATUS IN NAMIBIA
Accipiter badius	Little Banded Goshawk	Secure
Accipiter ovampensis	Ovambo Sparrowhawk	Secure
Actophilornis africanus	African Jacana	Secure
Agapornis roseicollis	Rosyfaced Lovebird	Secure
Anastomus lamelligerus	Openbilled Stork	Secure
Anthus cinnamomeus	Richard's Pipit	Secure
Apus affinis	Little Swift	Secure
Apus apus	European Swift	Secure



A	I William and County	1.0
Apus caffer Apus melba	Whiterumped Swift	Secure Secure
Aquila nipalensis	Alpine Swift Steppe Eagle	Secure -
Aquila riipalerisis Aquila rapax	Tawny Eagle	Endangered
Aquila wahlbergi	Wahlberg's Eagle	Secure
Ardeotis kori	Kori Bustard	Secure
Batis molitor	Chinspot Batis	Secure
Batis pririt	Pririt Batis	Secure
Bubalornis niger	Redbilled Buffalo Weaver	Secure
Burhinus capensis	Spotted Dikkop	Secure
Buteo buteo	Steppe Buzzard	Secure -
Calamonastes fasciolatus	Barred Warbler	Secure
Calendulauda sabota	Sabota Lark	Secure
Camaroptera brevicaudata	Greybacked Camaroptera	Secure
Caprimulgus pectoralis	Fierynecked Nightjar	Secure
Caprimulgus rufigena	Rufouscheeked Nightjar	Secure
Ceryle rudis	Pied Kingfisher	Secure
Chrysococcyx caprius	Diederik Cuckoo	Secure
Chrysococcyx klaas	Klaas's Cuckoo	Secure
Ciconia abdimii	Abdim's Stork	Secure
Cinnyris mariquensis	Marico Sunbird	Secure
Circaetus pectoralis	Blackbreasted Snake Eagle	Secure
Cisticola chiniana	Rattling Cisticola	Secure
Cisticola rufilatus	Tinkling Cisticola	Secure
Clamator glandarius	Great Spotted Cuckoo	Secure
Coracias caudata	Lilacbreasted Roller	Secure
Coracias garrulus	European Roller	Secure -
Coracias naevia	Purple Roller	Secure
Corvinella melanoleuca	Longtailed Shrike	Secure
Corvus capensis	Black Crow	Secure
Crostophoro cinoros	Grey Lourie Wattled Starling	Secure
Creatophora cinerea Crithagra flaviventris	Yellow Canary	Secure Secure
Cuculus clamosus	Black Cuckoo	Secure
Cuculus gularis	African Cuckoo	Secure
Cursorius temminckii	Temminck's Courser	Secure
Cypsiurus parvus	Palm Swift	Secure
Delichon urbicum	House Martin	Secure -
Dicrurus adsimilis	Forktailed Drongo	Secure
Elanus caeruleus	Blackshouldered Kite	Secure
Emberiza flaviventris	Goldenbreasted Bunting	Secure
Emberiza tahapisis	Rock Bunting	Secure
Eremomela icteropygialis	Yellowbellied Eremomela	Secure
Eremopterix verticalis	Greybacked Finchlark	Secure
Erythropygia leucophrys	Whitebrowed Robin	Secure
Erythropygia paena	Kalahari Robin	Secure
Estrilda erythronotos	Blackcheeked Waxbill	Secure
Eupodotis afraoides	Whitequilled Korhaan	Secure
Eupodotis ruficrista	Redcrested Korhaan	Secure
Eurocephalus anguitimens	Whitecrowned Shrike	Secure
Falco biarmicus	Lanner Falcon	Secure
Falco chicquera	Rednecked Falcon	Secure
Falco subbuteo	Hobby Falcon	Secure -
Falco tinnunculus	Rock Kestrel	Secure
Falco vespertinus	Western Redfooted Kestrel	Secure
Francolinus adspersus	Redbilled Francolin	Secure
Francolinus sephaena	Crested Francolin	Secure
Francolinus swainsonii	Swainson's Francolin	Secure
Gallinago nigripennis	Ethiopian Snipe Whitebacked Vulture	Secure Near Threatened
Gyps africanus Hieraaetus pennatus	Booted Eagle	Endangered
Hirundo abyssinica	Lesser Striped Swallow	Secure
i manao abyssiinod	Lesser ourped owallow	Decuie



Hirundo cucullata Greater Striped	Swallow Secure
Hirundo cucullataGreater StripedHirundo fuligulaRock Martin	Secure
Hirundo rustica European Swal	
Hirundo semirufa Redbreasted St	
Lamprotornis australis Burchell's Starli	
Lamprotornis nitens Glossy Starling	
Laniarius atrococcineus Crimsonbreaste	
Lanius collaris Fiscal Shrike	Secure
Lanius collurio Redbacked Shr	
Lanius minor Lesser Grey Sh	
Melaenornis infuscatus Chat Flycatcher	
Melaenornis mariquensis Marico Flycatch	
Melierax canorus Pale Chanting (
Merops apiaster European Bee-	
Merops hirundineus Swallowtailed B	
Micronisus gabar Gabar Goshawl	
Milvus migrans Black Kite	Secure -
Milvus parasitus Yellowbilled Kite	
Mirafra passerina Monotonous La	
Monticola brevipes Shorttoed Rock	
Muscicapa striata Spotted Flycato	
Nectarinia fusca Dusky Sunbird	Secure
Nectarinia talatala Whitebellied Su	
Nilaus afer Brubru	Secure
Numida meleagris Helmeted Guine	
Oena capensis Namaqua Dove	
Onychognathus nabouroup Palewinged Sta	
Parisoma subcaeruleum Titbabbler	Secure
Parus cinerascens Ashy Tit	Secure
	headed Sparrow Secure
Passer motitensis Great Sparrow	Secure
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Upupa epops	Ноорое	Secure
Uraeginthus angolensis	Blue Waxbill	Secure
Uraeginthus granatinus	Violeteared Waxbill	Secure
Urocolius indicus	Redfaced Mousebird	Secure
Vanellus armatus	Blacksmith Plover	Secure
Vanellus coronatus	Crowned Plover	Secure
Vanellus senegallus	Wattled Plover	Secure
Vidua regia	Shafttailed Whydah	Secure
Zosterops senegalensis	Yellow White-Eye	Secure



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FORM 24 RULE 108(2)(a) IN THE HIGH COURT OF NAMIBIA

(Main Division - Windhoek)

Case Number: HC-MD-CIV-ACT-CON-2022/01620 In the matter between: FIRST NATIONAL BANK OF NAMIBIA LIMITED **APPLICANT**

And

ANTHEA CAROLA JUANITA MICHELLE KLEIN RESPONDENT

NOTICE BY JUDGMENT CREDITOR TO JUDGMENT DEBTORS

KINDLY TAKE NOTICE THAT the Applicant FIRST NATIONAL BANK OF NAMIBIA LTD, (hereinafter called the Judgment Creditor) has obtained Judgment against the Respondent, ANTHEA CAROLA JUANITA MICHELLE KLEIN (hereinafter called the Judgment Debtor) in this Honourable Court on **04**TH of **FEBRUARY 2024.** TAKE FURTHER NOTICE THAT

the Judgment Creditor shall apply for an Order in terms of Rule 108(1)(b) declaring the following property executable: A unit consisting of-

a) Section No.20 as shown and more fully described on Sectional Plan No.SS55/2019 in the development scheme known as VILHO ELIAS VILLA ESTATE, in resepct of the land and building or buildings, situate at ERF NO.60 OSONA VILLAGE, IN THE MUNICIPALITY OF OKAHANDJA, REGISTRATION DIVISION "J". OTJOZONDJUPA Region, of which the floor area, according to the said Sectional Plan is 101 (ONE HUNDRED AND ONE) square metres in extent; and

b) An Undivided share in the common property in the development scheme, apportioned to that section in accordance with the participation qouta as endorsed on that Sectional Plan.
HELD under Deed of Transfer

ST1315/2019 and

SUBJECT to the conditions $contained\,therein\,and\,specifically$ the right to extend the aforesaid Development Scheme with further

KINDLYTAKE FURTHER NOTICE **THAT** the Judgment Debtors or any other person is hereby called to provide reasons to this Honourable Court and/or Judgement Creditor within 10 (TEN) days from date of service of this notice as to why an Order

Dated at WINDHOEK on this day of FEBRUARY 2024.

may not be granted.

declaring the property executable

ANGULACO.INCORPORATED Legal Practitioner for Plaintiff 11 SCHUSTER STREET **WINDHOEK** (Ref: DEB1862/EPH

TO: THE REGISTRAR **HIGH COURT OF NAMIBIA** WINDHOEK AND: THE RESPONDENT ANTHEA CAROLA JUANITA MICHELLE KLEIN UNIT 60-20 OSONA VILLAGE OKAHANDJA (TO BE SERVED

VIA NEWS PAPERS)

TO: ANY LESSEE / TENANT UNIT 60-20 OSONA VILLAGE OKAHANDJA (TO BE SERVED BY DEPUTY SHERIFF)

Fax: (061) 220 584

Notice

Notice

CALL FOR PUBLIC PARTICIPATION ENVIRONMENTAL IMPACT ASSESSMENT FOR MINERAL EXPLORATION ON EPL 8844

This notice serves to inform all interested and affected parties that an application for the environmental clearance certificate will be launched with the Environmental Commissioner in terms of the Environmental Management Act (No.7 of 2007) and the Environmental Regulations (GN 30 of 2012).

Location: The license area is located about 52 km southwest of Warmbad. The proponent intends to explore for Lithium and rare earth metals. Exploration methods may include geological mapping, geophysical surveys, sampling and drilling.

Proponent: Johan Van der Westhuizen

All interested and affected parties are hereby invited to register and submit their comments regarding the proposed project on or before 20/03/2024. Contact details for registration and further information:

Impala Environmental Consulting Mr. S. Andjamba

Tel: 0856630598



CALL FOR PUBLIC PARTICIPATION ENVIRONMENTAL IMPACT ASSESSMENT FOR MINERAL EXPLORATION ON EPL 8897

This notice serves to inform all interested and affected parties that an application for the environmental clearance certificate will be launched with the Environmental Commissioner in terms of the Environmental Management Act (No.7 of 2007) and the Environmental Regulations

Location: The license area is located about 40 km north of Outio. The proponent intends to explore for Copper. Exploration methods may include geological mapping, geophysical surveys, sampling and drilling.

All interested and affected parties are hereby invited to register and submit their comments regarding the proposed project on or before 20/03/2024. Contact details for registration and further information:

Impala Environmental Consulting Mr. S. Andjamba Email: public@impalac.com, Tel: 0856630598



NOTICE OF ENVIRONMENTAL SCOPING ASSESSMENT (ESA) FOR: FOR THE PROPOSED EXPLORATION ACTIVITIES ON THE EXCLUSIVE PROSPECTING LICENCES (EPLs) No. 8140, 8141, 8153, 8159, 8161 LOCATED NEAR GOBABIS IN THE

Under the Environmental Management Act No. 7 of 2007 and its 2012 EIA Regulations, the proposed exploration activities on EPLs 8140, 8141, 8153, 8159, 8161 require an Environmenta Clearance Certificate (ECC) from the Department of Environmental Affairs and Forestry (DEAF)

The public is notified that an ECC application will be submitted to the Environmenta

Brief Project Description

EPL (s)	Proponent	Coordinates
EPLs 8140, 8141, 8161	Carl Andries Joone	22° 26' 37" S , 19° 40' 09"
EPL 8153	GFM Geophysics CC	22° 11' 14" S , 19° 09' 50"
EPL 8159	Carl Andries Joone	22° 28' 45" S , 18° 32' 049"
	EPL 8140, 8141, 8161 EPL 8153	EPLs 8140, 8141, 8161 Carl Andries Joone EPL 8153 GFM Geophysics CC

Public members are invited to register as Interested and Affected Parties to comment/raise

cerns or receive further information on the Environmental Assessment proce

Registration requests should be forwarded to Excel Dynamic Solutions (Pty) Ltd on the contact details below, before or on 29 February 2024.

Contact: Excel Dynamic Solution

Tel: + 264 61 259 530



Employment

Offered

Practice Associate; MEDICAL DOCTOR IN WALVISBAY

Requirements:

1. Experience:10 years of experience as a generalized healthcare practitioner, capable of practicing unsupervised in a busy family practice

2. Emergency Care Expertise: Extensive experience and certification in primary emergency care, including up-to-date ACLS, ATLS, PALS certificates, or a Diploma in Primary Emergency Care. Must be able to handle emergencies 24/7 for practice patients, MVA Fund patients, visiting patients, and work-related injury patients via Welwitschia Hospital Emergency Room.

3. Anesthesia Experience: Proficiency in providing general and regional anesthesia for obstetric cases, pediatric procedures (e.g., tonsillectomies, circumcisions), and minor procedures like excisions or uterine evacuations

4. Availability: Willingness to provide after-hours services on the practice call roster, including weeknights and a 1in 4 weekend rotation. As part of the group practice, being team-oriented and adaptable is essential in handling short-notice roster changes and providing assistance with emergency cesarean cases.

5. Commitment to CPD: DedicationtomeetingContinuing Professional Development (CPD) requirements and maintaining high ethical and clinical standards.

6. Service to PSEMAS Clientele: Willingness to serve patients covered by the Public Service Employees Medical Aid Scheme (PSEMAS) **7. Age:** 35-50

8.Remuneration: Commission

9. Registred with HPCNA

Please submit your application if you meet all of the above criteria. We value candidates who are dedicated to providing high-quality care in a busy and

Mail CV to baardmaureen @gmail.com only shortlisted candidates will we contacted.

Closing date 29 Febr 2024

Panam Investment cc is urgently looking for a

machine operator.

Requirements:

1, Fluent Mandarin both in Spoken and writing. Fluent in spoken English.

2, 6+ years relevant working Experience on operating paint mixing machine and its maintenance.

3, Basic computer skills 4, Conduct of certificate from police station 5, Certificate from College or University from Relevant

Please send your CV to

keipaupm@gmail.com

Close date: 01 March 2024

Employment

Email: classifieds@nepc.com.na

Offered

ONDANGWA PRIVATE

HOSPITAL

Ondangwa Private Hospital

Practitioners cc is an equal

opportunity employer and

invites proactive, professional, caring, ethical person to apply

Position:

Orthopaedic Surgeon

Qualifications, Skills,

Competencies and

Experience Requirements:

MD/DO Degree and MS in

5 years of residency training

experience as an Orthopedic

Valid license to practice the

profession, must be registered

Namibian citizen or eligible to

Fantastic manual dexterity,

visuospatial awareness.

hand-eye coordination, and

Superb organizational and

Emotionally resilient with the

ability to make patients feel at

Should you meet the above-

mentioned requirements, kindly

email your CV and all certified

supporting documents to:

recruitment.practices@oph

Closing Date: 22 March 2024

ONDANGWA PRIVATE

HOSPITAL

Ondangwa Private Hospital

Practitioners cc is an equal

opportunity employer and

invites proactive, professional,

caring, ethical person to apply

Position: Plumber

Requirements:

Matric/Level 3 Plumbing

Certificate and Plumbing

experience as a Plumber.

Excellent problem-solving

mechanical and plumber

Must have worked with

Attention to detail and

Should you meet the above-

mentioned requirements, kindly

email your CV and all certified

supporting documents to:

recruitment.practices@oph.

Closing Date: 08 March 2024

NB! All documents must be

in PDF format, maximum 3

to perform tasks

simultaneously

fluid systems doing design,

fabrication, and installation.

Knowledge of building codes

safety regulations, and safety

Valid code B driver's license.

Trade Certificate.

Minimum of 3 years'

skills, physical skills,

skills.

practices

com.na

attachments.

for the following position:

time management skills.

work within Namibia.

in Orthopaedic Surgery.

Minimum of 4 years

Orthopedics.

Surgeon.

with HPCNA.

for the following position:

Offered

Employment

PRACTICE, WINDHOEK

Job Opportunity: SPECIAL PHYSICIAN & CLINICAL **HAEMOTOLOGIST**

KEY RESPONSIBILITIES:

Provide exceptional care in clinical haematology and laboratory settings.

Diagnose and manage benign and malignant haematological conditions. Expertly handle the clinical

selection and management of bone marrow transplant cases

REQUIRED EXPERIENCE: a clinical haematologist in the

private sector.

Proven track record in both clinical and laboratory aspects of haematology.

EDUCATIONAL QUALIFICATIONS:

Qualified as a Subspecialist in Clinical Haematology or

equivalent qualification. APPLICATION:

Interested candidates are invited

to submit their CV and cover letter detailing their experience and qualifications to: kechia.kuiiri@ figohealth.com

Closing date: 28 Feb 2024

Intromed Investment

Intromed Investment is an equal opportunity employer and invites proactive, professional, caring, ethical person to apply for the following position:

1. Position: Dentist

Oualifications, Skills Competencies and Experience Requirements: Bachelor of Dental Surgery

(BDS) Degree Minimum of 3 years

experience as a Dentist. Valid license to practice the profession, must be registered with HPCNA.

Namibian citizen or eligible to work within Namibia.

Superb organizational and

time management skills. Emotionally resilient with the

ability to make patients feel at ease.

Should you meet the above mentioned requirements, kindly email your CV and all certified supporting documents to: recruitment.practices@oph.

Closing Date: 22 March 2024 **HEADSPRING INVESTMENTS**

PTY is seeking for the Chief Technical Officer. The ideal

candidate should have a diploma and degree as Mining Engineer in specialty In situ recovery mining or geology or mining. He should work in mining/exploration company over 10 years and has strong experience in mining sector of

board for exploration program and strategy for short, middle

CV to svetlana.bauer@

Closing date:





industry. The perfect candidate will be responsible for preparation and getting all approvals from

and long term period, budgeting, all negotiation with contractors, key ministries and mother company, developing mining aspects of the company's strategy, overseeing all aspects of technology within an organization, manage team of geology, mining and technology specialist. Must be fluent in English and Russian, Computer literate, MS Office, Micromine.

uranium1.com

University of Cape Town proposes a proton therapy centre for cancer patients

has proposed a design and business case for a proton therapy centre to be established in Cape Town for cancer patients. In its proposal, the university said a team would be designing the technical specifications and the

he University of Cape Town

a team would be designing the technical specifications and the centre will be located near both the Red Cross War Memorial Children's Hospital and Groote Schuur Hospital.

Proton therapy is a form of radiation therapy for cancer that utilises a beam of energetic protons from a cyclotron (a machine that accelerates charged particles to speeds approaching the speed of light).

The unique characteristics of this proton beam allow a type of radiotherapy treatment which is highly effective for a wide range of tumours and significantly reduces the late side effects of radiation therapy.

In children in particular, proton beam therapy is now recognised as superior to conventional radiotherapy techniques with less damage to normal tissue and reduced risk of secondary malignancy.

Currently, there are 131 proton therapy centres in operation globally which are located in the northern hemisphere. There are two proton therapy centres under construction in the southern hemisphere — in Argentina and Australia. The centre is the first to be proposed for sub-Saharan Africa. Interim Vice-Chancellor at UCT, Emeritus Professor Daya Reddy welcomed the proposal of the centre.

"This proposal represents a pivotal stride toward advancing healthcare accessibility, fostering scientific excellence, and providing our communities with state-of-the-art cancer treatment options that they deserve," Reddy said.

The proton therapy centre in Cape Town will be designed to benefit from the very latest technological advances, and include facilities for the production of short-lived radioisotopes for nuclear medicine, and beamlines for research in physics, engineering, neuroscience, radiation metrology and radiobiology.

The centre will be a unique world-leading resource not only for South Africa but for the African continent. The financial sustainability plan will have both public and commercial components.

The university said the multidisciplinary project features both an outstanding oncology clinical team based at the university and associated hospitals, spanning public and private sectors and

strong expertise in acceleratorbased research and development. iThemba LABS national facility is located in Cape Town and operates many accelerators for radioisotope production and research, but no longer offers proton therapy, leaving a critical gap in cancer therapy in the region. The project will be jointly led by

the Director of the Metrological and Applied Sciences Research Unit in the Department of Physics, Professor Andy Buffler, the head of Radiation Oncology, Professor Jeannette Parkes, and the Director of the Donald Gordon Neuroscience Institute, Professor Graham Fieggen.

The University of Cape Town has proposed a design and business case for a proton therapy centre to be established in Cape Town for cancer patients.

In its proposal, the university said

a team would be designing the technical specifications and the centre will be located near both the Red Cross War Memorial Children's Hospital and Groote Schuur Hospital. Proton therapy is a form of radiation therapy for cancer that utilises a beam of energetic protons from a cyclotron (a machine that accelerates charged particles to speeds approaching the speed of light). The unique characteristics of this proton beam allow a type of radiotherapy treatment which is highly effective for a wide range of tumours and significantly reduces the late side effects of radiation therapy.

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Location: The license area is located about 52 km southwest of Warmbad. The proponent intends to explore for Lithium and rare earth metals. Exploration methods may include geological mapping, geophysical surveys, sampling and drilling.

Proponent: Johan Van der Westhuizen

All interested and affected parties are hereby invited to register and submit their comments regarding the proposed project on or before **20/03/2024.** Contact details for registration and further information:

Impala Environmental Consulting

Mr. S. Andjamba

Email: public@impalac.com, Tel: 0856630598





NOTICE FOR PUBLIC PARTICIPATION

Environam Consultants Trading (ECT) hereby gives notice to all potential Interested and Affected Parties (I&APs) that an application will be made to the Environmental Commissioner in terms of the Environmental Management Act (No 7 of 2007) and the Environmental Impact Assessment Regulations (GN 30 of 6 February 2012) for the following:

PROJECT NAME: Amendment to the Existing Environmental Clearance Certificate for the Proposed Development of the Okanjande Graphite Mine and Exploration Activities, Otjiwarongo, Otjozondjupa Region PROJECT LOCATION: Farms Osdam and Highlands, 22 km south of Otjiwarongo, in the Otjozondjupa Region

PROJECT DESCRIPTION: The Amendment of the Environmental Clearance Certificate to include:

Changes in Mining and Processing

 New Activities: Marble Quarrying; Power Generation; Landfill; Domestic waste; Telecommunication Tower; Explosive Magazine

PROPONENT: Northern Graphite Okanjande Mining (Pty) Ltd

PUBLIC MEETING: Public consultation meetings will be held on 08 March 2024 at the following venue and time:

10:00-12:00 at C'est Si bon Hotel, Swembadweg, Otjiwarongo

REGISTRATION OF I&APs AND SUBMISSION OF COMMENTS: All I&APs are hereby invited to registe and submit their comments, concerns or questions in writing to:

Email: colin@environam.com; info@environam.com;

Mobile: 081 458 4297; 081 247 3646 on or before **15 March 2024**.





Alan Jasser Hoebeb
"Chef Kusta"

DOB: 30 August 1981

DOD: 14 February 2024

Mt. 10:8

Freely you received, freely give.

Memorial Service

Thursday, 29 February 2024 @ 18:00

Overnight Memorial

Friday, 01 March 2024 @ 19:00

Burial Service

Saturday, 02 March 2024 @ 08:00 from Home (20 Halifax Island Street, Rocky Crest)

09:00, WCP Lutheran Parish Church, Konrad Str.

Enquiries

Bazil Dax 081 260 9706 Elizabeth /Uses 081 601 0990

CALL FOR REGISTARTION AS INTERESTED AND AFFECTED PARTIES

ENVIRONMENTAL ASSESSMENT FOR THE PROPOSED THE CONSTRUCTION
AND OPERATION OF OMAHEKE MEGASAVE'S WAREHOSE AND SHORT-TERM
LIVESTOCK HOLDING PENS AT OTJINENE, OMAHEKE REGION

1. PROJECT SITE AND DESCRIPTION

Omaheke Megasave (Pty) Ltd. (the Proponent), intents to obtain an environmental clearance certificate for the proposed construction and operation of its warehouse and livestock holding pens on a five (5) Ha plot at Otjinene Village. The key component of the proposed activity entails the fencing off, construction of livestock handling facility, installation of key (water and power supply) infrastructure, and the sub-sequent operations thereof.

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 **12 March 2024.**

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





Shannen Doherty reveals how cancer has impacted her libido

hannen Doherty has revealed how cancer has "impacted her libido".

The 'Charmed' actress - who filed for divorce from her husband Kurt Iswarienko in April 2023 - has been open about her health struggles after first being diagnosed with breast cancer in 2015. Appearing on the 'Let's Be Clear' podcast, she said: "When you're feeling not great about yourself, that's going to kill your libido. "But then when it actually impacts your libido, when meds take your libido away, or it makes things not as pleasant, sex doesn't feel as good." She admitted it was something she tried to fix in her marriage, before

later filing for divorce.
She added: "This isn't the life that I want to live. I also don't want my husband to live like this. So I need to, you know, figure this out."

Pedcept host, friend and model Appe

Podcast host, friend and model Anne Marie Kortright urged Shannen to see Dr. Sherry Ross to help her deal



with changes in her body, but the doctor's methods left the 'Beverly Hills, 90210' star a little shocked.

Anne Marie recalled: "She's got all these little displays of toys. Then she goes, 'Here's Shannen take this,' and Shannen like shoves it in her bag." Shannen admitted the toys "stayed in my bad for a really long time".

The 52-year-old star - who recently revealed she is open to dating again after her split from Kurt - explained that cancer isn't the only issue affecting her own self confidence.

She said: "Getting older, all of it impacts not just, your exterior. "But it's also impacting the whole way that your body is reacting and responding. "And then you add to that cancer meds, you add to that chemo or and it just zaps you of everything and it takes your confidence. It takes away your identity." Shannen was diagnosed with stage 4 breast cancer in 2019 having been in a period of remission, and last year she revealed she disease has since spread to her brains and bones. However, she and her doctor have seen positive results from her latest bouts of treatment.

BANG Showbiz

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Freely you received, freely give.

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LIVESTOCK HOLDING PENS AT OTJINENE, OMAHEKE REGION

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





LASSIFIF

Tel: (061) 208 0800/44

Fax: (061) 220 584

Email: classifieds@nepc.com.na

Services

Offered

Employment

Employment **Employment**

Offered

Notice

REPUBLIC OF NAMIBIA MINISTRY OF ENVIRONMENT,

FORESTRY AND TOURISM NOTICE OF APPLICATION IN

TERMS OF THE GAMING AND ENTERTAINMENT CONTROL

ACT, 2018 (ACT NO. 13 OF 2018) SECTION 45 (2) (A) (I) FOR

application bookmaker license

of which the details are given

below. Any person who wishes to object to the application in terms of

Regulation 17 may submit his/her objection in the prescribed manner

to the Board not later than 21 days

Name of applicant: Malinda Sport Betting and Gambling CC

NAME OF RETAIL LIQUOR BUSINESS IN WHICH GAMBLING

Physical address of premises to which the application applies:

Erf 339, Levi Mwashekele Street, Tsumeb, Oshikoto Region

Type of license:

Malinda 2

CALL FOR PUBLIC PARTICIPATION

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or before 20/03/2024. Contact details for registration and

mapping, geophysical surveys, sampling and drilling.

Proponent: Johan Van der Westhuizen

Impala Environmental Consulting

Email: public@impalac.com.

Notice

Bookmaker License

WILL BE CONDUCTED:

after the publication of this notice.

BOOKMAKER LÌCENSE Notice is hereby given of the **Legal Notice**

SPCA

CLASSIFIEDS

Rates and Deadlines

- To avoid disappointment of an advertisement not appearing on the date you wish, please book timeously
- Classifieds smalls and notices: 12:00, two working days prior to
- placing
 Cancellations and alterations 16:00, two days before date of

publication in writing only Notices (VAT Inclusive)

Legal Notices from N\$460.00 Lost Land Title N\$575.00 Liquor License N\$460.00 Name Change N\$460.00 Birthdays from N\$200.00 Death Notices from N\$200.00 Tombstone Unveiling from N\$200.00

You Messages from N\$200.00

Terms and Conditions Apply.

Employment

Offered

OMITO YIILONGA

Otakukongwa Omuhondji apyokoka nawa takalongela koCimbebasia. Nakale eshi okulongitha eshina lyopashinanena (industrial machine). Ngoka ena ehalo

Ndenga ko 0857461813



Property

For Sale/ Rent



TWAHAFA REAL ESTATE

Urgently looking for houses and flats for RENT and for SALE in Windhoek

0816534437 info@twahafagroup.



Offered

ST. JOHN

Walvis Bay

ST. JOHN MEDICAL GROUP

AVAILABLE VACANCY

1. POSITION: MEDICAL PRACTITIONER

LOCATION: WALVISBAY

REQUIREMENT: Registered with the

dealth Professions Council of Namibia as a medical practitioner and the

ability to work independently.

INTERESTED CANDIDATES TO KINDLY SEND

THEIR DOCUMENTS TO:

STJOHNMEDICALCENTRE.COM

POSITION: REGISTEREDNURSE AND DISEASE

SURVEILLANCE NURSE

Company: Outapi Medical Centre

Location: Outapi

Diploma or Degree in Nursing at recognized institution. Registration with HPCNA -

Nursing Council as Registered

Basic Life Supp-ort certilate is

Experience in medicnes.
Pharmaceutical dispensin is

Nurse. Two (2) year experiencein

disease surveillance.

added advantage.

added advantage

Experience in Health

Information Sytems.
67. Priority is given to Namibian

Remuneration is Attracitve

If interested call: +264-81-304 9085 or send

Closing date 04 March 2024

Financing for solar home

system, solar water pumps

for farming & solar geysers,

available through MME Solar

Revolving Fund & FNB

West Bank

Contact: 0812446633

Email: timwaen@gmail.com

Requirements:

Offered



VACANCY

Nakula Investments CC is poised to become a leading private equity and business management company with a diverse portfolio. Nakula offers leading-edge services in Investment Construction, Engineering Consultations, Marble Mining, Manufacturing, Telecom & IT, Renewable Energy and Hospitality

NAKULA hereby invites application from suitably qualified individuals who are passionate about our mandate, to apply for the following permanent position available in Windhoek, Namibia. 1xInternational Civil Procurement & Project Management Consultant

Key Perfomance Indicators: Plan Procurement

- Management. Developing positive relationships with associates and clients
- Applying theoretical, agerial, and technical skills to fulfill identified objectives
- Implementing a solid project management strategy for task interdependency Defining the structure of a
- project, its goals, and
- resource requirements Working with architects engineers, contractors and other stakeholders to coordinate all aspects of the project from start to finish.

- Competency:

 Bachelors Degree or
 Diploma in Project
 Management Consultant
- Minimum 2 to 5 years of experience Should have technical
- experience for PMC Management skills Good communication and
- relationships skills
- Must be willing to work

Please forward your CV, Cover letter and certified documents to: hr@nakulainvestments.com

Closing date: 1 March 2024

Solar supply & installation in all 14 Regions by

GENERATION RESOURCES

Company: Outapi Medical Centre Location: Outapi

Requirements:

- Negurrements.

 1. Diploma or Degree in Nursing at recognized institution.

 2. Registration with HPCNA-Nursing Council as Registered Nurse

 3. Two (2) year experience in disperse suppliance.
- in disease surveillance .

 4. Basic Life Support certificate is added advantage .

 5. Experience in medicines/ Pharmaceuticals dispensing is added advantage 6. Experience in Health Information Systems 7. Priority is given to Namibian citizens .

Remuneration is Attractive

If interested call: +264813049085 or send C Vs/Resume to rmc@iway.na

Closing date 02 March 2024

Notice

REPUBLIC OF NAMIBIA MINISTRY OF INDUSTRIALISATION AND TRADE, LIQUOR ACT, 1998 NOTICE OF APPLICATION TO A COMMITTEE IN TERMS OF THE

LIQUOR ACT, 1998
(regulations 14, 26 & 33)
Notice is given that an application in terms of the Liquor Act, 1998, particulars of which appear below, will be made to the Regional Liquor

Licensing Committee, Region:

OTJOZONDJUPA

1. Name and postal address of applicant, P O BOX 1462 SAKARIA
P KATENGELA, GROOTFONTEIN 2. Name of business or proposed 2. Name of business of proposed Business to which applicant relates ARITHMETIC GENERAL DEALER 3. Address/Location of premises to which Application relates: MANGETTI-OUNE,

TSUMKWE AREA Nature and details of application:
SHEBEEN LIQUOR LICENCE
5. Clerk of the court with whom
Application will be lodged:
TSUMKWE MAGISTRATE COURT

 Date on which application will be Lodged: 09 MARCH 2024 -28 MARCH 2024 Date of meeting of Committee at which application will be heard:

08 MAY 2024

Any objection or written submission in terms of section 28 of the Act in relation to the applicant must be sent or delivered to the Secretary of the Committee to reach the Secretary not less than 21 days before the date of the meeting of the Committee at which the application will be heard.

REPUBLIC OF NAMIBIA MINISTRY OF ENVIRONMENT, FORESTRY AND TOURISM NOTICE OF APPLICATION IN TERMS OF THE GAMING AND ENTERTAINMENT CONTROL ACT, 2018 (ACT NO. 13 OF 2018) SECTION 45 (2) (A) (I) FOR BOOKMAKER LICENSE

Notice is hereby given of the application bookmaker license of which the details are given below. Any person who wishes to object to the application in terms of Regulation 17 may submit his/her objection in the prescribed manner to the Board not later than 21 days after the publication of this notice.

NAME OF APPLICANT:

Betvena Sports Trading Cc
TYPE OF LICENSE: Bookmaker License
NAME OF RETAIL LIQUOR

BUSINESS IN WHICH GAMBLING WILL BE CONDUCTED: Betvena Sports Trading
PHYSICAL ADDRESS OF

PREMISES TO WHICH THE APPLICATION APPLIES: Erf 2368, Evelyn Street

Katutura, Windhoek

further information:

Mr. S. Andjamba

Tel: 0856630598

Republic of Namibia



IMPALA

Notice

The Ministry of Gender Equality, Poverty Eradication, and Social Welfare

is giving notice to the mother/father or relative of a one-year-old baby girl abandoned in Onandjokwe Hospital on 03 April 2023.

Kindly, take note that this notice is important for completing placement of the child in alternative care. The Ministry is legally obliged to give this notice in terms of Section 227(5) (a) of the Child Care and Protection Act, (Act No. 3 of 2015). This notice is valid from 22 January 2024 to 16 April 2024. Thus you are required to respond to this notice within this period.

Please contact Ms. Maria Wanailonga (Social Worker) on 0814659313 or 065 244046 during official working hours.



Republic of Namibia



The Ministry of Gender Equality, Poverty Eradication, and Social Welfare

is giving notice to the mother/father or relative of a baby girl who was abandoned at Oshiyashomatope village when she was six years old in Onyaanya Constituency in March 2018.

Kindly, take note that this notice is important for completing placement of the child in alternative care. The Ministry is legally obliged to give this notice in terms of Section 227(5) (a) of the Child Care and Protection Act, (Act No. 3 of 2015). This notice is valid from **22 January 2024 to 16 April 2024.** Thus you are required to respond to this notice within this period.

Please contact Ms. Maria Wanailonga (Social Worker) on 0814659313 or 065 244046 during official working hours.





081 664 2669





Pet Open your heart to those in need. Give them a





















CALL THE SPCA ON: 061 238645 0811244520 DONATIONS:

SPCA Windhoek FNB Account: 62247995915

Code: 281174

discovery was ever made without a bold guess."

Isaac Newton-

"No great



NAMPOST

VAT Reg No: 0024451015

Branch: Windhoek

Date: 06/03/24

Time: 09:01:50

Counter: 11 BESTERND

STOCKUNIT11

Oty Product

Price VAT

1 Letter

\$6.20

\$41.70

Registered Mail

(Registered Item No:BA002765647NA)

(P1 185 Form No)

(Recipient Name: FARM GAIDIP NO 146)

(Address Line 1:P 0 BOX 798)

(Address Line 2: MARIENTAL)

(Address Line 3:NAMIBIA)

(Address Line 4)

PrePaid

-\$47.90

Net		-\$5.44	
Tax Code	Anount	Total Tax	
VAT A (0%) UAT B (15%)	\$36.26	\$5.44	
Total		\$0.00	

Name:

Address:

Receipt No: 264-10001-11-1810097-1

THANK YOU FOR USING YOUR POST OFFICE DANKIE DAT U DIE POSKANTOOR GEBRUIK TANGI ESHI HOLONGIFA OPOOSA YOYE



NAMPOST

VAT Reg No: 0024451015 ******************

Branch: Windhoek

Date: 06/03/24

Time: 09:04:14

Counter: 11 BESTERND

STOCKUNIT11

Oty Product

Price UAT

1 Letter

\$6.20

Registered Mail

\$41.70

(Registered Item No:BA002765655NA)

(P1 185 Form No)

(Recipient Name: FARM RAMANSDRIFT NO 135)

(Address Line 1:P 0 BOX 4)

(Address Line 2: WARMBAD)

(Address Line 3:NAMIBIA) (Address Line 4)

PrePaid

-\$47.90

Net

-\$5.44

Tax Code VAT A (0%)

Amount

Total Tax

VAT B (15%)

\$36.26

\$5.44

Total

\$0.00

Name:

Address:

Receipt No: 264-10001-11-1810108-2

THANK YOU FOR USING YOUR POST OFFICE DANKIE DAT U DIE POSKANTOOR GEBRUIK TANGI ESHI HOLONGIFA OPOOSA YOYE



PROFESSIONAL SUMMARY

A passionate environmentalist with 4+ years of field experience in multiple environmental roles. Expertise in Environmental Impacts Assessments, Data Collection & Analysis, Reports Writing, Environmental Laws, Water Managements and Waste Managements. Self-motivated with the skill to develop and foster creative and innovative solutions.

CONTACT

PHONE: 0818861611

EMAIL:

psevelinho@gmail.com

REFERENCES

1. Mr Simon Amagulu Supervisor (City of Windhoek) Cell: +264 81 2306398

2. Mr Riaan Oberholzer (Warden at MET Walvisbay)

Tel: 064 205 971 Cell: +264 812971780

Email: Riaan.met@gmail.com

SEVERINUS ANDJAMBA

Environmentalist

EDUCATION

University of Namibia

03/2020

Bachelor of Science in Integrated Environmental Science (Honours)

Negumbo Senior Secondary School

11/2012 NSSC Grade 12

WORK EXPERIENCE

Impala Consulting, Environmental Assessment Practitioner 01/01/2021–Current

Roles: Provide environmental impact assessments (EIA), environmental scoping reports, and environmental management plans (EMPs) for any proposed developments. Compiling BID for different projects and engage in public meeting.

City of Windhoek, Intern for Water Resources Management

01/11/2022-30/06/2023

Roles: Monitoring boreholes - field data collection and entry for the Geohydrology Unit in the section

Ministry of Environment and Tourism, Intern

03/12/2018-11/01/2019

Role: Law enforcement, patrol of national park, extension work and refuse collection.

Outapi Town Council, Intern

12/12/2017-19/01/2018

Roles: Monitoring the dumping site to ensure safe waste disposal, educate community on solid & liquid waste management, conduct environmental/hygiene inspections, issues fitness certificates to businesses, extension work.

SKILLS

Environmental inspections Water management Environmental impact assessment

Field data collection

Report preparation and presentation

Mr. Ndaluka Amutenya

1. **Proposed Position:** Environmental Coordinator

2. Name of Firm: Impala Environmental Consulting

3. Name of Staff: Ndaluka Amutenya

4. Nationality: Namibian

5. Education: - Bachelor of Technology, Chemical Engineering,

University of South Africa, 2020

- Bachelor of Science, Chemistry Major and Geology Minor,

University of Namibia, 2012

- Namibia Senior Secondary Certificate (NSSC),

Otjikoto Senior Secondary School, 2008

6. Membership of Professional Associations:

- None

7. Other Training: - None.

8. Countries of Work Experience: Namibia

9.	Languages:		Speaking	Readir	ng	Writing	!
		English Afrikaans Oshiwambo	Excel Excel Excel	lent	Excelle Good Excelle		Excellent Good Excellent

10 Employment Record:

From: 2019 to Present

Employer: Impala Environmental Consulting
Positions held: Environmental Assessment Practioner

From: 2015 to 2018

Employer: Tschudi Copper Mine

Positions held: Chemist

From: 2013 to 2015

Employer: Heat Exchange Products (Water Treatment)

Positions held: Water Treatment Specialist

11. Detailed Tasks Assigned	12. Past Projects Undertaken
Project Local ConsultantClient Liaison	Name of assignment or project: Catchment Management Plan for the swakoppoort dam namibia Year: 2020 Location: Okahandja, Namibia. Client: Namwater

 Water Sampling and Reporting Project Management Project Supervision 	Main project features: Catchment Management Plan for the Swakoppoort Dam. Positions held: Local Consultant Activities performed: Water Sampling, logistics, site inspections and report writing.
 Project Leader Client Liaison Public Participation Report Writing Project Management Project Supervision 	Name of assignment or project: Environmental Impact Assessment for the Development of a Tantalite Mine, Southern Namibia. Year: 2020 Location: Warmbad, Karas Region Client: Orange River Pegmatite (Pty) Ltd Main project features: Environmental Management Positions held: Lead Consultant Activities performed: Project Management, Report Writing, Public Participation, Site Inspections, Stakeholder Engagement, Specialist Study Inputs and Map production.
 Project Leader Client Liaison Public Participation Report Writing Project Management Project Supervision 	Name of assignment or project: Environmental Impact Assessment for Proposed Development of A Medical Tourism University Hospital In Henties Bay Year: 2020 Location: Henties Bay, Erongo Region Client: Franco Civil Engineeering Cc Main project features: Environmental Impact Assessment. Positions held: Lead Consultant Activities performed: Project Management, Report Writing, Public Meetings, Site Inspections, Stakeholder Engagement, Specialist Study Inputs and Map production.
 Project Leader Client Liaison Public Participation Report Writing Project Management Project Supervision 	Name of assignment or project: Environmental Impact Assessment for the Development of a Marble Mine. Year: 2020 Location: 10 km north of Karibib Client: Sunsand Investments (Pty) Ltd Main project features: Environmental Impact Assessment. Positions held: Lead Consultant Activities performed: Project Management, Report Writing, Public Meetings, Site Inspections, Stakeholder Engagement, Specialist Study Inputs and Map production.
 Project Leader Client Liaison Public Participation Report Writing Project Management Project Supervision 	Name of assignment or project: Environmental Impact Assessment for Dimension Stone Quarrying Activities on Mining Claims 71816, 71817, 71818, 71819, 71820, 71821, 71822, 71823, 71824, And 71825. Year: 2020 Location: 40 km northwest of Arandis Client: Rockstar Mining cc Main project features: Environmental Impact Assessment. Positions held: Lead Consultant Activities performed: Project Management, Report Writing, Public Meetings, Site Inspections, Stakeholder Engagement, Specialist Study Inputs and Map production.

 Project Leader Client Liaison Public Participation Report Writing Project Management Project Supervision 	Name of assignment or project: Environmental Impact Assessment for Sand Mining Activities on Mining Claim 72027 Year: 2020 Location: 30 km North of Ongwediva Client: Comitx Investments Group CC Main project features: Environmental Impact Assessment. Positions held: Lead Consultant Activities performed: Project Management, Report Writing, Public Meetings, Site Inspections, Stakeholder Engagement, Specialist Study Inputs and Map production.
 Project Leader Client Liaison Public Participation Report Writing Project Management Project Supervision 	Name of assignment or project: Environmental Impact Assessment for Mineral Exploration Activities on EPL 6408 Year: 2020 Location: 5 km south of Karibib Client: Antler Gold Inc Main project features: Environmental Impact Assessment. Positions held: Lead Consultant Activities performed: Project Management, Report Writing, Public Meetings, Site Inspections, Stakeholder Engagement, Specialist Study Inputs and Map production.
 Project Leader Client Liaison Public Participation Report Writing Project Management Project Supervision 	Name of assignment or project: Environmental Impact Assessment for Dimension Stone Quarrying Activities on Mining Claims 71896-71900 Year: 2020 Location: 15 km north of Karibib Client: Triple Tas Trading cc Main project features: Environmental Impact Assessment. Positions held: Lead Consultant Activities performed: Project Management, Report Writing, Public Meetings, Site Inspections, Stakeholder Engagement, Specialist Study Inputs and Map production.
 Project Leader Client Liaison Public Participation Report Writing Project Management Project Supervision 	Name of assignment or project: Environmental Impact Assessment for Mineral Exploration on EPL 7930 Year: 2020 Location: 40 km northwest of Karibib Client: Antler Gold Inc Main project features: Environmental Impact Assessment. Positions held: Lead Consultant Activities performed: Project Management, Report Writing, Public Meetings, Site Inspections, Stakeholder Engagement, Specialist Study Inputs and Map production.
Project LeaderClient LiaisonPublic Participation	Name of assignment or project: Environmental Impact Assessment for Dimension Stone Quarrying Activities on

Penort Writing	Mining Claims 72100, 72101, 72102, 72103, 72104,
 Report Writing Project Management Project Supervision 	72105 And 72106 Year: 2020 Location: 40 km northeast of Arandis Client: Tala Mining cc Main project features: Environmental Impact Assessment. Positions held: Lead Consultant Activities performed: Project Management, Report Writing, Public Meetings, Site Inspections, Stakeholder Engagement, Specialist Study Inputs and Map production.
 Project Leader Client Liaison Public Participation Report Writing Project Management Project Supervision 	Name of assignment or project: Environmental Impact Assessment for Mineral Exploration on EPL 5702 Year: 2020 Location: 30 km South of Kamanjab Client: Emor Mining (Pty) Ltd Main project features: Environmental Impact Assessment. Positions held: Lead Consultant Activities performed: Project Management, Report Writing, Public Meetings, Site Inspections, Stakeholder Engagement, Specialist Study Inputs and Map production.
 Project Leader Client Liaison Public Participation Report Writing Project Management Project Supervision 	Name of assignment or project: Environmental Impact Assessment for the Development of a Lodge in the Daures Conservancy Area. Year: 2019 Location: 50-80 km northwest of UIS Client: !U-#Gab Ams Investment cc Main project features: Environmental Impact Assessment. Positions held: Lead Consultant Activities performed: Project Management, Report Writing, Public Meetings, Site Inspections, Stakeholder Engagement, Specialist Study Inputs and Map production.
 Project Leader Client Liaison Public Participation Report Writing Project Management Project Supervision 	Name of assignment or project: Eia For the Proposed Establishment of a Service Station on Erf 4121, Khorixas Year: 2019 Location: Khorixas Client: Noabeb's Trading Enterprises cc Main project features: Environmental Impact Assessment. Positions held: Lead Consultant Activities performed: Project Management, Report Writing, Public Meetings, Site Inspections, Stakeholder Engagement, Specialist Study Inputs and Map production.
 Project Leader Client Liaison Public Participation Report Writing Project Management Project Supervision 	Name of assignment or project: Environmental Impact Assessment on dimension stone and industrial mineral quarrying activities on mining claims 71227 and 71228. Year: 2019 Location: 10 km south of Omaruru Client: Hiku Poultry and Trading CC Main project features: Environmental Impact Assessment.

	Positions held: Lead Consultant Activities performed: Project Management, Report Writing, Public Meetings, Site Inspections, Stakeholder Engagement, Specialist Study Inputs and Map production.	
 Project Leader Client Liaison Public Participation Report Writing Project Management Project Supervision 	Name of assignment or project: Environmental Impact Assessment for Mineral Exploration Activities on Epl 5818, Central Namibia Year: 2019 Location: 40 km east of Khorixas Client: Gravity Empire Investments (Pty) Ltd Main project features: Environmental Impact Assessment. Positions held: Lead Consultant Activities performed: Project Management, Report Writing, Public Meetings, Site Inspections, Stakeholder Engagement, Specialist Study Inputs and Map production.	
 Project Leader Client Liaison Public Participation Report Writing Project Management Project Supervision 	Name of assignment or project: Environmental Impact Assessment for Mineral Exploration on Epl 6374 Year: 2019 Location: 50 km South of Opuwo Client: Nami Geological Techniques (Pty) Main project features: Environmental Impact Assessment. Positions held: Lead Consultant Activities performed: Project Management, Report Writing, Public Meetings, Site Inspections, Stakeholder Engagement, Specialist Study Inputs and Map productions	