

A SCOPING REPORT ON THE ENVIRONMENTAL IMPACT ASSESSMENT FOR MINERAL EXPLORATION ACTIVITIES ON EPL 9603, CENTRAL NAMIBIA

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CONSULTANT	PROPONENT
Impala Environmental consulting Unit 89, Auas Hill Village, Auas Blick, Windhoek Postal Address: P.O Box 29532, Windhoek, Namibia Tel: 061258910/0856630598 eia@impalac.com www.impalac.com	Lepidolite Investments CC Erf 156, Diaz Street, Suiderhof, Windhoek, Namibia P. O. Box 20599, Windhoek, Namibia Cell: +264 816672988

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ENVIRONMENTAL ASSESSMENT FOR MINERAL EXPLORATION ON EPL 9603, CENTRAL NAMIBIA

EXECUTIVE SUMMARY

1. Introduction

1.1 Overview

The proponent, Lepidolite Investments CC, was provisionally granted an exclusive prospecting licence (EPL) by the Ministry of Mines and Energy. The licence holder intends to explore for copper. 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 88 km west of Outjo. The coordinates for the centre of the licence are 15.223816 and -19.893953.

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.

ENVIRONMENTAL ASSESSMENT FOR MINERAL EXPLORATION ON EPL 9603, CENTRAL NAMIBIA

FINAL SCOPING REPORT

Table of Contents

EXECUTIVE SUMMARY	1
1. Introduction	7
1.1 Project Background.....	7
1.1.1 Mineral Licence Tenure	8
1.1.2 Environmental Consultant.....	8
1.1.3 Proponent of the Proposed Project.....	8
1.2 Project Location	10
1.3 Infrastructure and Services	11
1.3.1 Electricity	11
1.3.2 Water Supply	11
1.3.3 Refuse and Waste Removal	11
1.3.4 IT Systems and Communication	12
1.3.5 Security and Fencing.....	12
1.3.6 Buildings	12
1.3.7 Roads	13
1.3.8 Mobile Equipment.....	14
1.3.9 Fuel Distribution, storage and supply	15
1.3.10 Storage of Lubrication and consumables.....	15
1.3.11 Fire Fighting Provision	15
1.4 Environmental Impact Assessment Requirements.....	15
1.5 Purpose of the Scoping Report	15
1.6 Terms of Reference	16
1.6.1 Environmental Assessment Approach and Methodology.....	19
1.6.2 List of Specialist Studies Undertaken	21
1.7 Need and Desirability	21
1.7.1 Need of the Exploration Project.....	21
1.7.2 Alternatives.....	22
2 Summary of applicable legislation	23
2.1 Environmental Management Act of 2007	23

2.2	The Minerals Prospecting and Mining Act of 1992	23
2.3	Water Resources Management Act of 2004	23
2.4	Nature conservation ordinance, ordinance No. 4 of 1975	23
2.5	National Heritage Act, 2004 (Act No. 27 of 2004)	24
2.6	Petroleum Products and Energy Act No. 13 of 1990	24
2.7	Forest Act, No. 12 of 2001	24
2.8	Atmospheric Pollution Prevention Ordinance 11 of 1976	25
2.9	Hazardous Substance Ordinance, No. 14 of 1974	25
2.10	Namibian Water Corporation (Act 12 of 1997)	26
2.11	Public and Environmental Health Act, 2015	26
2.12	Agricultural (Commercial) Land Reform Act 6 of 1995	26
3	Description of Proposed Mineral exploration Project	27
3.1	Introduction	27
3.2	Prospecting Phase (Non- Invasive Techniques)	27
3.2.1	Desktop study	27
3.3	Exploration Phase (Invasive Techniques)	28
3.3.1	Detailed Exploration (Drilling)	28
3.4	Decommissioning and Rehabilitation Phase	31
4	Description of the Current Environment	32
4.1	Introduction	32
4.2	Climatic Conditions	32
4.2.1	Temperature	32
4.2.2	Precipitation	33
4.2.3	Wind	34
4.2.4	Humidity	35
4.2	Air Quality	36
4.3	Geology	37
4.3.1	Geological setting	37
4.4	Hydrogeology and Water Resources	39
4.5	Flora	40
4.6	Fauna	42
4.6.1	Introduction	42
4.6.2	Amphibians	42
4.6.3	Mammals	44

4.6.4	Reptiles.....	45
4.7	Avifauna (Birds).....	46
4.8	Archaeology and Heritage Sites.....	46
4.9	Socio-Economic Environment	47
4.9.1	Demographics of Outjo	47
4.9.2	Social Economic Impact	47
5.	Assessment of Impacts	48
5.1.	Overall socio-economic benefits and issues	49
5.1.1.	Socio-economic benefits.....	49
5.2.	Mineral Exploration phases and associated issues.....	50
5.2.1.	Mapping and Geochemical Sampling Phase of the Project	50
5.2.2.	Drilling Phase of the Project.....	52
6.	Environmental Management Plan	57
6.1	Overview	57
6.2	Environmental Management Principles.....	57
6.3	Impacts on the Bio-physical Environment	59
6.3.1	Impacts on Archaeological Sites.....	59
6.3.2	Impacts on Fauna	60
6.3.3	Impacts on Avifauna	61
6.3.4	Impact on Vegetation.....	61
6.3.5	Impacts of Alien invasive Plants	61
6.3.6	Impacts on Socio-Economic	62
6.3.7	Visual Impacts	62
6.3.8	Use of Natural Resources.....	63
6.3.9	Generation of Solid Waste	63
6.3.10	Noise	63
6.3.11	Air Quality	64
6.4	Summary of Environmental Management Plan during construction, operation and decommissioning phases.....	64
6.5	Monitoring, Auditing and Reporting	68
6.5.1	Inspections and Audits.....	68
6.5.2	Environmental Management System Framework	69
6.6	Closure Plan.....	72
6.6.1	Alternatives Considered.....	72

6.6.2	Preferred Alternative: Rehabilitation/ Backfill of boreholes	73
6.6.3	Closure Assumptions.....	74
6.6.4	Closure and Rehabilitation Activities	74
7.	Public Participation Process	78
8.	Conclusion	79
9.	References	81
	Appendix A.....	83
	Appendix B: Proof of Advertisements, Letters and Notices	90
	Appendix of CV's.....	91

List of Figures

Figure 1 A satellite imagery showing the orientation of the mineral exploration licence.....	7
Figure 2 A map showing the farms surrounding the mineral exploration licence.....	9
Figure 3 Locality map of the exclusive prospecting licence area.....	10
Figure 4 Topographic map showing the existing road network within the licence area.	14
Figure 5 Flowchart of the Environmental Impact Assessment process followed in Namibia.	18
Figure 6 A graph showing the temperature patterns in Outjo, from www.worldweatheronline.com	33
Figure 7 A graph showing rainfall patterns in Outjo, from www.worldweatheronline.com	34
Figure 8 A graph showing windspeed patterns in Outjo, from www.worldweatheronline.com	35
Figure 9 A graph showing the humidity patterns in Outjo, from www.worldweatheronline.com	36
Figure 10 A geological map of the area.....	38

List of Tables

Table 1 A table showing plant species which are likely to occur in the area	40
Table 2 Table of plant species which are protected under the Forestry Act and likely to occur in the area.....	42
Table 3 A list of amphibian species which may occur in the project area.....	43
Table 4 Mammal species which are likely to occur within the project area.....	44
Table 5 Protected reptile species in the project area	45
Table 6 Bird species which are likely to occur within the site area.	46
Table 7 Assessment methodology used to examine the impacts identified.....	48
Table 8 Impact evaluation for socio-economy	50
Table 9 Impact evaluation for the target generation phase of the project.....	51
Table 10 Impact evaluation for the operational phase of the project	55
Table 11 Registered IAP's from various organs of state.	78

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/**9603**. The mineral licence is provisionally issued to Lepidolite Investments CC.

The size of the mineral licence is **29,723.24 Hectares**. It is granted Base and Rare Metals, Dimension Stone, Industrial Minerals and Precious Metals commodities.

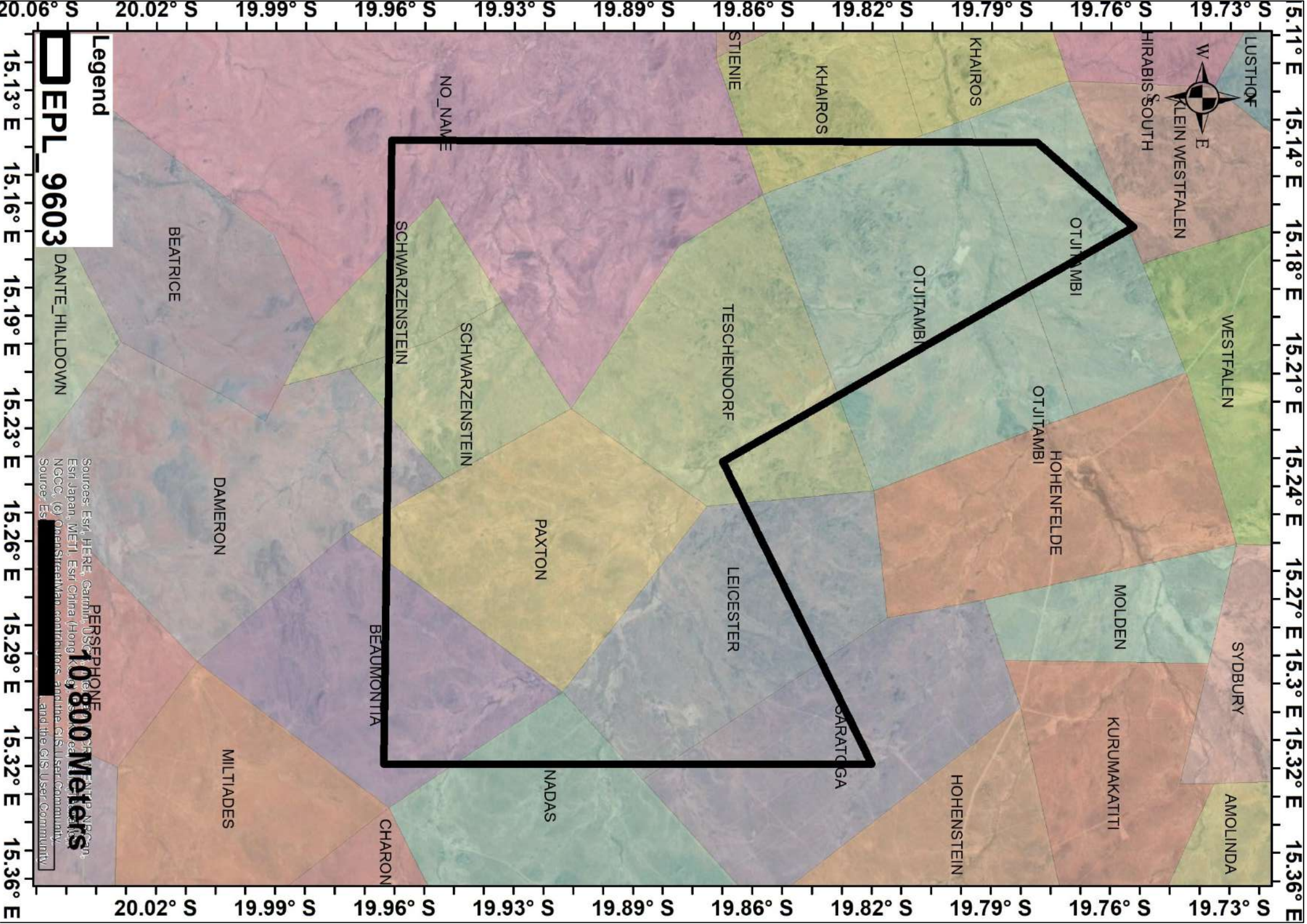
1.1.2 Environmental Consultant

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 Lepidolite Investments CC.

Licence Holder	Postal Address	Email Address	Contact
Lepidolite Investments CC	P. O. Box 20599, Windhoek, Namibia		+264 816672988



The mineral license is located about 88 km west of Outjo. The coordinates for the centre of the licence are 15.223816 and -19.893953.



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 for the exploration operations on the EPL will be obtained from the nearest existing boreholes, or the proponent will drill boreholes for water within the EPL, upon obtaining necessary permits and signed agreements with the landowners in the area. Estimated monthly water consumptions are at 4 500 liters. This includes water for drinking, sanitation, cooking, dust control (if necessary), drilling, as well as washing of equipment.

1.3.3 Refuse and Waste Removal

The site will be equipped with secured waste bins for each type of waste (i.e., domestic, hazardous, and recyclable). Depending on the amount generated, waste will be sorted and collected as regularly as possible and taken to the nearest certified landfill site. An agreement will need to be reached with different waste management facility operators/owners and authorization or permits will be obtained prior to utilizing these facilities, in the case of production of any hazardous waste.

- **Sanitation and human waste:** Appropriate portable ablution facilities will be provided, and the sewage waste will be disposed of according to the approved disposal or treatment methods of the facility manufacturer.
- **Hazardous waste:** Drip trays and spill control kits will be available on site to ensure that oil/fuel spills and leaks from vehicles and equipment are captured timeously and contained correctly before polluting the site.

Waste produced on-site can also be categorized as mineral or non-mineral waste:

- **Mineral Waste:** Consists of solid products of exploration and mineral concentration to acquire the targeted minerals. Mineral waste will potentially be produced throughout the exploration phase. This waste will be stripped and dumped in allocated areas as stipulated in the EMP.
- **Non-mineral Waste:** Consists primarily of auxiliary materials that will support the exploration phase. This includes but is not limited to items such as empty containers, plastic, etc., and other domestic waste. This waste will be collected, sorted, and taken to the dumpsite as regularly as necessary.

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

- **Storage Site:** Temporary storage areas for exploration material, equipment, and machinery will be required at the campsite and/or exploration sites. Security will be supplied on a 24-hour basis at the delegated sites for storage. A temporary support fence surrounding the storage site will be constructed to ensure people and domestic animals are not put at risk.
- **Fire management:** Basic firefighting equipment, i.e., fire extinguishers, will be readily available in vehicles, at the working sites and camps. The exploration crew is required to have the contact details of the nearest fire station at hand in case of a larger scale of fires at site, in particular “veld” or bush fires, which can spread rapidly over large areas.
- **Health and Safety:** Adequate and appropriate Personal Protective Equipment (PPE) will be provided to every project personnel while working at site. A first aid kit will be readily available on site to attend to potential injuries.

1.3.6 Buildings

The exploration staff will be accommodated in a camp site, which will consist of tents, caravans and/or make-shift buildings and temporary ablution facilities. The campsite will be set up near the exploration sites on the EPL. If the accommodation camp is to

be set up on a farm /in the village, all necessary arrangements will be made with the landowner(s). Exploration activities will take place during daytime only and staff will commute between the exploration site(s) and their place of accommodation.

1.3.7 Roads

Access to the mineral exploration sites is limited as there are currently no convenient roads, except for 4x4 tracks. From Outjo the project site will be accessible via the C40 road. New but few tracks will be created to ensure easy access to drill sites and Project specific target areas. Overall, all vehicles must use existing road tracks, and all new access routes to the drill sites should be identified, and agreed upon with the relevant

stakeholders.

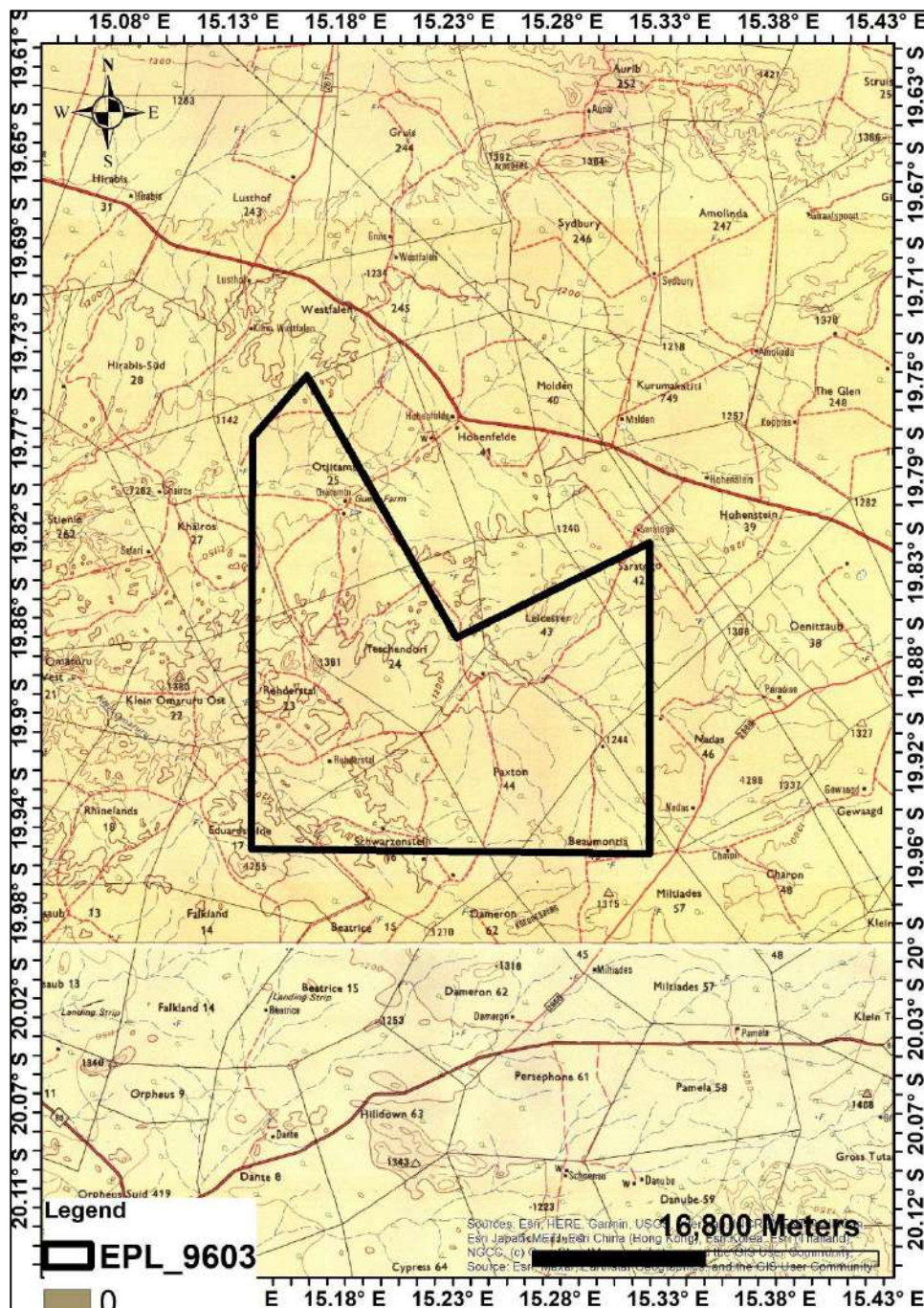


Figure 4 Topographic map showing the existing road network within the licence area.

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 88 km west of Outjo. 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.

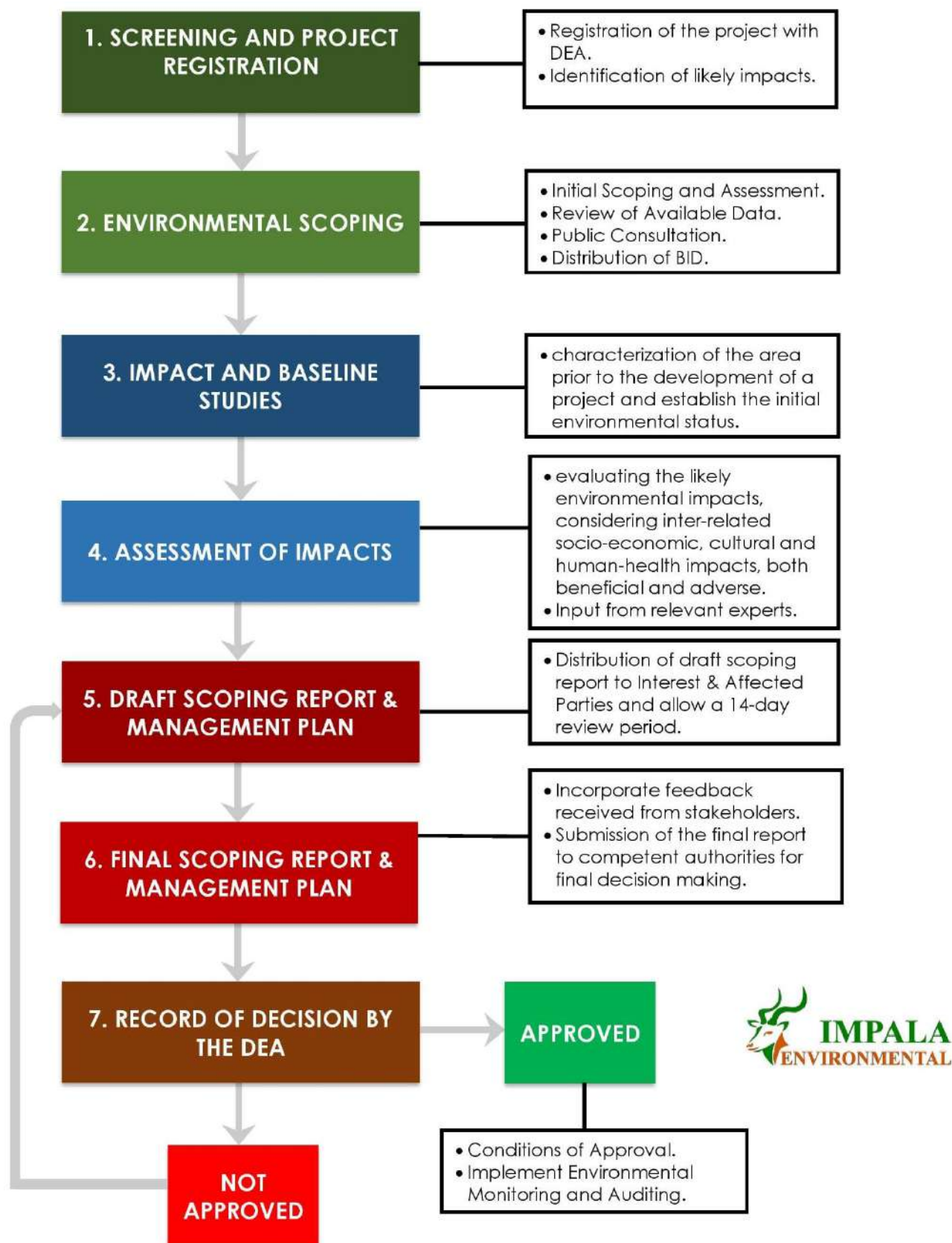


Figure 5 Flowchart of the Environmental Impact Assessment process followed in Namibia.

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 beneficinations 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

Prospecting and exploration for minerals are the first components of any potential mining project. These are carried out to acquire the necessary data required for further decision making and investment options. These activities are anticipated to last for about three years. The exploration process includes three phases: prospecting, exploration, and the decommissioning of works.

3.2 Prospecting Phase (Non- Invasive Techniques)

3.2.1 Desktop study

This mainly entails a desktop review of historical geological work done on the EPL, including regional mapping of the targeted district, acquisition of existing geophysical and geochemical data sets, familiarization with past studies of the project area and creating relationships with landowners and local authorities for land access.

3.2.2 Geophysical Surveys

Geophysical surveys entail data collection of the substrata by air or ground, through sensors such as radar, magnetic and/or electromagnetic sensors, to detect and ascertain possible mineralization in the area. Ground geophysical surveys shall be conducted, where necessary, using vehicle-mounted sensors or handheld by staff members, while in the case of air-borne surveys, the sensors are mounted to an aircraft, which navigates over the target area.

3.2.3 Lithology geochemical Surveys

Rock and soil samples shall be collected and taken for trace element analysis at analytical chemistry laboratories to determine the existence, the grade (concentration) and the regional extent of mineralization on the EPL. Additionally, trenches or pits may be dug depending on the commodity (in a controlled environment e.g., fencing off and labeling activity sites), using either manual techniques (jack hammers) or excavators to further investigate the mineral potential.

Soil sampling entails digging of small, about 20 cm deep pits along survey lines, where 1kg of sample material is extracted and sieved for finer grain-size to collect about 50g of very fine soil from it, representing the entire sample. As necessary, and to ensure adequate risk mitigation, all major excavations will be closed immediately after obtaining the needed samples, or the sites will be secured until the trenches or pits are closed. The landowner and other relevant stakeholders will be engaged to obtain authorization where necessary.

3.3 Exploration Phase (Invasive Techniques)

The selection of the potential mineralization model and exploration targets will be based on the local geology, and the trenching, drilling, and assay results of the samples collected. The planned exploration activities are aimed at delineating the mineral deposits and determining whether the deposits are economically feasible mining resources.

No explosives will be used during the exploration phase.

3.3.1 Detailed Exploration (Drilling)

Should analyses by an analytical laboratory yield positive results, drilling targets are defined, drilled and subsurface samples collected for further analysis. This determines the depth of the potential mineralization. If necessary, new access tracks to the drill sites will be created and drill pads at which to set up the rig will be cleared. Two widely used drilling options may be adopted - the Reverse Circulation (RC) drilling method and/or the Diamond (Core) drilling method. The RC drilling method uses a pneumatic hammer, which drives a rotating tungsten-steel bit. RC Drilling produces an uncontaminated large volume sample, which comprises rock chips. It is relatively quicker and cheaper when compared to other techniques like Diamond Drilling. However, diamond drilling may also be considered for this exploration programme, for better geological control and to perform processing trials.

A typical RC drilling team is made up of 4-5 people (rig operator and assistants), a drilling rig carrying a compressor, a support truck with the drill pipes, 2-3 4x4 vehicles and a water bowser. All geological samples and drill cores will be stored temporarily

at the driller's field camp. This camp may also be used as a place to park and maintain field vehicles, and includes storage facilities for fuel and lubricants.

Other aspects of the proposed exploration operations include.

3.3.1.1 Accessibility to Site

The proposed project site is easily accessible via the C40 road from Outjo. New but few tracks will be created to ensure easy access to drill sites and Project specific target areas. Overall, all vehicles must use existing road tracks, and all new access routes to the drill sites should be identified, and agreed upon with the relevant stakeholders

3.3.1.2 Material and Equipment

The requirements of the exploration program in terms of vehicles and equipment include: 4X4 vehicles, a drilling rig, a drill pipe truck, water tanks, a diesel tank, a power generator, and a tented camp to accommodate the crew. Equipment and vehicles will be stored at a designated area near the accommodation site or a storage site established within the EPL area.

3.3.1.3 Services and Infrastructure

- **Water:** Water for the exploration operations on the EPL will be obtained from the nearest existing boreholes, or the proponent will drill boreholes for water within the EPL, upon obtaining necessary permits and signed agreements with the landowners in the area. Estimated monthly water consumptions are at 4 500 liters. This includes water for drinking, sanitation, cooking, dust control (if necessary), drilling, as well as washing of equipment.
- **Power supply:** Power required during the operation phase will be provided from diesel-generators. About 1500 litres of diesel will be used per day.
- **Fuel (diesel for generators and other equipment):** The fuel (diesel) required for exploration equipment will be stored in a tank mounted on a mobile trailer. Drip trays will be readily available and monitored to ensure that accidental fuel spills are cleaned up as soon as they have been detected/observed. Fuel may also be stored in a bunded diesel bowser on site, and in jerry cans placed on plastic sheeting to avoid unnecessary contamination of soils.

3.3.1.4 Waste Management

The site will be equipped with secured waste bins for each type of waste (i.e., domestic, hazardous, and recyclable). Depending on the amount generated, waste will be sorted and collected as regularly as possible and taken to the nearest certified landfill site. An agreement will need to be reached with different waste management facility operators/owners and authorization or permits will be obtained prior to utilizing these facilities, in the case of production of any hazardous waste.

- **Sanitation and human waste:** Appropriate portable ablution facilities will be provided, and the sewage waste will be disposed of according to the approved disposal or treatment methods of the facility manufacturer.
- **Hazardous waste:** Drip trays and spill control kits will be available on site to ensure that oil/fuel spills and leaks from vehicles and equipment are captured timeously and contained correctly before polluting the site.

Waste produced on-site can also be categorized as mineral or non-mineral waste:

- **Mineral Waste:** Consists of solid products of exploration and mineral concentration to acquire the targeted minerals. Mineral waste will potentially be produced throughout the exploration phase. This waste will be stripped and dumped in allocated areas as stipulated in the EMP.
- **Non-mineral Waste:** Consists primarily of auxiliary materials that will support the exploration phase. This includes but is not limited to items such as empty containers, plastic, etc., and other domestic waste. This waste will be collected, sorted, and taken to the dumpsite as regularly as necessary

3.3.1.5 Safety and Security

- **Storage Site:** Temporary storage areas for exploration material, equipment, and machinery will be required at the campsite and/or exploration sites. Security will be supplied on a 24-hour basis at the delegated sites for storage. A temporary support fence surrounding the storage site will be constructed to ensure people and domestic animals are not put at risk.
- **Fire management:** Basic firefighting equipment, i.e., fire extinguishers, will be readily available in vehicles, at the working sites and camps. The exploration

crew is required to have the contact details of the nearest fire station at hand in case of a larger scale of fires at site, in particular “veld” or bush fires, which can spread rapidly over large areas.

- **Health and Safety:** Adequate and appropriate Personal Protective Equipment (PPE) will be provided to every project personnel while working at site. A first aid kit will be readily available on site to attend to potential injuries.

3.3.1.6 Accommodation

The exploration crew / project personnel will be accommodated in a camp site, which will consist of tents, caravans and/or make-shift buildings and temporary ablution facilities. The campsite will be set up near the exploration sites on the EPL. If the accommodation camp is to be set up on a farm /in the village, all necessary arrangements will be made with the landowner(s). Exploration activities will take place during daytime only and staff will commute between the exploration site(s) and their place of accommodation.

3.4 Decommissioning and Rehabilitation Phase

Once the exploration activities on the EPL come to an end, the Proponent will need to put site rehabilitation measures in place. Decommissioning and rehabilitation are primarily reinforced through a decommissioning and rehabilitation plan, which consists of safety, health, environmental, and contingency aspects. An unfavourable economic situation or unconvincing exploration results might force the Proponent to cease the exploration program before predicted closure. Therefore, it is of best practice for the Proponent to ensure that the project activities cease in an environmentally friendly manner and the sites are rehabilitated.

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 Erongo in the south (Mendelsohn, et al., 2002). Kunene Region occupies the north-west corner of Namibia. The Skeleton Coast Park forms its entire western boundary with the Atlantic Ocean. The Kunene River with its Epupa Falls forms an international boundary with Angola to the north. Nationally, Kunene is bordered by Omusati Region and the western boundary of Etosha National Park. In the south it forms the southern boundary of most of Etosha National Park and borders Erongo and Erongo regions. The region is home to the Skeleton Coast Park and many conservancies.

The Kunene Region encompasses a range of biomes or landscapes neatly arranged parallel to one another. On the west is the forbidding Skeleton Coast - a region of rocks, fog, shipwrecks and desolation, washed by the waters of the Benguela current, which brings Antarctic cold to desert heat. The region's administrative capital is Opuwo. The Kunene Region covers an area of 115,293 km² of the total Namibian land. This figure shows a population density of 1.6 persons per km². Kunene Region is the second largest region in Namibia after //Karas Region.

4.2 Climatic Conditions

4.2.1 Temperature

In the proposed area, the hot season lasts for 4.6 months, from September 8 to January 26, with an average daily high temperature above 32°C. The hottest month of the year in Outjo is December, with an average high of 33°C and low of 17°C.

The cool season lasts for 2.3 months, from May 25 to August 1, with an average daily high temperature below 27°C. The coldest month of the year in Outjo is June, with an average low of 7°C and high of 26°C.

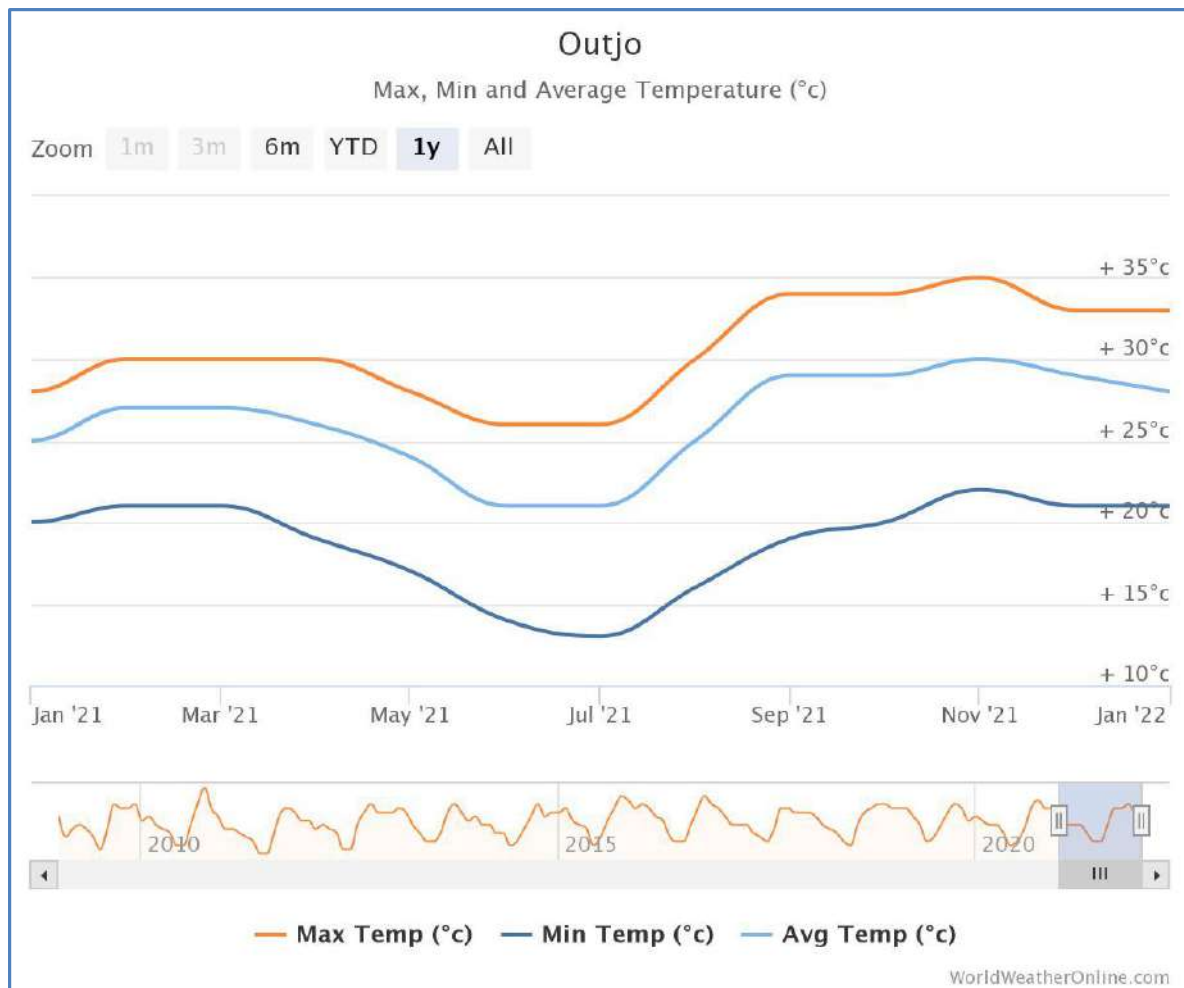


Figure 6 A graph showing the temperature patterns in Outjo, from www.worldweatheronline.com

4.2.2 Precipitation

In the proposed area, the highest rainfall is usually experienced in March which may reach 180 mm with average rainfall days of 14. In January months, rain-fall may reach about 100 mm with average rainfall days. The graph below shows the rainfall patterns in the area.

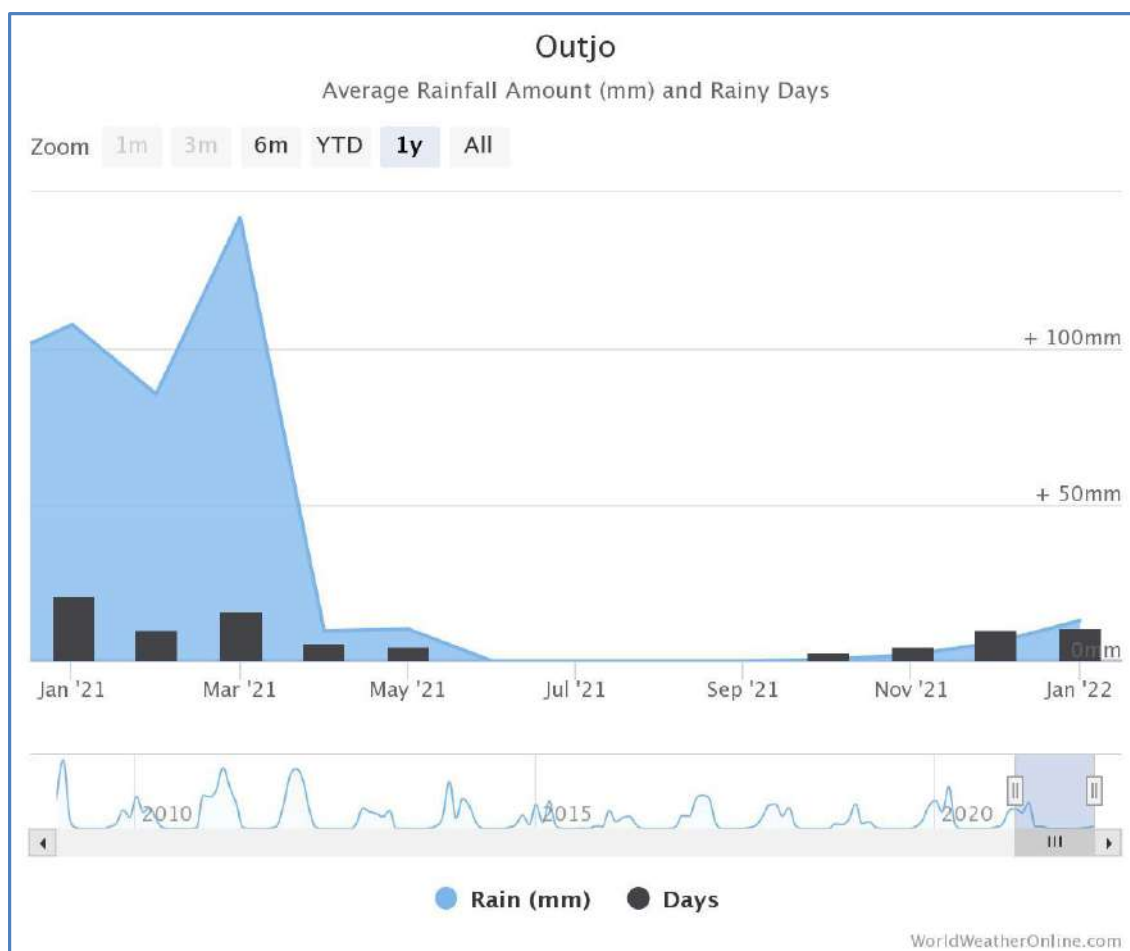


Figure 7 A graph showing rainfall patterns in Outjo, from www.worldweatheronline.com

4.2.3 Wind

The windiest months (with the highest average wind speed) are October and November (17.5kmph). The calmest month (with the lowest average wind speed) is March (13kmph).

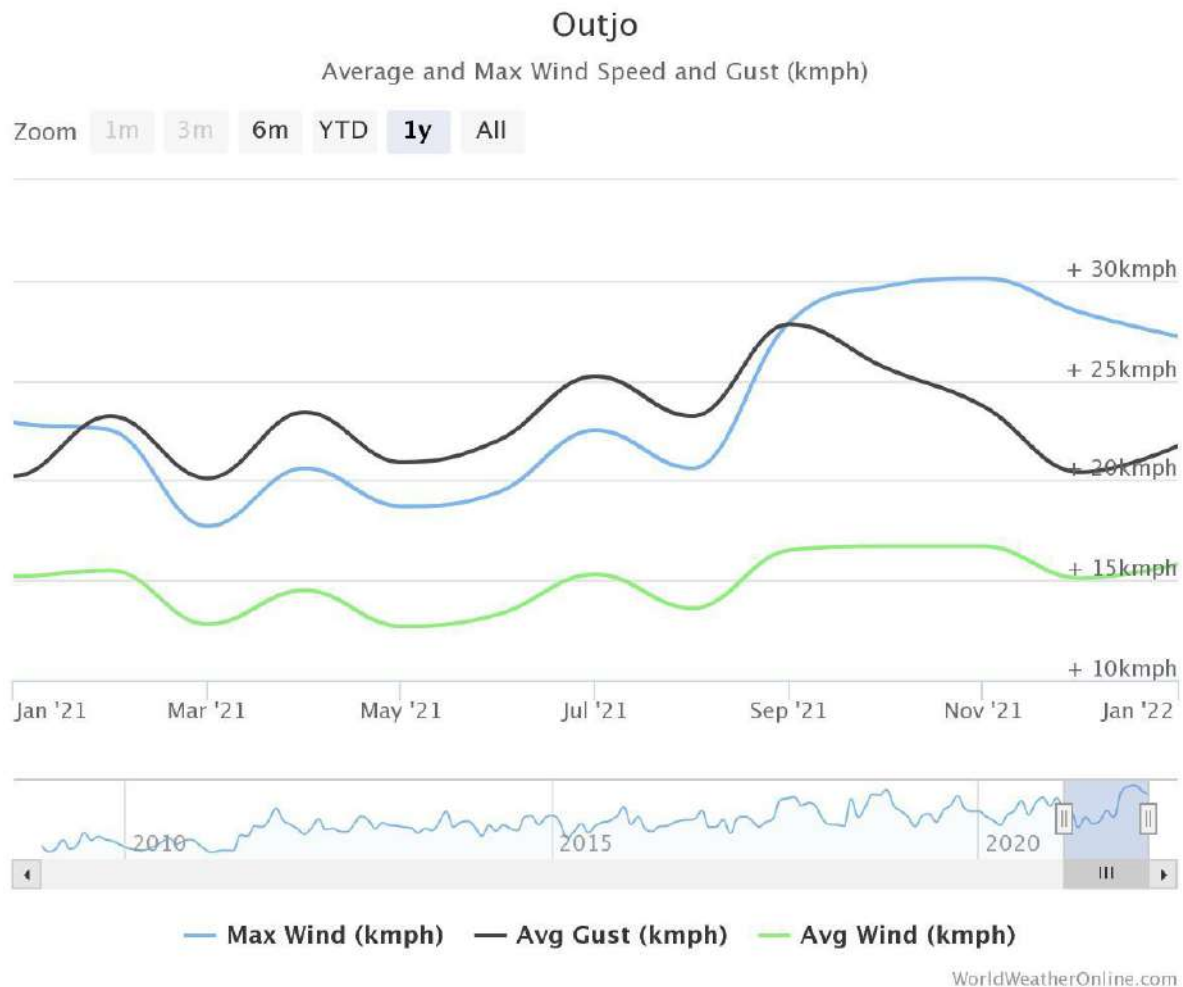


Figure 8 A graph showing windspeed patterns in Outjo, from www.worldweatheronline.com

4.2.4 Humidity

The relative humidity during the least humid months of the year, i.e. September and November, is around 16-18% and the most humid month is January with 50-60% humidity. Namibia has a low humidity in general, and the lack of moisture in the air has a major impact on its climate by reducing cloud cover and rain and increases the rate of evaporation.

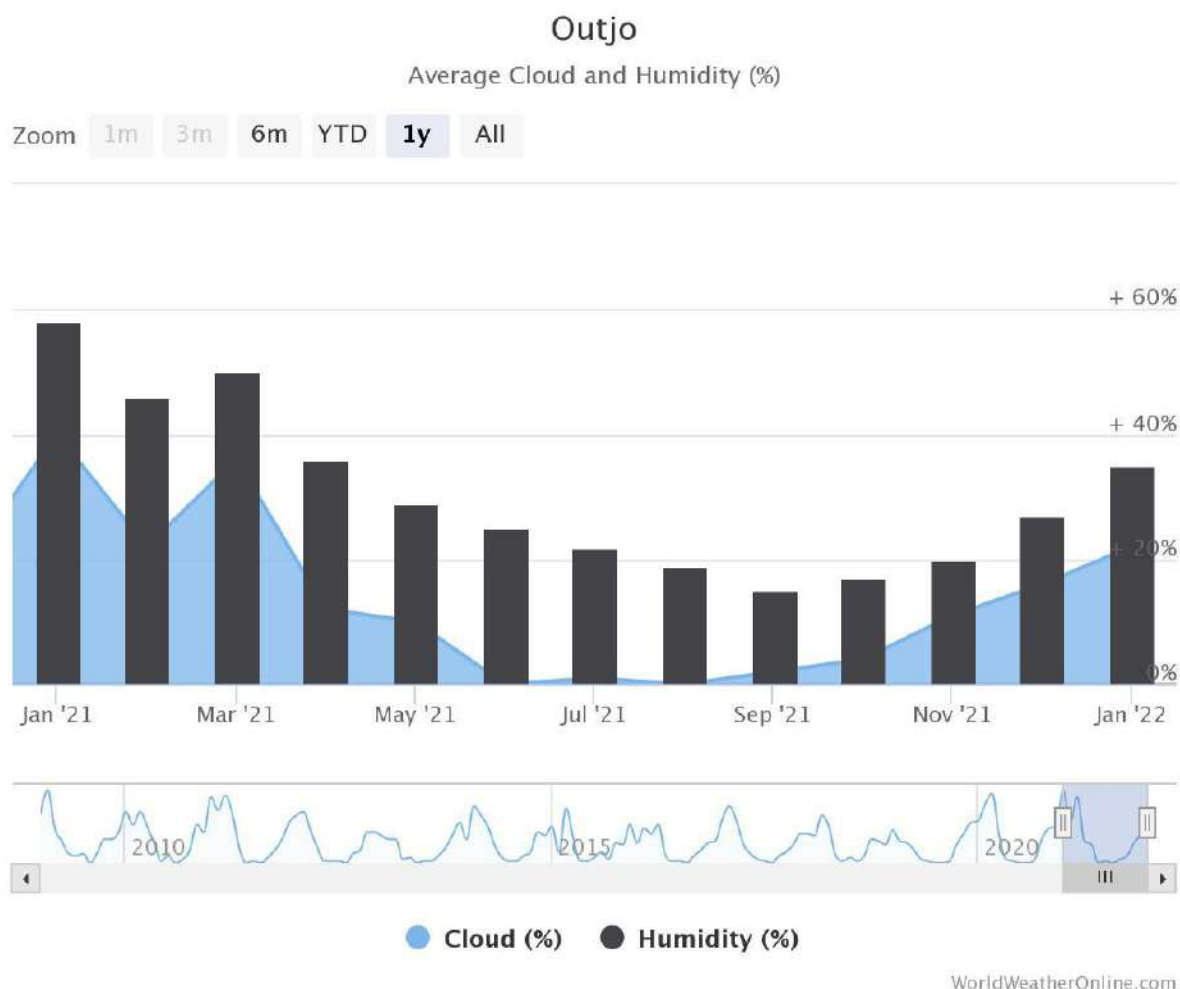


Figure 9 A graph showing the humidity patterns in Outjo, from www.worldweatheronline.com

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.

PM₁₀ describes all particulate matter in the atmosphere with a diameter equal to or less than 10 µm 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 µm and are mostly related to combustion. NO₂ and nitric oxide (NO) are formed simultaneously in combustion processes and other high temperature operations such as blast furnaces. Sources of SO₂ 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 15 AQI. The ground-level ozone (O₃) is about 15 µg/m³ which is excellent. The fine particle matter levels (PM_{2.5}) are about 9 µg/m. The particle matter (PM₁₀) is about 9 µg/m³. The nitrogen dioxide (NO₂), carbon monoxide (CO), and sulphur dioxide (SO₂) levels in the area are recorded to be 0 µg/m³.

4.3 Geology

4.3.1 Geological setting

The mineral licence is hosted by rocks within the Southern Central Zone of the Damara Orogen. This terrane comprises mid Proterozoic granitic basement inliers, overlain by metamorphosed late Proterozoic arkoses, shelf carbonates, turbidites and minor volcanic rocks that have been intruded by numerous granites and pegmatites.

Most of the project area is underlain by meta-sedimentary rocks of the Nosib Group meta-arkoses (Etusis Formation) or the stratigraphically younger Swakop Group marine carbonates and meta-turbidites comprising the Arandis Formation (biotite schist, minor quartz schist calc-silicate rock and amphibolite), the Uis Formation (dominantly dolomitic and calcitic marbles with minor calc-silicate) and the overlying Kuiseb Formation (schistose quartz feldspar mica meta-greywacke and meta-pelite). Glaciogenic mixtites of the Chuos and Ghaub Formations have limited exposure in the project area. The Swakop Group sediments have been intruded by a series of syn-, late-syn- and post-tectonic granite and pegmatite bodies.

The project is straddled by the magnetically defined regional scale Abbabis Lineaments. These lineaments are interpreted to be important tectono-stratigraphic boundaries associated with changes in sedimentology, structure and type of granitic intrusion observed in the Damara Orogen and have known association and control with uranium and other forms of mineralization. The structural setting of the Project area is complex with sediments deformed during poly-phase deformation and metamorphosed to upper greenschist-amphibolite facies.

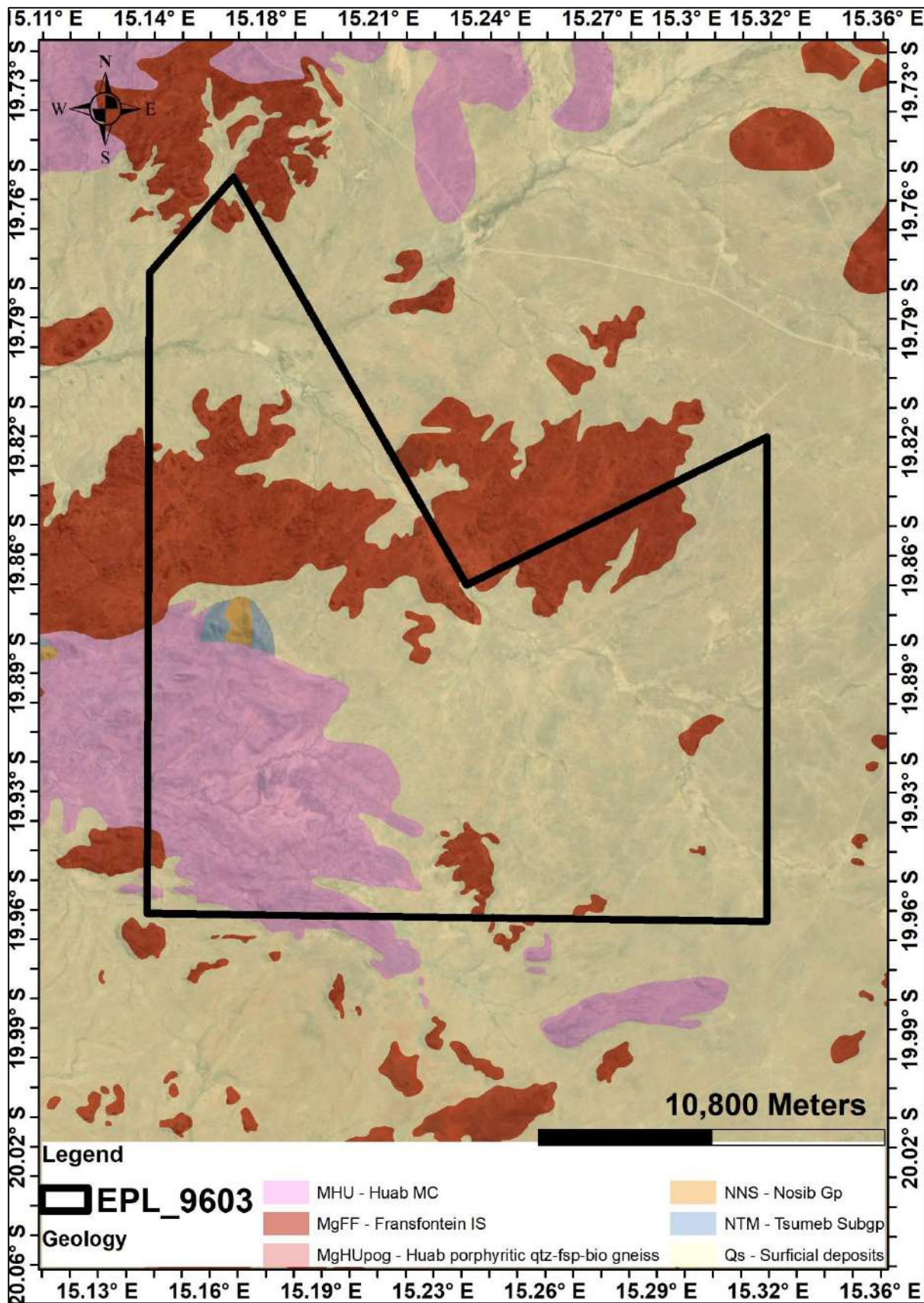
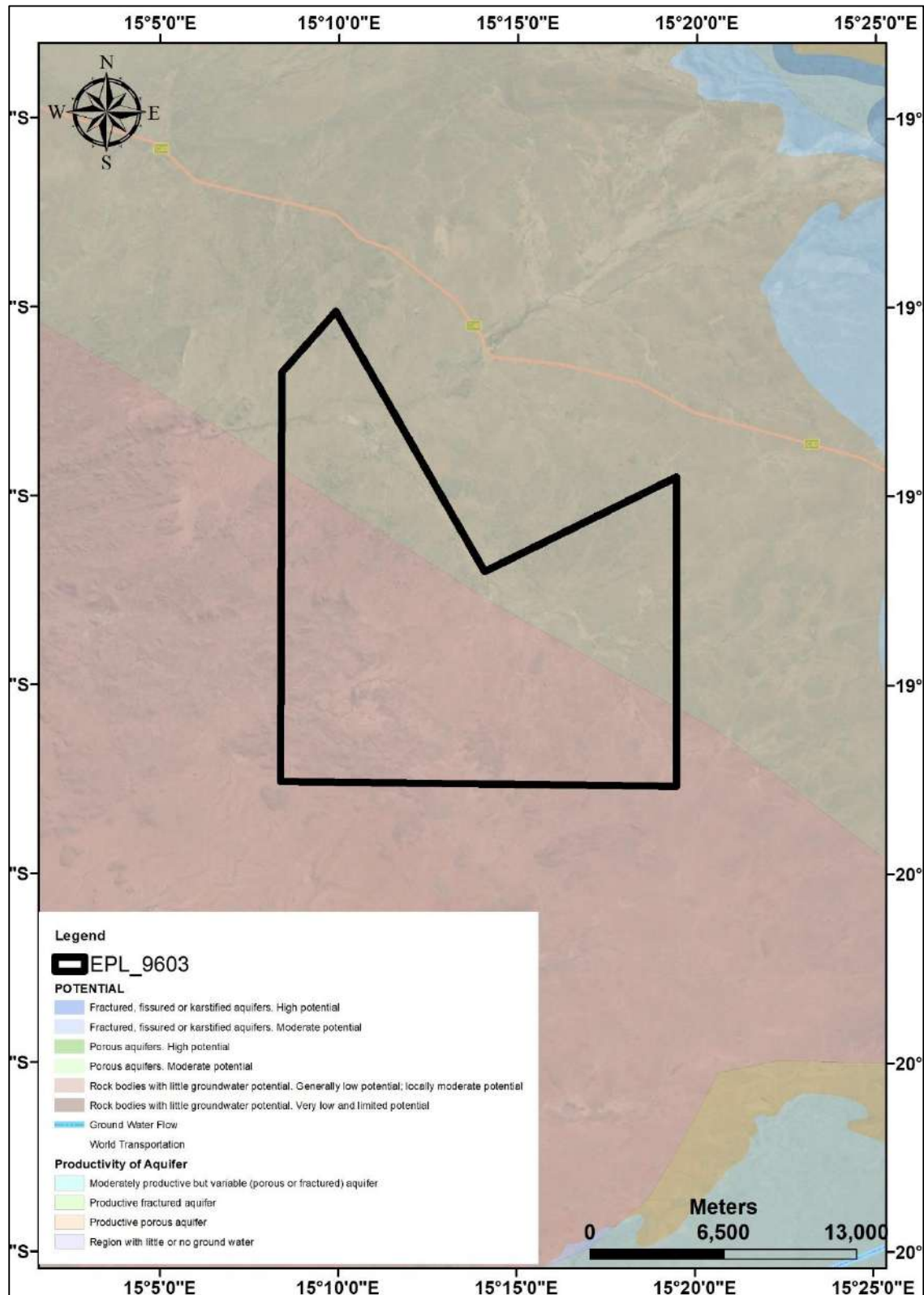


Figure 10 A geological map of the area

4.4 Hydrogeology and Water Resources

The area is underlain by rocks with little groundwater potential and aquifers with moderate groundwater potential.



4.5 Flora

Rainfall in the Kunene Region is usually both low and extremely variable which means that years of abundant rain often followed by extreme dry conditions (Mendelsohn, et al., 2002). In form, vegetation is generally sparse, with few trees and a thin variety of grass. Plant cover varies in relation to rainfall and so the eastern parts of Erongo have more grass and trees than the Western, coastal areas (Christian, 2005). The surrounding area is characterised by high botanical diversity. Based on the literature review, all the vegetation that are found within the vicinity of the area are of “medium” to “high” sensitivity against external conditions. The growing season is very short due to the semi-arid climate.

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 diverse 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
<i>Acacia erioloba</i>	Camel thorn	Protected
<i>Acacia mellifera</i>	Black thorn	Secure
<i>Acacia reficiens</i>	False umbrella thorn	Secure
<i>Acacia haematoxylon</i>	Grey camel thorn	Protected
<i>Acacia erubescens</i>	Blue thorn	Secure
<i>Acacia karroo</i>	Sweet thorn	Secure
<i>Acacia tortolis</i>	Umbrella thorn	Secure
<i>Acacia hereroensis</i>	False hook-thorn	Secure
<i>Commiphora tenuipetiolata</i>	White-stem corkwood	Secure
<i>Aloe littoralis</i>		Protected
<i>Ozoroa crassinervia</i>	Namibian resin tree	Near endemic, protected
<i>Boscia albitrunca</i>	Shepherd's tree	Protected
<i>Albizia anthelmintica</i>	Worm-bark false-thorn	Protected
<i>Ziziphus mucronata</i>	Buffalo-thorn	Protected
<i>Catophractes alexandri</i>	Trumpet thorn	Secure
<i>Combretum apiculatum</i>	Red bush willow	Secure
<i>Commiphora dinteri</i>		Endemic
<i>Commiphora glandulosa</i>	Tall common corkwood	Secure
<i>Commiphora glaucescens</i>	Blue-leaved corkwood	Nearendemic
<i>Croton gratissimus</i>	Lavender fever-berry	Secure
<i>Cyphostemma bainesii</i>		Endemic, protected

<i>Dichrostachys cinerea</i>	Sickle bush	Secure
<i>Diospyros lycioides</i>	Blue bush	Secure
<i>Dombeya rotundifolia</i>	Common wild pear	Endemic
<i>Ehretia alba</i>		Secure
<i>Elephantorrhiza suffruticosa</i>		Secure
<i>Euclea pseudobenus</i>	Ebony tree	Protected
<i>Euclea undulata</i>	Common guarri	Secure
<i>Euphorbia guerichiana</i>	Western woody milk bush	Secure
<i>Euphorbia virosa</i>		Secure
<i>Ficus cordata</i>	Namaqua fig	Protected
<i>Ficus ilicina</i>	Laurel fig	Secure
<i>Ficus sycomorus</i>	Common cluster fig	Protected
<i>Grewia bicolor</i>	White raisin	Secure
<i>Grewia flava</i>	Velvet raisin	Secure
<i>Grewia flavescens</i>	Sand paper raisin	Secure
<i>Gymnosporia senegalensis</i>	Red spike-thorn	Secure
<i>Ipomoea adenioides</i>		Secure
<i>Lycium bosciifolium</i>		Secure
<i>Lycium cinereum</i>		Secure
<i>Lycium eenii</i>		Secure
<i>Lycium hirsutum</i>		Secure
<i>Lycium villosum</i>		Secure
<i>Maerua juncea</i>		Secure
<i>Maerua schinzii</i>	Ringwood tree	Protected
<i>Manuleopsis dinteri</i>		Endemic
<i>Melianthus comosus</i>		Secure
<i>Obetia carruthersiana</i>		Near endemic
<i>Pechuel-Loeschea leubnitziae</i>		Secure
<i>Sterculia africana</i>	African star-chestnut	Protected
<i>Tarchonanthus camphoratus</i>		Secure
<i>Tetragonia schenckii</i>		Secure
<i>Vernonia cinerascens</i>		Secure
<i>Searsia (Rhus) ciliata</i>		Secure
<i>Searsia (Rhus) lancea</i>	Karree	Protected
<i>Searsia (Rhus) marlothii</i>		Secure

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 shrubs, 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
<i>Acacia erioloba</i>	Camel thorn
<i>Acacia haematoxylon</i>	Grey camel thorn
<i>Albizia anthelmintica</i>	Worm-bark false-thorn
<i>Boscia albitrunca</i>	Shepherd's tree
<i>Euclea pseudobenus</i>	Ebony tree
<i>Ficus cordata</i>	Namaqua fig
<i>Ficus sycomorus</i>	Common cluster fig
<i>Maerua schinzii</i>	Ringwood tree
<i>Ozoroa crassinervia</i>	Namibian resin tree
<i>Searsia (Rhus lancea)</i>	Karree
<i>Sterculia Africana</i>	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				
<i>Xenopus laevis</i>	COMMON PLATANNA	SECURE	ABUNDANTLY	(Daudin, 1802)
TOADS				
<i>Breviceps adpersus</i>	BUSHVELD RAIN FROG	SECURE	ABUNDANTLY	Peters, 1882
<i>Bufo dombensis</i>	DOMBE DWARF TOAD	ENDEMIC & INADEQUETLY KNOWN	ABUNDANTLY	Bocage, 1895
<i>Bufo poweri</i>	MOTTLED TOAD	SECURE	ABUNDANTLY	Hewitt, 1935
FOSSORIAL FROGS				
<i>Phrynomantis affinis</i>	SPOTTED RUBBER FROG	AMBIGUOUS (RARE?)	RARELY	(Boulenger, 1901)
<i>Phrynomantis bifasciatus</i>	BANDED RUBBER FROG	SECURE	ABUNDANTLY	(Smith, 1848)
SAND FROGS, BULLFROGS, RIDGED FROGS, CACOS, PUDDLE FROGS etc.				
<i>Cacosternum boettgeri</i>	COMMON CACO	SECURE	ABUNDANTLY	(Boulenger, 1882)
<i>Hildebrandtia ornata</i>	ORNATE FROG	SECURE	UNCOMMONLY	(Peters, 1878)
<i>Phrynobatrachus mababiensis</i>	MABABE PUDDLE FROG	SECURE	UNCOMMONLY	FitzSimons, 1932
<i>Phrynobatrachus natalensis</i>	SNORING PUDDLE FROG	SECURE	UNCOMMONLY	(A. Smith, 1849)
<i>Pyxicephalus adpersus</i>	GIANT BULLFROG	SECURE	ABUNDANTLY	Tschudi, 1838
<i>Tomopterna krugerensis</i>	KNOCKING SAND FROG	SECURE	RARELY	Passmore et al, 1975
<i>Tomopterna tandyi</i>	TANDY'S SAND FROG-	SECURE	ABUNDANTLY	Channing et al, 1996

TREE FROGS, REED FROGS & KASSINAS				
<i>Kassina senegalensis</i>	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 known 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
<i>Acinonyx jubatus</i>	Cheetah
<i>Antidorcas marsupialis</i>	Springbok
<i>Atelerix frontalis angolae</i>	Southern African Hedgehog
<i>Canis mesomelas</i>	Black-backed Jackal
<i>Caracal caracal</i>	Caracal
<i>Crocuta crocuta</i>	Spotted Hyena
<i>Cynictis penicillata</i>	Yellow Mongoose
<i>Equus zebra hartmannae</i>	Hartmann's Mountain Zebra
<i>Felis nigripes</i>	Black-footed Cat
<i>Felis silvestris/lybica</i>	African Wild Cat
<i>Galerella sanguinea</i>	Slender Mongoose
<i>Genetta genetta</i>	Small Spotted Genet
<i>Ictonyx striatus</i>	Striped Polecat
<i>Lepus capensis</i>	Cape Hare Secure

<i>Lepus saxatilis</i>	Scrub Hare
<i>Manis temminckii</i>	Ground Pangolin
<i>Mellivora capensis</i>	Honey Badger/Ratel
<i>Oreotragus oreotragus</i>	Klipspringer
<i>Oryx gazella</i>	Gemsbok
<i>Otocyon megalotis</i>	Bat-eared Fox
<i>Panthera pardus</i>	Leopard
<i>Parahyaena (Hyaena) brunnea</i>	Brown Hyena
<i>Phacochoerus africanus</i>	Common Warthog
<i>Proteles cristatus</i>	Aardwolf
<i>Raphicerus campestris</i>	Steenbok
<i>Suricata suricatta marjoriae</i>	Suricate
<i>Sylvicapra grimmia</i>	Common Duiker
<i>Tragelaphus strepsiceros</i>	Greater Kudu
<i>Vulpes chama</i>	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
<i>Psammobates Oculiferus</i>	Kalahari Tent Tortoise	Protected
<i>Python Natalis</i>	Southern African Python	Protected
<i>Geochelone Pardalis</i>	Leopard Tortoise	Protected
<i>Varanus Albigularis</i>	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 comparatively 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 species 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 Outjo

The Outjo Constituency is located in the South Eastern part of Kunene Region, bordering Kamanjab to the West, Otjiwarongo constituency to the South, Otavi Constituency to the East and Omuthiyagwiipundi constituency to the North. The total area size of Outjo Constituency is 7,466 square kilometers and has a population of 12,447, with a population density of 1.7 per square kilometer, making it the most populous constituency in the region. Sixty one percent (61%) of the population is aged between 15 – 59 years old. The constituency has a fairly high literacy rate of 78% and 65% of the population have already left school.

Outjo forms the entry point for consumer goods and services distributed throughout the region to towns such as Opuwo, Khorixas, Kamanjab and Ruacana to the north. These regional urban areas are connected by tarred roads, making transportation services one of the best in the country with low traffic flow and minimal vehicle accidents. According to SADCbiz.com, Outjo forms the communication and transport hub of the Kunene Region. It is serviced by rail and tarred road from Otjiwarongo and Usakos.

Outjo constituency has a 75% economically active population, were 66% are formally employed in the constituency and 35% are unemployed. 66% of the residents' main source of income is derived from wages and salaries, followed by 10% pensions and 9% cash remittances. About 89% of the households have access to safe water, 47% have no access to toilet facilities (lower than other constituencies in the region) and 48% use electricity for lighting.

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 9603. 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:	O	On-Site (the site and it's immediate surrounds)
	L	Local (Mineral exploration Area)
	R	Regional (Kunene 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.
	H	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

	M	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.
	H	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 Impact	Significance		Duration	Extent	Intensity	Probability
	NMM	MM				
Increased spread of HIV/AIDS	M	L	LD	N	M	LP
Increased influx of people to the area	L	L	SD	L	L	P
Increased informal settlement in the area	M	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	Significance		Duration	Extent	Intensity	Probability
	NMM	MM				
Impact						
Dust	L	L	SD	L	L	P
Noise	M	L	SD	L	M	D
Safety & Security	L	L	SD	O	L	P
Visual	L	L	MD	O	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 Outjo 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 Impact	Significance		Duration	Extent	Intensity	Probability
	NMM	MM				
Air Quality	M	L	LD	L	M	HP
Fire & Explosion Hazard	H	M	SD	O	M	LP
Generation of waste	M	L	LD	O	L	D
Health and Safety	H	M	MD	N	L	P
Fauna	M	L	MD	L	M	D
Vegetation	M	L	MD	L	M	D
Avifauna	M	L	MD	L	M	LP
Alien Invasive Plants	M	L	MD	L	M	P
Heritage	M	L	LD	O	H	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:

1. 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	<ul style="list-style-type: none"> • 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. 	<ul style="list-style-type: none"> • Contractor • Site Manager 	<ul style="list-style-type: none"> • Amount of dust produced. • Level of Landscaping carried out.
Noise pollution	<ul style="list-style-type: none"> • 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. 	<ul style="list-style-type: none"> • Contractor • Management 	Amount of noise
Solid waste	<ul style="list-style-type: none"> • 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. 	<ul style="list-style-type: none"> • Management 	Presence of well-Maintained receptacles and central collection point.

Oil leaks and spills	<ul style="list-style-type: none"> • 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. 	<ul style="list-style-type: none"> • Contractor 	No oil spills and leaks on the site
First aid	<ul style="list-style-type: none"> • A well-stocked first aid kit shall be maintained by qualified personnel 	<ul style="list-style-type: none"> • Management 	Contents of the first aid kit.
Visual	<ul style="list-style-type: none"> • Environmental considerations will be adhered to at all times before clearing roads, trenching and excavating. 	<ul style="list-style-type: none"> • Management 	<ul style="list-style-type: none"> • Employees will be trained on the importance of minimising visual impacts.
Archaeological Sites	<ul style="list-style-type: none"> • 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. 	<ul style="list-style-type: none"> • Management 	<ul style="list-style-type: none"> • Register of all archaeological sites identified.
Occupational Health and Safety	<ul style="list-style-type: none"> • 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. 	<ul style="list-style-type: none"> • Contractor • Management 	<ul style="list-style-type: none"> • Workers using Protective Equipment. • Presence of Well stocked First Aid Box. • Clean sanitary facilities.
Fauna	<ul style="list-style-type: none"> • 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. 	<ul style="list-style-type: none"> • Management 	<ul style="list-style-type: none"> • Regular monitoring of any unusual signs of animal habitat.
Alien Invasive Plants	<ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> • Management • Contractor 	<ul style="list-style-type: none"> • Regular monitoring of any unusual signs of alien species.
Loss of vegetation	<ul style="list-style-type: none"> • 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. 	<ul style="list-style-type: none"> • Contractor • Management 	<ul style="list-style-type: none"> • Warning signs on site • restored vegetation
Operational Phase			

Environmental/ Social Impact	Proposed mitigation measures	Responsibility	Monitoring plan
Noise pollution	<ul style="list-style-type: none"> • 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. 	<ul style="list-style-type: none"> • Contractor • Management 	<ul style="list-style-type: none"> • Amount of noise
Visual	<ul style="list-style-type: none"> • Environmental considerations will be adhered to at all times before clearing roads, trenching and excavating. 	<ul style="list-style-type: none"> • Management 	<ul style="list-style-type: none"> • Employees will be trained on the importance of minimising visual impacts.
Fauna	<ul style="list-style-type: none"> • 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. 	<ul style="list-style-type: none"> • Management 	<ul style="list-style-type: none"> • Regular monitoring of any unusual signs of animal habitat.
Alien Invasive Plants	<ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> • Management • Contractor 	<ul style="list-style-type: none"> • Regular monitoring of any unusual signs of alien species.
Loss of vegetation	<ul style="list-style-type: none"> • 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. 	<ul style="list-style-type: none"> • Contractor • Management 	<ul style="list-style-type: none"> • Warning signs on site • restored vegetation
Solid waste	<ul style="list-style-type: none"> • 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. 	<ul style="list-style-type: none"> • Contractor • Management 	<ul style="list-style-type: none"> • Amount of waste on Site • Presence of well-Maintained receptacles and central collection point.
Oil leaks and spills	<ul style="list-style-type: none"> • 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. 	<ul style="list-style-type: none"> • Contractor 	<ul style="list-style-type: none"> • No oil spills and leaks on the site.

Archaeological Sites	<ul style="list-style-type: none"> • 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. 	<ul style="list-style-type: none"> • Management 	<ul style="list-style-type: none"> • Update Register of all archaeological sites identified.
First aid	<ul style="list-style-type: none"> • A well-stocked first aid kit shall be maintained by qualified personnel 	<ul style="list-style-type: none"> • Management 	<ul style="list-style-type: none"> • Contents of the first aid kit.
Fire preparedness	<ul style="list-style-type: none"> • 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. 	<ul style="list-style-type: none"> • Management 	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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. 	<ul style="list-style-type: none"> • Management 	<ul style="list-style-type: none"> • Provide sanitary facilities. • Copies of Annual Audit
Decommissioning Phase			
Environmental/ Social Impact	Proposed mitigation measures	Responsibility	Monitoring plan/indicator
Noise & Air pollution	<ul style="list-style-type: none"> • 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. 	<ul style="list-style-type: none"> • Contractor • Management 	<ul style="list-style-type: none"> • Amount of noise
Disturbed Physical environment	<ul style="list-style-type: none"> • Undertake a complete environmental restoration programme and introducing appropriate vegetation 	<ul style="list-style-type: none"> • Management 	
Solid waste	<ul style="list-style-type: none"> • Solid waste should be collected by a contracted waste collection company • Excavation waste should be re-used or backfilled. 	<ul style="list-style-type: none"> • Contractor • Management 	<ul style="list-style-type: none"> • Amount of waste on Site. • Presence of well-maintained receptacles and central collection point.

Occupational Health and Safety	<ul style="list-style-type: none"> • 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. • Demarcate area under decommissioning. 	<ul style="list-style-type: none"> • Contractor 	<ul style="list-style-type: none"> • Workers using Protective Equipment. • Presence of a First Aid Box.
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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 is 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 three consecutive weeks as shown in Appendix B.

Known interested and affected parties were notified directly via mail and fax. Posters were placed at the office of the Regional Council office and at the site as well.

Interested and affected parties that were notified directly including farmers. 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:

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

Name	Position	Organization
Teofillus Nghitila	Executive Director	Ministry of Environment and Tourism
Timoteus Mufeti	Environmental Commissioner	Ministry of Environment and Tourism
Maria Amakali	Director: Water Resources Management	Ministry of Agriculture, Water and Land Reform
E. Shivolo	Mining Commissioner	Min. of M&E - Mining Commissioner

Registered IAP's and Summary of Issues Raised

The issues raised are shown in the appendix, under the public meeting section.

Name	Organization	email	Tel	Comments	Response

8. Conclusion

The scoping report is prepared for the Environmental Impact Assessment for mineral exploration on an area which is located about 88 km west of Outjo. 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

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

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

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

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

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

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

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

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

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

<i>Hirundo cucullata</i>	Greater Striped Swallow	Secure
<i>Hirundo fuligula</i>	Rock Martin	Secure
<i>Hirundo rustica</i>	European Swallow	Secure -
<i>Hirundo semirufa</i>	Redbreasted Swallow	Secure
<i>Lamprolornis australis</i>	Burchell's Starling	Secure
<i>Lamprolornis nitens</i>	Glossy Starling	Secure
<i>Laniarius atrococcineus</i>	Crimsonbreasted Shrike	Secure
<i>Lanius collaris</i>	Fiscal Shrike	Secure
<i>Lanius collurio</i>	Redbacked Shrike	Secure -
<i>Lanius minor</i>	Lesser Grey Shrike	Secure -
<i>Melaenornis infuscatus</i>	Chat Flycatcher	Secure
<i>Melaenornis mariquensis</i>	Marico Flycatcher	Secure
<i>Melierax canorus</i>	Pale Chanting Goshawk	Secure
<i>Merops apiaster</i>	European Bee-Eater	Secure -
<i>Merops hirundineus</i>	Swallowtailed Bee-Eater	Secure
<i>Micronisus gabar</i>	Gabar Goshawk	Secure
<i>Milvus migrans</i>	Black Kite	Secure -
<i>Milvus parasitus</i>	Yellowbilled Kite	Secure
<i>Mirafrapa passerina</i>	Monotonous Lark	Secure
<i>Monticola brevipes</i>	Shorttoed Rock Thrush	Secure
<i>Muscicapa striata</i>	Spotted Flycatcher	Secure -
<i>Nectarinia fusca</i>	Dusky Sunbird	Secure
<i>Nectarinia talatala</i>	Whitebellied Sunbird	Secure
<i>Nilaus afer</i>	Brubru	Secure
<i>Numida meleagris</i>	Helmeted Guinea fowl	Secure
<i>Oena capensis</i>	Namaqua Dove	Secure
<i>Onychognathus nabouroup</i>	Palewinged Starling	Secure
<i>Parisoma subcaeruleum</i>	Titbabbler	Secure
<i>Parus cinerascens</i>	Ashy Tit	Secure
<i>Passer diffusus</i>	Southern Grey-headed Sparrow	Secure
<i>Passer motitensis</i>	Great Sparrow	Secure
<i>Plocepasser mahali</i>	Whitebrowed Sparrowweaver	Secure
<i>Ploceus velatus</i>	Masked Weaver	Secure
<i>Polemaetus bellicosus</i>	Martial Eagle	Endangered
<i>Polihierax semitorquatus</i>	Pygmy Falcon	Secure
<i>Prinia flavicans</i>	Blackchested Prinia	Secure
<i>Psophocichla litsitsirupa</i>	Groundscraper Thrush	Secure
<i>Pterocles bicinctus</i>	Doublebanded Sandgrouse	Secure
<i>Pterocles namaqua</i>	Namaqua Sandgrouse	Secure
<i>Pycnonotus nigricans</i>	Redeyed Bulbul	Secure
<i>Pytilia melba</i>	Melba Finch	Secure
<i>Quelea quelea</i>	Redbilled Quelea	Secure
<i>Rhinopomastus cyanomelas</i>	Scimitar billed Woodhoopoe	Secure
<i>Rhinoptilus chalcopiterus</i>	Bronzewinged Courser	Secure
<i>Scopus umbretta</i>	Hamerkop	Secure
<i>Serinus atrogularis</i>	Blackthroated Canary	Secure
<i>Smutornis africanus</i>	Doublebanded Courser	Secure
<i>Sporopipes squamifrons</i>	Scalyfeathered Finch	Secure
<i>Streptopelia capicola</i>	Cape Turtle Dove	Secure
<i>Streptopelia senegalensis</i>	Laughing Dove	Secure
<i>Struthio camelus</i>	Ostrich	Secure
<i>Sylvietta rufescens</i>	Longbilled Crombec	Secure
<i>Tchagra australis</i>	Threestreaked Tchagra	Secure
<i>Terathopius ecaudatus</i>	Bateleur	Endangered
<i>Thripias namaquus</i>	Bearded Woodpecker	Secure
<i>Tockus erythrorhynchus</i>	Redbilled Hornbill	Secure
<i>Tockus leucomelas</i>	Southern Yellowbilled Hornbill	Secure
<i>Tockus nasutus</i>	Grey Hornbill	Secure
<i>Torgos tracheliotus</i>	Lappetfaced Vulture	Vulnerable
<i>Tricholaema leucomelas</i>	Pied Barbet	Secure
<i>Turdoides bicolor</i>	Pied Babbler	Secure
<i>Turtur chalcospilos</i>	Greenspotted Dove	Secure

<i>Upupa epops</i>	Hoopoe	Secure
<i>Uraeginthus angolensis</i>	Blue Waxbill	Secure
<i>Uraeginthus granatinus</i>	Violeteared Waxbill	Secure
<i>Urocolius indicus</i>	Redfaced Mousebird	Secure
<i>Vanellus armatus</i>	Blacksmith Plover	Secure
<i>Vanellus coronatus</i>	Crowned Plover	Secure
<i>Vanellus senegallus</i>	Wattled Plover	Secure
<i>Vidua regia</i>	Shafttailed Whydah	Secure
<i>Zosterops senegalensis</i>	Yellow White-Eye	Secure

Appendix B: Proof of Advertisements, Letters and Notices

Appendix of CV's

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Notice

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STANDARD NOTICE: THREE STOREY DWELLING UNIT AND COVERAGE APPLICATION

Take notice that the owner, SILAS NAOBEB intends applying to the Windhoek Municipal Council for the construction of a three-storey dwelling unit of Erf 904, Reminder Street, New Auasblich. The proposed construction will allow the owner to erect a three-storey dwelling unit. Should this application be successful, the number of vehicles for which parking must be provided on-site will be 3 car garage and 3 car parking. The owner's current intentions are to erect and use the building for residential purposes on Erf 904 Auasblich. Further take notice that the plan of the erf lies for inspection on the town planning notice board in the Customer Care Centre, Main Municipal Offices, Rev. Michael Scott Street, Windhoek. Further take notice that any person objecting to the proposed use of the land as set out above may lodge such objection together with the grounds thereof, with the City or with the applicant / consultant in writing within 14 days of the last publication of this notice. The last date for any objection is 24 February 2025. Dated at Windhoek this 10 February 2025. Name: SILAS NAOBEB Windhoek Contact details: 0811228944

NOTICE OF ENVIRONMENTAL SCOPING ASSESSMENT (ESA) FOR: FOR THE PROPOSED EXPLORATION ACTIVITIES ON THE EXCLUSIVE PROSPECTING LICENCE (EPL) NO. 10556, 10557, AND 10558.

Under the Environmental Management Act No. 7 of 2007 and its 2012 EIA Regulations, the proposed exploration activities on EPLs 10556, 10557 and 10558 require Environmental Clearance Certificates (ECCs) from the Department of Environmental Affairs and Forestry (DEAF) before commencement. The public is notified that applications for ECCs to allow for exploration activities on 10556 (northwest of Hermeringhausen), 10557(North of Aradis), and 10558(North east of Karibib), will be submitted to the Environmental Commissioner. The environmental scoping process will be carried out to identify potential positive and negative impacts of the proposed activities and to support the evaluation process for ECCs.

The main target commodity on EPLs: Base and Rare Metals, Industrial Minerals, Dimension Stone, Nuclear Fuels and Precious Metals

Proponents: Kayunil Investments (Pty) Ltd
Environmental Consultant: Excel Dynamic Solutions (Pty) Ltd
Public members are invited to register as Interested and Affected Parties to comment/raise concerns or receive further information on the Environmental Assessment process.
Public Consultation meeting details will be communicated with all the registered I&APs. Registration requests should be forwarded to Excel Dynamic Solutions (Pty) Ltd on the contact details below, before or on **28th February 2025.**
Contact: Excel Dynamic Solutions Pty Ltd office
Email: public@edsnamibia.com
Tel: + 264 61 259 530



NOTICE OF ENVIRONMENTAL SCOPING ASSESSMENT (ESA) FOR: FOR THE PROPOSED EXPLORATION ACTIVITIES ON THE EXCLUSIVE PROSPECTING LICENCE (EPL) No.10033 LOCATED ABOUT 13 KM SOUTH OF OUTJO IN THE KUNENE REGION, NAMIBIA.

Under the Environmental Management Act No. 7 of 2007 and its 2012 EIA Regulations, the proposed exploration activities on EPL 10033 require an Environmental Clearance Certificate (ECC) from the Department of Environmental Affairs and Forestry (DEAF) before commencement.

The public is notified that an ECC application will be submitted to the Environmental Commissioner.

Brief Project Description: The environmental scoping process will identify potential positive and negative impacts of the proposed activities on EPL 10033 located about 13 km South of the Outjo settlement in the Kunene region. The target commodities on the EPL are **Base & Rare Metals, Dimension Stone, Industrial Minerals, Precious Metals and Semi-Precious Metals.**

Proponent: Manschaft Mining and Energy cc

Environmental Consultant: Excel Dynamic Solutions (Pty) Ltd
Public members are invited to register as Interested and Affected Parties to comment/raise concerns or receive further information on the Environmental Assessment process.

Public Consultation meeting details will be communicated with all the registered I&APs. Registration requests should be forwarded to Excel Dynamic Solutions (Pty) Ltd on the contact details below, before or on **28 February 2025.**

Contact:
Excel Dynamic Solution
Email: public@edsnamibia.com
Tel: + 264 61 259 530



CALL FOR PUBLIC PARTICIPATION ENVIRONMENTAL IMPACT ASSESSMENT FOR MINERAL EXPLORATION ON EPL 9603

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 88 km west of Outjo. The proponent intends to explore for Copper. Exploration methods may include geological mapping, geophysical surveys, sampling and drilling.

Proponent: Lepidolite Investments CC

All interested and affected parties are hereby invited to register and submit their comments regarding the proposed project on or before **10/03/2025.**

Contact details for registration and further information:
Impala Environmental Consulting Mr. S. Andjamba
Email: public@impalac.com,
Tel: 0856630598



CALL FOR PUBLIC PARTICIPATION ENVIRONMENTAL IMPACT ASSESSMENT FOR MINERAL EXPLORATION ON EPL 9038

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 44 km west of Khorixas. The proponent intends to explore for Copper. Exploration methods may include geological mapping, geophysical surveys, sampling and drilling.

Proponent: Chihuahua Mining CC

All interested and affected parties are hereby invited to register and submit their comments regarding the proposed project on or before **10/03/2025.**

Contact details for registration and further information:
Impala Environmental Consulting Mr. S. Andjamba
Email: public@impalac.com,
Tel: 0856630598



CALL FOR PUBLIC PARTICIPATION ENVIRONMENTAL IMPACT ASSESSMENT FOR MINERAL EXPLORATION ON EPL 9326

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 14 km west of Windhoek. The proponent intends to explore for Copper. Exploration methods may include geological mapping, geophysical surveys, sampling and drilling.

Proponent: Koluti Investment CC

All interested and affected parties are hereby invited to register and submit their comments regarding the proposed project on or before **10/03/2025.**

Contact details for registration and further information:
Impala Environmental Consulting Mr. S. Andjamba
Email: public@impalac.com,
Tel: 0856630598



CALL FOR PUBLIC PARTICIPATION ENVIRONMENTAL IMPACT ASSESSMENT FOR MINERAL EXPLORATION ON EPL 10123

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 37 km East of Okahandja. The proponent intends to explore for Copper. Exploration methods may include geological mapping, geophysical surveys, sampling and drilling.

Proponent: Lepidolite Investments CC

All interested and affected parties are hereby invited to register and submit their comments regarding the proposed project on or before **10/03/2025.**

Contact details for registration and further information:
Impala Environmental Consulting Mr. S. Andjamba
Email: public@impalac.com,
Tel: 0856630598



CALL FOR PUBLIC PARTICIPATION ENVIRONMENTAL IMPACT ASSESSMENT FOR MINERAL EXPLORATION ON EPL 9023

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 34 km southeast of Kamajab. The proponent intends to explore for Copper. Exploration methods may include geological mapping, geophysical surveys, sampling and drilling.

Proponent: Chihuahua Mining CC

All interested and affected parties are hereby invited to register and submit their comments regarding the proposed project on or before **10/03/2025.**

Contact details for registration and further information:
Impala Environmental Consulting Mr. S. Andjamba
Email: public@impalac.com,
Tel: 0856630598



STANDARD NOTICE: THREE STOREY DWELLING UNIT AND COVERAGE APPLICATION

Take notice that the owner, Josephine Ndapunikwa Ndjombala intends applying to the Windhoek Municipal Council for the construction of a three-storey dwelling unit of Erf 827, Henties Street, Kleine Kuppe. The proposed construction will allow the owner to erect a three-storey dwelling unit. Should this application be successful, the number of vehicles for which parking must be provided on-site will be 3 parking. The owner's current intentions are to erect and use the building for residential purposes on Erf 827 Kleine Kuppe. Further take notice that the plan of the erf lies for inspection on the town planning notice board in the Customer Care Centre, Main Municipal Offices, Rev. Michael Scott Street, Windhoek. Further take notice that any person objecting to the proposed use of the land as set out above may lodge such objection together with the grounds thereof, with the City or with the applicant / consultant in writing within 14 days of the last publication of this notice. The last date for any objection is 14 September 2024. Dated at Windhoek this **30 August 2024.** Name: **Josephine Ndapunikwa Ndjombala** P.O. Box 35368 Windhoek Contact details: **0812771160**

Employment

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 - Follow up on business opportunities, assist in pre-sales project implementation, and collaborate with local teams to meet KPIs.
 - Lead product access compliance management in your assigned region.
 - Conduct product training, explore customer needs and challenges, and work with sales staff to complete distributor product training.
 - Manage products and coordinate with R&D and marketing departments to release overseas products and related documentation.
 - Collaborate with the local sales team to provide necessary support.

- Requirements:**
- Bachelor's degree or higher in Computer Science, Electronics, or Communication.
 - Fluency in English (listening, speaking, reading, and writing).
 - Over 2 years of technical support experience, preferably in the security industry with knowledge of network technology.
 - Strong communication, service orientation, and documentation skills. Detail-oriented and able to handle challenging tasks.
 - Willingness to travel frequently to overseas regions.

How to Apply: Submit your CV by 21 October 2024 to Tracey Kiniti at: legal@myworkpay.com Don't miss this opportunity to join a dynamic team and contribute to international projects!



Happy... Springbok coach Rassie Erasmus. Photo: SA Rugby

Erasmus: Rugby is in great shape

SPRINGBOK coach Rassie Erasmus believes that rugby's entertainment value is already high, despite attempts to change the laws.

Much debate has been around World Rugby's attempts to increase ball-in-play time, which the powers that be believe will increase its viewership.

Laws such as taking away the scrum option from a free-kick and bringing in shot clocks at the set-piece are World Rugby's attempts at speeding up play.

After watching England's riveting 26-25 win over France in the Six Nations on Saturday, Erasmus took to social media to share his excitement.

"Eng v France had 83 kicks in play, 15 scrums and only 36min BIP, yet it

was one of the more exciting, games the 6 nations had in a while, tweeted the double World Cup-winning coach.

"I don't think the shape of the game can be judged always on statistics. If you did not watch the game, most will say those numbers won't create excitement. Rugby is in a great shape at the moment in my opinion! Lekka."

Former international referee Nigel Owens agreed with the coach. "I agree," said Owens in the comments.

"I've always said that high BIP time does not make a rugby game better, as you have rightly pointed out,"

"Too much tinkering with the laws and an obsession to let the game flow at all costs will take away from the game, not enhance it. The proof is in the pudding." -SABCSPORT



Scheduling change... South African marathon champion Elroy Gelant. Photo: BusinessLive

Gelant to surrender SA national marathon title

South African marathon champion Elroy Gelant has confirmed to *SABC Sport* that he will not defend his title this year due to the scheduling change.

The 38-year-old clinched victory at the Durban International Marathon last year, setting a new course record as part of the Athletics South Africa Championships.

However, ASA have moved the national marathon championships forward by two months, instead incorporating them into the Cape Peninsula Marathon, which is scheduled for Sunday, way ahead of Gelant's preparation schedule.

"I can confirm that I will not be defending my title at this year's ASA Marathon Championships in Cape Town. I won't be competing because it's a bit too soon for me," he told the national broadcaster.

"After last year's demanding schedule, I needed time off to recover.

Taking that break meant I didn't have enough time to properly prepare for the event." This confirms that there will be new champions in both the men's and female marathon category, after Cian Oldknow told *SABC Sport* last week that she will also not be competing in the marathon due to the timing of the race.

Gelant, who also won the national half-marathon title in 2024, will only begin his road-racing season in April, starting with the Absa Run Your City Gqeberha 10kilometre (km), followed by a 42.2km marathon in Rotterdam, Netherlands.

"My focus is on a marathon in Europe this April, where I aim to achieve the qualifying time for the World Championships in Tokyo, Japan, this September. My goal is to run under 2 hours and 7 minutes, which would be a satisfying result," he said. -SABCSPORT

CLASSIFIEDS

CALL FOR PUBLIC PARTICIPATION
ENVIRONMENTAL IMPACT ASSESSMENT FOR
MINERAL EXPLORATION ON EPL 10123

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 37 km East of Okahandja. The proponent intends to explore for Copper. Exploration methods may include geological mapping, geophysical surveys, sampling and drilling.

Proponent: Lepidolite Investments CC

All interested and affected parties are hereby invited to register and submit their comments regarding the proposed project on or before **10/03/2025**. Contact details for registration and further information:

Impala Environmental Consulting

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



CALL FOR PUBLIC PARTICIPATION
ENVIRONMENTAL IMPACT ASSESSMENT FOR
MINERAL EXPLORATION ON EPL 9023

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 34 km southeast of Kamajab. The proponent intends to explore for Copper. Exploration methods may include geological mapping, geophysical surveys, sampling and drilling.

Proponent: Chihuahua Mining CC

All interested and affected parties are hereby invited to register and submit their comments regarding the proposed project on or before **10/03/2025**. Contact details for registration and further information:

Impala Environmental Consulting

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



CALL FOR PUBLIC PARTICIPATION
ENVIRONMENTAL IMPACT ASSESSMENT FOR
MINERAL EXPLORATION ON EPL 9326

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 14 km west of Windhoek. The proponent intends to explore for Copper. Exploration methods may include geological mapping, geophysical surveys, sampling and drilling.

Proponent: KOLUTI INVESTMENT CC

All interested and affected parties are hereby invited to register and submit their comments regarding the proposed project on or before **10/03/2025**. Contact details for registration and further information:

Impala Environmental Consulting

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



CALL FOR PUBLIC PARTICIPATION
ENVIRONMENTAL IMPACT ASSESSMENT FOR
MINERAL EXPLORATION ON EPL 9038

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 44 km west of Khorixas. The proponent intends to explore for Copper. Exploration methods may include geological mapping, geophysical surveys, sampling and drilling.

Proponent: Chihuahua Mining CC

All interested and affected parties are hereby invited to register and submit their comments regarding the proposed project on or before **10/03/2025**. Contact details for registration and further information:

Impala Environmental Consulting

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



CALL FOR PUBLIC PARTICIPATION
ENVIRONMENTAL IMPACT ASSESSMENT FOR
MINERAL EXPLORATION ON EPL 9603

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 88 km west of Outjo. The proponent intends to explore for Copper. Exploration methods may include geological mapping, geophysical surveys, sampling and drilling.

Proponent: Lepidolite Investments CC

All interested and affected parties are hereby invited to register and submit their comments regarding the proposed project on or before **10/03/2025**. Contact details for registration and further information:

Impala Environmental Consulting

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



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PUBLIC NOTICE: A CALL FOR PARTICIPATION & COMMENTS SUBMISSION
ENVIRONMENTAL IMPACT ASSESSMENT (EIA) STUDY FOR THE PROPOSED
EXPLORATION ACTIVITIES ON EXCLUSIVE PROSPECTING LICENSES (EPLs)
NO. 9885 & 9985 NEAR ARANDIS TOWN IN THE ERONGO REGION

The public is notified that the application for an Environmental Clearance Certificate (ECC) will be submitted to the Environmental Commissioner as required under the Environmental Management Act No. 7 of 2007 and its 2012 EIA Regulations. The proposed prospecting and exploration work on the EPLs is a listed activity in the EIA Regulations that cannot be undertaken without an ECC, subject to an EIA Study, approval of the EIA Scoping Report, and an Environmental Management Plan (EMP).

The Proponent: Tarah Hainana

Project Nature and Location: Upon issuance of the ECCs and EPL certificates (exploration rights) and obtaining all relevant documents (agreements) from land custodians (local Traditional Authority), key land users (#Gaingu Conservancy), the Proponent will plan for and commence with prospecting and exploration of Nuclear Fuel Minerals on the EPLs. EPL-9885 covers an area of 23,073.1506 hectares (Ha) whereas EPL-9985 covers 19,978.5782Ha. EPL-9985 is about 20km northeast of Arandis and EPL-9885 is about 40km further northeast of Arandis and stretches towards Grootspitskop (Spitzkoppe) in the Erongo Region. Both EPLs are within the #Gaingu Conservancy. This EIA Study is for exploration activities ONLY, not mining, because mining cannot be done on EPLs. This means, that if exploration yields economically feasible results, mining licenses would be applied for after exploration, of which different EIA Studies would be conducted to apply for mining licenses, i.e., to convert EPLs into mining licenses at a later stage.

Environmental Assessment Practitioner: Serja Hydrogeo-Environmental Consultants CC

The public is therefore invited to register as Interested and Affected Parties (I&APs) and submit comments and or receive further information on the EIA process. **The deadline for registration as I&APs and submission of comments, issues, or concerns is Friday, 21 February 2025** to the contact details provided below:

Contact Person: Ms. Fredrika Shagama

Mobile No.: +264 (0) 81 749 9223 in writing, i.e. SMS or WhatsApp

Email: eias.public@serjaconsultants.com



PUBLIC NOTICE: A CALL FOR PARTICIPATION & COMMENTS SUBMISSION
ENVIRONMENTAL IMPACT ASSESSMENT (EIA) STUDY FOR THE PROPOSED
EXPLORATION ACTIVITIES ON EXCLUSIVE PROSPECTING LICENSE (EPL) NO.
9488 NEAR UIS SETTLEMENT IN THE ERONGO REGION

The public is notified that the application for an Environmental Clearance Certificate (ECC) will be submitted to the Environmental Commissioner as required under the Environmental Management Act No. 7 of 2007 and its 2012 EIA Regulations. The proposed prospecting and exploration work on EPL-9488 is a listed activity in the EIA Regulations that cannot be undertaken without an ECC, subject to an EIA Study, approval of the EIA Scoping Report, and Environmental Management Plan (EMP).

The Proponent: Tarah Hainana

Project Nature and Location: Upon issuance of the ECC and EPL certificate (exploration rights) and obtaining all relevant documents (agreements) from land custodians (local Traditional Authority) and key land user (Tsiseb Conservancy), the Proponent will plan for and commence with prospecting and exploration of mineral commodities on the EPL. The EPL covers an area of 1,405.8228 hectares (Ha) and is located about 25km southeast of Uis Settlement and within the Tsiseb Conservancy in the Erongo Region. It should be noted that this EIA Study is for exploration activities ONLY, not mining because mining cannot be done on an EPL. This means if exploration yields economically feasible results, a mining license would need to be applied for after exploration and a different EIA Study would be conducted to apply for a mining license, i.e., to convert the EPL into a mining license at a later stage.

Environmental Assessment Practitioner: Serja Hydrogeo-Environmental Consultants CC

The public is therefore invited to register as Interested and Affected Parties (I&APs) and submit comments and or receive further information on the EIA process. **The deadline for registration as I&APs and submission of comments, issues, or concerns is Friday, 21 February 2025** to the contact details provided below:

Contact Person: Ms. Fredrika Shagama

Mobile No.: +264 (0) 81 749 9223 in writing, i.e. SMS or WhatsApp

Email: eias.public@serjaconsultants.com



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CALL FOR PUBLIC PARTICIPATION

ENVIRONMENTAL IMPACT ASSESSMENT FOR MINERAL EXPLORATION ON EPL 10123

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 37 km East of Okahandja. The proponent intends to explore for Copper. Exploration methods may include geological mapping, geophysical surveys, sampling and drilling.

Proponent: Lepidolite Investments CC

All interested and affected parties are hereby invited to register and submit their comments regarding the proposed project on or before **10/03/2025**. Contact details for registration and further information:

Impala Environmental Consulting

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



CALL FOR PUBLIC PARTICIPATION

ENVIRONMENTAL IMPACT ASSESSMENT FOR MINERAL EXPLORATION ON EPL 9023

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 34 km southeast of Kamajab. The proponent intends to explore for Copper. Exploration methods may include geological mapping, geophysical surveys, sampling and drilling.

Proponent: Chihuahua Mining CC

All interested and affected parties are hereby invited to register and submit their comments regarding the proposed project on or before **10/03/2025**. Contact details for registration and further information:

Impala Environmental Consulting

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



CALL FOR PUBLIC PARTICIPATION

ENVIRONMENTAL IMPACT ASSESSMENT FOR MINERAL EXPLORATION ON EPL 9326

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 14 km west of Windhoek. The proponent intends to explore for Copper. Exploration methods may include geological mapping, geophysical surveys, sampling and drilling.

Proponent: KOLUTI INVESTMENT CC

All interested and affected parties are hereby invited to register and submit their comments regarding the proposed project on or before **10/03/2025**. Contact details for registration and further information:

Impala Environmental Consulting

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



CALL FOR PUBLIC PARTICIPATION

ENVIRONMENTAL IMPACT ASSESSMENT FOR MINERAL EXPLORATION ON EPL 9038

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 44 km west of Khorixas. The proponent intends to explore for Copper. Exploration methods may include geological mapping, geophysical surveys, sampling and drilling.

Proponent: Chihuahua Mining CC

All interested and affected parties are hereby invited to register and submit their comments regarding the proposed project on or before **10/03/2025**. Contact details for registration and further information:

Impala Environmental Consulting

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



CALL FOR PUBLIC PARTICIPATION

ENVIRONMENTAL IMPACT ASSESSMENT FOR MINERAL EXPLORATION ON EPL 9603

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 88 km west of Outjo. The proponent intends to explore for Copper. Exploration methods may include geological mapping, geophysical surveys, sampling and drilling.

Proponent: Lepidolite Investments CC

All interested and affected parties are hereby invited to register and submit their comments regarding the proposed project on or before **10/03/2025**. Contact details for registration and further information:

Impala Environmental Consulting

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



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PUBLIC NOTICE: A CALL FOR PARTICIPATION & COMMENTS SUBMISSION

ENVIRONMENTAL IMPACT ASSESSMENT (EIA) STUDY FOR THE PROPOSED EXPLORATION ACTIVITIES ON EXCLUSIVE PROSPECTING LICENSES (EPLs) NO. 9885 & 9985 NEAR ARANDIS TOWN IN THE ERONGO REGION

The public is notified that the application for an Environmental Clearance Certificate (ECC) will be submitted to the Environmental Commissioner as required under the Environmental Management Act No. 7 of 2007 and its 2012 EIA Regulations. The proposed prospecting and exploration work on the EPLs is a listed activity in the EIA Regulations that cannot be undertaken without an ECC, subject to an EIA Study, approval of the EIA Scoping Report, and an Environmental Management Plan (EMP).

The Proponent: Tarah Hainana

Project Nature and Location: Upon issuance of the ECCs and EPL certificates (exploration rights) and obtaining all relevant documents (agreements) from land custodians (local Traditional Authority), key land users (#Gaingu Conservancy), the Proponent will plan for and commence with prospecting and exploration of Nuclear Fuel Minerals on the EPLs. EPL-9885 covers an area of 23,073.1506 hectares (Ha) whereas EPL-9985 covers 19,978.5782Ha. EPL-9985 is about 20km northeast of Arandis and EPL-9885 is about 40km further northeast of Arandis and stretches towards Grootspitskop (Spitzkoppe) in the Erongo Region. Both EPLs are within the #Gaingu Conservancy. This EIA Study is for exploration activities ONLY, not mining, because mining cannot be done on EPLs. This means, that if exploration yields economically feasible results, mining licenses would be applied for after exploration, of which different EIA Studies would be conducted to apply for mining licenses, i.e., to convert EPLs into mining licenses at a later stage.

Environmental Assessment Practitioner: Serja Hydrogeo-Environmental Consultants CC

The public is therefore invited to register as Interested and Affected Parties (I&APs) and submit comments and or receive further information on the EIA process. **The deadline for registration as I&APs and submission of comments, issues, or concerns is Friday, 21 February 2025** to the contact details provided below:

Contact Person: Ms. Fredrika Shagama

Mobile No.: +264 (0) 81 749 9223 in writing, i.e. SMS or WhatsApp

Email: eias.public@serjaconsultants.com



PUBLIC NOTICE: A CALL FOR PARTICIPATION & COMMENTS SUBMISSION

ENVIRONMENTAL IMPACT ASSESSMENT (EIA) STUDY FOR THE PROPOSED EXPLORATION ACTIVITIES ON EXCLUSIVE PROSPECTING LICENSE (EPL) NO. 9488 NEAR UIS SETTLEMENT IN THE ERONGO REGION

The public is notified that the application for an Environmental Clearance Certificate (ECC) will be submitted to the Environmental Commissioner as required under the Environmental Management Act No. 7 of 2007 and its 2012 EIA Regulations. The proposed prospecting and exploration work on EPL-9488 is a listed activity in the EIA Regulations that cannot be undertaken without an ECC, subject to an EIA Study, approval of the EIA Scoping Report, and Environmental Management Plan (EMP).

The Proponent: Tarah Hainana

Project Nature and Location: Upon issuance of the ECC and EPL certificate (exploration rights) and obtaining all relevant documents (agreements) from land custodians (local Traditional Authority) and key land user (Tsiseb Conservancy), the Proponent will plan for and commence with prospecting and exploration of mineral commodities on the EPL. The EPL covers an area of 1,405.8228 hectares (Ha) and is located about 25km southeast of Uis Settlement and within the Tsiseb Conservancy in the Erongo Region. It should be noted that this EIA Study is for exploration activities ONLY, not mining because mining cannot be done on an EPL. This means if exploration yields economically feasible results, a mining license would need to be applied for after exploration and a different EIA Study would be conducted to apply for a mining license, i.e., to convert the EPL into a mining license at a later stage.

Environmental Assessment Practitioner: Serja Hydrogeo-Environmental Consultants CC

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Contact Person: Ms. Fredrika Shagama

Mobile No.: +264 (0) 81 749 9223 in writing, i.e. SMS or WhatsApp

Email: eias.public@serjaconsultants.com



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Notice

Legal Notice

NOTICE OF ENVIRONMENTAL SCOPING ASSESSMENTS (ESA) FOR THE VARIOUS REHOBOTH TOWN COUNCIL PROJECTS, IN REHOBOTH, IN THE HARDAP REGION.

Under the Environmental Management Act No. 7 of 2007 and its 2012 Environmental Impact Assessment (EIA) Regulations, the public is hereby notified that applications for Environmental Clearance Certificates (ECCs) for the proposed projects below will be submitted to the Environmental Commissioner at the Department of Environmental Affairs and Forestry (DEAF).

Project Types

- Sand Mining
- Establishment of the pounding system
- Establishment of new dumping site
- Establishment of Acacia

Proponent: Rehoboth Town Council
Environmental Consultant: Excel Dynamic Solutions (Pty) Ltd

All interested and Affected Parties (I&APs) are hereby invited to register and submit comments in writing before or on 21st February 2025. Registration and Background Information Documents (BID) for the proposed projects can be requested from the email address below. The public consultation dates will be communicated with the registered I&APs.

Contact: Excel Dynamic Solutions (Pty) Ltd head office
Email: public@edsnamibia.com
Tel: + 264 (0) 61 259 530



CALL FOR PUBLIC PARTICIPATION ENVIRONMENTAL IMPACT ASSESSMENT FOR MINERAL EXPLORATION ON EPL 9603

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 88 km west of Outjo. The proponent intends to explore for Copper. Exploration methods may include geological mapping, geophysical surveys, sampling and drilling.

Proponent: Lepidolite Investments CCAI
All interested and affected parties are hereby invited to register and submit their comments regarding the proposed project on or before **10/03/2025**. 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 LICENCE (EPL) No. 9989 LOCATED WEST OF REHOBOTH, IN KHOMAS REGION

Under the Environmental Management Act No. 7 of 2007 and its 2012 EIA Regulations, the proposed exploration activities on EPL 9989 require an Environmental Clearance Certificate (ECC) from the Department of Environmental Affairs and Forestry (DEAF) before commencement. The public is notified that an application for ECC to allow for exploration activities on EPL 9989 will be submitted to the Environmental Commissioner. The environmental scoping process will be carried out to identify potential positive and negative impacts of the proposed activities and support ECC's evaluation process.

The main target commodity on EPL: Base and Rare Metals, Dimension Stones, Industrial Minerals, Precious Stones, and Semi-Precious Stones
Proponents: Sanai Investment cc
Environmental Consultant: Excel Dynamic Solutions (Pty) Ltd
Public members are invited to register as Interested and Affected Parties to comment/raise concerns or receive further information on the Environmental Assessment process.

Public Consultation meeting details will be communicated with all the registered I&APs.

Registration requests should be forwarded to Excel Dynamic Solutions (Pty) Ltd on the contact details below, before or on **21 February 2025**.
Contact: Excel Dynamic Solutions Pty Ltd office, **Email:** public@edsnamibia.com
Tel: + 264 61 259 530



CALL FOR PUBLIC PARTICIPATION ENVIRONMENTAL IMPACT ASSESSMENT FOR MINERAL EXPLORATION ON EPL 9023

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 34 km southeast of Kamajab. The proponent intends to explore for Copper. Exploration methods may include geological mapping, geophysical surveys, sampling and drilling.

Proponent: Chihuahua Mining CC
All interested and affected parties are hereby invited to register and submit their comments regarding the proposed project on or before **10/03/2025**. Contact details for registration and further information: **Impala Environmental Consulting Mr. S. Andjamba**
Email: public@impalac.com, **Tel:** 0856630598



RUNDU PLANNING SCHEME

Consent on: Erf no: 305
Township/Area: Rundu Safari
In terms of the Rundu Planning Scheme, notice is hereby given that we, the undersigned, have applied to the town council of Rundu for permission to erect/establish on the site flats/rooms for accommodation. Plans may be inspected, or particulars of this application may be obtained at town planning, Erf 1212, room F-7, Maria Mwenegere Road. Any person having any objection to the approval of this application must lodge such objection together with grounds thereof, with the Town Planning Officer. Town planning and urban development [Rundu Town Council] Private Bag 2128 Rundu and the applicant, in writing, not later than 24 February 2025

Name of Applicant: Regina Kasiku Macai
Postal Address: P O Box 1782 Rundu
Email: mac.willa40@gmail.com
Cell: 0813805200



CALL FOR PUBLIC PARTICIPATION ENVIRONMENTAL IMPACT ASSESSMENT FOR MINERAL EXPLORATION ON EPL 9038

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 44 km west of Khorixas. The proponent intends to explore for Copper. Exploration methods may include geological mapping, geophysical surveys, sampling and drilling.
Proponent: Chihuahua Mining CC
All interested and affected parties are hereby invited to register and submit their comments regarding the proposed project on or before **10/03/2025**. Contact details for registration and further information: **Impala Environmental Consulting Mr. S. Andjamba**
Email: public@impalac.com, **Tel:** 0856630598



CALL FOR PUBLIC PARTICIPATION ENVIRONMENTAL IMPACT ASSESSMENT FOR MINERAL EXPLORATION ON EPL 9326

ce 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 14 km west of Windhoek. The proponent intends to explore for Copper. Exploration methods may include geological mapping, geophysical surveys, sampling and drilling.

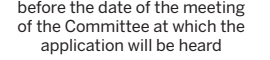
Proponent: KOLUTI INVESTMENT CC
All interested and affected parties are hereby invited to register and submit their comments regarding the proposed project on or before **10/03/2025**. Contact details for registration and further information: **Impala Environmental Consulting Mr. S. Andjamba**
Email: public@impalac.com, **Tel:** 0856630598



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: **KHOMAS**

- Name and postal address of applicant,
MILDRED FORD
PO BOX 50060 WINDHOEK
- Name of business or proposed business to which applicant relates:
MILL'S TRADING ENTERPRISES CC
- Address/Location of premises to which Application relates:
22 AUGUST – GOTZ STR, WINDHOEK-NORTH
- Nature and details of application:
SPECIAL LIQUOR LICENSE
- Clerk of the court with whom Application will be lodged:
WINDHOEK MAGISTRATE'S COURT
- Date on which application will be Lodged:
26 FEBRUARY 2025
- Date of meeting of Committee at which application will be heard:
09 APRIL 2025

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



IN THE HIGH COURT OF NAMIBIA HELD AT OSHAKATI Case Number: HC-NLD-CIV-ACT-CON-2023/00162

DEVELOPMENT BANK OF NAMIBIA EXECUTION CREDITOR and KAPEWASHA GENERAL TRADING CLOSE CORPORATION 1ST EXECUTION DEBTOR DAVID MWANHEKOTO 2ND EXECUTION DEBTOR NOTICE OF SALE

In pursuance of Judgement granted on **3rd of August 2023** and Writ of Execution dated **2nd November 2023**, the following goods will be sold in execution on **27th day of February 2025** at **12H00** at, **Advanced Refrigeration, Main Road, Oshakati, Republic of Namibia.**

GOODS: 1X COMPUTER AND PRINTER, 1X OFFICE TABLE + 4 CHAIRS, 1X TILL, 1X NOTE COUNTING MACHINE, 1X LAPTOP COMPUTER, 1X PRINTER, 1X OFFICE TABLE + 1X CHAIR, 30X POULTRY FOOD, 15X COW LICK, 20X 50KG ENERFEED, 10X 50KG BEEFPRO 14, 15KG 50KG RAM-LAM EWEPELLETS, 8X 50KG BREKER 12, 30X BALES OF GRASS
TERMS OF SALE: VOETSTOOTS AND CASH TO THE HIGHEST BIDDER

Dated at **ONGWEDIVA** on this **05th day of FEBRUARY 2025**

PER: JACOBS AMUPOLO LAWYERS & CONVEYANCERS SHOP F23-25, MAROELA MALL ONGWEDIVA

TO: THE REGISTRAR HIGH COURT NORTHERN LOCAL DIVISION OSHAKATI AND TO: THE NAMIBIAN NEWSPAPER NEW ERA NEWSPAPER

CALL FOR PUBLIC PARTICIPATION ENVIRONMENTAL IMPACT ASSESSMENT FOR MINERAL EXPLORATION ON EPL 10123

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 37 km East of Okahandja. The proponent intends to explore for Copper. Exploration methods may include geological mapping, geophysical surveys, sampling and drilling.

Proponent: Lepidolite Investments CC
All interested and affected parties are hereby invited to register and submit their comments regarding the proposed project on or before **10/03/2025**. Contact details for registration and further information: **Impala Environmental Consulting Mr. S. Andjamba**
Email: public@impalac.com, **Tel:** 0856630598



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PUBLIC NOTICE

Please take note that **Kamau Town Planning and Development Specialists and Environmental Consultants** has been appointed by the owner of **Erf 8304, Kuisebmond Extension 9, Walvis Bay**, to apply to the Municipality of Walvis Bay, the Urban and Regional Planning Board, and to the Environmental Commissioner for the:

- (1) SUBDIVISION OF ERF 8304, KUISEBMOND EXTENSION 9, WALVIS BAY INTO ERF A AND THE REMAINDER
- (2) PERMANENT CLOSURE OF THE PROPOSED SUBDIVIDED ERFA/8304 ASA "PUBLIC OPEN SPACE"
- (3) REZONING OF ERF A/8304 FROM "PUBLIC OPEN SPACE" TO "UTILITY SERVICES"

In accordance with the Walvis Bay Zoning Scheme, Part 2, Section 105 of the Urban and Regional Planning Act No. 5 of 2018, the Environmental Management Act (No. 7 of 2007), and the Environmental Impact Assessment Regulations (GN 30 of 6 February 2012), Kamau TPDS hereby provides public notification of the above application.

Erf 8304 is located in Walvis Bay along Johny Ya Otto Street, in Kuisebmond Extension 9. The Erf measures 2280 sqm in extent, and is zoned "Public Open Space".

The owner of Erf 8304 would like to subdivide the erf into two erven (Erf A and RE/8304), with the intention of creating a separate erf for a substation (Erf A). Additionally, the owner seeks to permanently close the public open space on the proposed subdivided Erf A and rezone it to "Utility Services" to align the land use of a substation with the Walvis Bay Zoning Scheme. The Remainder of Erf 8304 is to remain as a public open space and open to the public.

Please further take note that -

a) For more enquiries regarding the subdivision, closure of a public open space and the rezoning application, visit the Municipality of Walvis Bay's Department of Planning.

b) any person having objections to the proposed development concerned or who wants to comment, may in writing lodge such objections and comments, together with the grounds, with the Chief Executive Officer of the Municipality of Walvis Bay, and with the applicant within 14 days of the last publication of this notice, i.e. no later than **10 March 2025**.

REGISTRATION OF INTERESTED AND AFFECTED PARTIES (I&APs) AND SUBMISSION OF COMMENTS:

In line with Namibia's Environmental Management Act (No. 7 of 2007) and EIA regulations (GN 30 of 6 February 2012), all I&APs are hereby invited to register and submit their comments, concerns or questions in writing on or before 10 March 2025.

FOR MORE INFORMATION AND QUERIES, KINDLY CONTACT: Applicant

Local Authority
No. 59 Jenner Street | Windhoek West
c: +264 81 653 2389 | t: +264 83 722 7000
P.O. Box 22296 | Windhoek hope@kamautpds.com
w: www.kamau-architects.com



Municipality Walvis Bay Private Bag 5017 Nangolo Mbumba Drive +264 (0)64 201 3229 atpotemptl@walvisbaycc.org.na



TALICLE ENGINEERING CC

Refrigeration and air conditioning technician wanted.

Qualification:

- Advance diploma in air conditioning and refrigeration.
- Electrical engineering certificate an added advantage.
- 5 Years' experience

Send CV to: **talicleeng@gmail.com**

VACANCY:

Seeking a Married Couple for Remote **BLUEBERRY FARM** Roles

We have two key positions available for a married couple willing to live and work in a remote setting:
Head of Blueberry Agricultural Technology
Leverage AI, precision irrigation, and data analytics to boost blueberry yields and sustainability.

Responsibilities:

- Develop and implement tech-driven strategies.
- Oversee irrigation systems for efficiency.
- Integrate AI and data analytics for improved performance.
- Lead and mentor agricultural teams.
- Ensure compliance, sustainability, and budget management.

Requirements:

- 8–15 years in agricultural tech (blueberry/fruit experience preferred).
- Expertise in irrigation, data management, and AI.
- Proven leadership and problem-solving abilities.
- Relevant tertiary education in agriculture or related field.
- Procurement & Office Manager (Blueberry Farm)
- Oversee procurement of supplies/services, vendor negotiations, and office operations.
- Manage blueberry export/import processes and ensure regulatory compliance.
- Maintain records and collaborate with teams for seamless operations.

Requirements:

- 6+ years in procurement/office management (agriculture preferred).
- Experience with export/import documentation.
- Proficiency in advanced Excel.
- Strong negotiation, organizational, and problem-solving skills.
- High integrity and confidentiality.

Kindly submit CV to: **hello@namibibibberies.com** before **28 February 2024**.





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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:**

	<i>Speaking</i>	<i>Reading</i>	<i>Writing</i>
English	Excellent	Excellent	Excellent
Afrikaans	Excellent	Good	Good
Oshiwambo	Excellent	Excellent	Excellent
10. **Employment Record:**

From: 2019 to Present	
Employer:	Impala Environmental Consulting
Positions held:	Environmental Assessment Practitioner
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
<ul style="list-style-type: none"> Project Local Consultant Client Liaison 	<p>Name of assignment or project: Catchment Management Plan for the swakoppoort dam namibia</p> <p>Year: 2020</p> <p>Location: Okahandja, Namibia.</p> <p>Client: Namwater</p>

<ul style="list-style-type: none"> • Water Sampling and Reporting • Project Management • Project Supervision 	<p>Main project features: Catchment Management Plan for the Swakoppoort Dam.</p> <p>Positions held: Local Consultant</p> <p>Activities performed: Water Sampling, logistics, site inspections and report writing.</p>
<ul style="list-style-type: none"> • Project Leader • Client Liaison • Public Participation • Report Writing • Project Management • Project Supervision 	<p>Name of assignment or project: Environmental Impact Assessment for the Development of a Tantalite Mine, Southern Namibia.</p> <p>Year: 2020</p> <p>Location: Warmbad, Karas Region</p> <p>Client: Orange River Pegmatite (Pty) Ltd</p> <p>Main project features: Environmental Management</p> <p>Positions held: Lead Consultant</p> <p>Activities performed: Project Management, Report Writing, Public Participation, Site Inspections, Stakeholder Engagement, Specialist Study Inputs and Map production.</p>
<ul style="list-style-type: none"> • Project Leader • Client Liaison • Public Participation • Report Writing • Project Management • Project Supervision 	<p>Name of assignment or project: Environmental Impact Assessment for Proposed Development of A Medical Tourism University Hospital In Henties Bay</p> <p>Year: 2020</p> <p>Location: Henties Bay, Erongo Region</p> <p>Client: Franco Civil Engineering Cc</p> <p>Main project features: Environmental Impact Assessment.</p> <p>Positions held: Lead Consultant</p> <p>Activities performed: Project Management, Report Writing, Public Meetings, Site Inspections, Stakeholder Engagement, Specialist Study Inputs and Map production.</p>
<ul style="list-style-type: none"> • Project Leader • Client Liaison • Public Participation • Report Writing • Project Management • Project Supervision 	<p>Name of assignment or project: Environmental Impact Assessment for the Development of a Marble Mine.</p> <p>Year: 2020</p> <p>Location: 10 km north of Karibib</p> <p>Client: Sunsand Investments (Pty) Ltd</p> <p>Main project features: Environmental Impact Assessment.</p> <p>Positions held: Lead Consultant</p> <p>Activities performed: Project Management, Report Writing, Public Meetings, Site Inspections, Stakeholder Engagement, Specialist Study Inputs and Map production.</p>
<ul style="list-style-type: none"> • Project Leader • Client Liaison • Public Participation • Report Writing • Project Management • Project Supervision 	<p>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.</p> <p>Year: 2020</p> <p>Location: 40 km northwest of Arandis</p> <p>Client: Rockstar Mining cc</p> <p>Main project features: Environmental Impact Assessment.</p> <p>Positions held: Lead Consultant</p> <p>Activities performed: Project Management, Report Writing, Public Meetings, Site Inspections, Stakeholder Engagement, Specialist Study Inputs and Map production.</p>

<ul style="list-style-type: none"> • Project Leader • Client Liaison • Public Participation • Report Writing • Project Management • Project Supervision 	<p>Name of assignment or project: Environmental Impact Assessment for Sand Mining Activities on Mining Claim 72027</p> <p>Year: 2020</p> <p>Location: 30 km North of Ongwediva</p> <p>Client: Comitx Investments Group CC</p> <p>Main project features: Environmental Impact Assessment.</p> <p>Positions held: Lead Consultant</p> <p>Activities performed: Project Management, Report Writing, Public Meetings, Site Inspections, Stakeholder Engagement, Specialist Study Inputs and Map production.</p>
<ul style="list-style-type: none"> • Project Leader • Client Liaison • Public Participation • Report Writing • Project Management • Project Supervision 	<p>Name of assignment or project: Environmental Impact Assessment for Mineral Exploration Activities on EPL 6408</p> <p>Year: 2020</p> <p>Location: 5 km south of Karibib</p> <p>Client: Antler Gold Inc</p> <p>Main project features: Environmental Impact Assessment.</p> <p>Positions held: Lead Consultant</p> <p>Activities performed: Project Management, Report Writing, Public Meetings, Site Inspections, Stakeholder Engagement, Specialist Study Inputs and Map production.</p>
<ul style="list-style-type: none"> • Project Leader • Client Liaison • Public Participation • Report Writing • Project Management • Project Supervision 	<p>Name of assignment or project: Environmental Impact Assessment for Dimension Stone Quarrying Activities on Mining Claims 71896-71900</p> <p>Year: 2020</p> <p>Location: 15 km north of Karibib</p> <p>Client: Triple Tas Trading cc</p> <p>Main project features: Environmental Impact Assessment.</p> <p>Positions held: Lead Consultant</p> <p>Activities performed: Project Management, Report Writing, Public Meetings, Site Inspections, Stakeholder Engagement, Specialist Study Inputs and Map production.</p>
<ul style="list-style-type: none"> • Project Leader • Client Liaison • Public Participation • Report Writing • Project Management • Project Supervision 	<p>Name of assignment or project: Environmental Impact Assessment for Mineral Exploration on EPL 7930</p> <p>Year: 2020</p> <p>Location: 40 km northwest of Karibib</p> <p>Client: Antler Gold Inc</p> <p>Main project features: Environmental Impact Assessment.</p> <p>Positions held: Lead Consultant</p> <p>Activities performed: Project Management, Report Writing, Public Meetings, Site Inspections, Stakeholder Engagement, Specialist Study Inputs and Map production.</p>
<ul style="list-style-type: none"> • Project Leader • Client Liaison • Public Participation 	<p>Name of assignment or project: Environmental Impact Assessment for Dimension Stone Quarrying Activities on</p>

<ul style="list-style-type: none"> • Report Writing • Project Management • Project Supervision 	<p>Mining Claims 72100, 72101, 72102, 72103, 72104, 72105 And 72106</p> <p>Year: 2020</p> <p>Location: 40 km northeast of Arandis</p> <p>Client: Tala Mining cc</p> <p>Main project features: Environmental Impact Assessment.</p> <p>Positions held: Lead Consultant</p> <p>Activities performed: Project Management, Report Writing, Public Meetings, Site Inspections, Stakeholder Engagement, Specialist Study Inputs and Map production.</p>
<ul style="list-style-type: none"> • Project Leader • Client Liaison • Public Participation • Report Writing • Project Management • Project Supervision 	<p>Name of assignment or project: Environmental Impact Assessment for Mineral Exploration on EPL 5702</p> <p>Year: 2020</p> <p>Location: 30 km South of Kamanjab</p> <p>Client: Emor Mining (Pty) Ltd</p> <p>Main project features: Environmental Impact Assessment.</p> <p>Positions held: Lead Consultant</p> <p>Activities performed: Project Management, Report Writing, Public Meetings, Site Inspections, Stakeholder Engagement, Specialist Study Inputs and Map production.</p>
<ul style="list-style-type: none"> • Project Leader • Client Liaison • Public Participation • Report Writing • Project Management • Project Supervision 	<p>Name of assignment or project: Environmental Impact Assessment for the Development of a Lodge in the Daures Conservancy Area.</p> <p>Year: 2019</p> <p>Location: 50-80 km northwest of UIS</p> <p>Client: !U-#Gab Ams Investment cc</p> <p>Main project features: Environmental Impact Assessment.</p> <p>Positions held: Lead Consultant</p> <p>Activities performed: Project Management, Report Writing, Public Meetings, Site Inspections, Stakeholder Engagement, Specialist Study Inputs and Map production.</p>
<ul style="list-style-type: none"> • Project Leader • Client Liaison • Public Participation • Report Writing • Project Management • Project Supervision 	<p>Name of assignment or project: Eia For the Proposed Establishment of a Service Station on Erf 4121, Khorixas</p> <p>Year: 2019</p> <p>Location: Khorixas</p> <p>Client: Noabeb's Trading Enterprises cc</p> <p>Main project features: Environmental Impact Assessment.</p> <p>Positions held: Lead Consultant</p> <p>Activities performed: Project Management, Report Writing, Public Meetings, Site Inspections, Stakeholder Engagement, Specialist Study Inputs and Map production.</p>
<ul style="list-style-type: none"> • Project Leader • Client Liaison • Public Participation • Report Writing • Project Management • Project Supervision 	<p>Name of assignment or project: Environmental Impact Assessment on dimension stone and industrial mineral quarrying activities on mining claims 71227 and 71228.</p> <p>Year: 2019</p> <p>Location: 10 km south of Omaruru</p> <p>Client: Hiku Poultry and Trading CC</p> <p>Main project features: Environmental Impact Assessment.</p>

	<p>Positions held: Lead Consultant</p> <p>Activities performed: Project Management, Report Writing, Public Meetings, Site Inspections, Stakeholder Engagement, Specialist Study Inputs and Map production.</p>
<ul style="list-style-type: none"> • Project Leader • Client Liaison • Public Participation • Report Writing • Project Management • Project Supervision 	<p>Name of assignment or project: Environmental Impact Assessment for Mineral Exploration Activities on Epl 5818, Central Namibia</p> <p>Year: 2019</p> <p>Location: 40 km east of Khorixas</p> <p>Client: Gravity Empire Investments (Pty) Ltd</p> <p>Main project features: Environmental Impact Assessment.</p> <p>Positions held: Lead Consultant</p> <p>Activities performed: Project Management, Report Writing, Public Meetings, Site Inspections, Stakeholder Engagement, Specialist Study Inputs and Map production.</p>
<ul style="list-style-type: none"> • Project Leader • Client Liaison • Public Participation • Report Writing • Project Management • Project Supervision 	<p>Name of assignment or project: Environmental Impact Assessment for Mineral Exploration on Epl 6374</p> <p>Year: 2019</p> <p>Location: 50 km South of Opuwo</p> <p>Client: Nami Geological Techniques (Pty)</p> <p>Main project features: Environmental Impact Assessment.</p> <p>Positions held: Lead Consultant</p> <p>Activities performed: Project Management, Report Writing, Public Meetings, Site Inspections, Stakeholder Engagement, Specialist Study Inputs and Map production.</p>