

### **ENVIRONMENTAL MANAGEMENT PLAN (EMP) FOR:**

THE PROPOSED EXPLORATION ON EXCLUSIVE PROSPECTING LICENSE (EPL) NO. 7167 LOCATED ON THE SOUTHEAST OF ARANDIS IN THE ERONGO REGION, NAMIBIA.

**ECC Application Reference: APP-003704** 

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# EMP: EPL 7167

# **TABLE OF CONTENTS**

| LIS  | T OF I   | FIGURES AND TABLES                                                            | ii     |
|------|----------|-------------------------------------------------------------------------------|--------|
| 1    | INTR     | ODUCTION                                                                      | 1      |
|      | 1.1      | Project Background                                                            | 1      |
|      | 1.2      | Ownership of the Exclusive Prospecting License (EPL) No. 7167                 | 4      |
|      | 1.3      | Appointed Environmental Consultant and ECC Application                        | 4      |
|      | 1.4      | The Aim of the Draft Environmental Management Plan (EMP)                      | 5      |
| 2    | LEGA     | AL OBLIGATIONS GOVERNING THE PROPOSED ACTIVITIES                              | 5      |
| 3    | DRAF     | T EMP IMPLEMENTATION, ROLES & RESPONSIBILITIES                                | 10     |
|      | 3.1      | Competent Environmental Monitoring Authorities                                | 10     |
|      | 3.2      | The Exploration Manager (or the Proponent)                                    | 10     |
|      | 3.3      | Safety, Health and Environmental (SHE) or Environmental Control Officer (     | (ECO)  |
|      | 3.4      | Public Relation Officer (PRO)                                                 | 11     |
|      | 3.5      | Archaeology: Chance Finds Procedure (CFP) Implementation Roles                | 12     |
| 4    | ENVI     | RONMENTAL MANAGEMENT & MITIGATION ACTION PLANS                                | 12     |
|      | 4.1      | Key potential Negative/ (Adverse) Impacts                                     | 12     |
|      | 4.2      | The Management and Mitigation of Potential Key Negative Impacts               | 13     |
|      | 4.3      | Rehabilitation and Decommissioning measures                                   | 40     |
|      | 4.4      | Environmental and Social Monitoring                                           | 43     |
| LI   | ST OI    | F FIGURES AND TABLES                                                          |        |
| Fig  | ure 1:   | Locality map of EPL 7167 near Arandis in the Erongo Region                    |        |
| Fig  | ure 2:   | Land uses covered by EPL 7167                                                 | 3      |
| Fig  | ure 3:   | EPL No. 7167 and information on the mining cadastre portal (source;           |        |
| http | os://por | tals.landfolio.com/namibia/)                                                  | 4      |
|      | ole 1:   | Applicable and required permits/authorizations/licenses for the proposed pro- |        |
| and  | d explo  | ration activities                                                             |        |
| Tal  | ole 2:   | Management and Mitigation Measures for the Planning, Prospecting & Explo      | ration |
| Ph   | ases     | 14                                                                            |        |
| Tal  | ole 3:   | Management and Mitigation Measures to rehabilitate the explored sites and     |        |
| ded  | commis   | ssioning of the site works                                                    | 41     |

| Resource Five Hundred Namibia (Pty) Ltd |                                                    | EMP: EPL 7167               |  |  |
|-----------------------------------------|----------------------------------------------------|-----------------------------|--|--|
| Table 4:                                | Monitoring requirements to manage and mitigate the | e potential adverse impacts |  |  |
| (updated                                | after Resilient Environmental Solutions, 2019)     | 43                          |  |  |
|                                         |                                                    |                             |  |  |
|                                         |                                                    |                             |  |  |
|                                         |                                                    |                             |  |  |
|                                         |                                                    |                             |  |  |
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#### 1 INTRODUCTION

### 1.1 Project Background

Resource Five Hundred Namibia (Pty) Ltd (*The Proponent*) has applied to the Ministry of Mines and Energy (MME), to be granted the Exclusive Prospecting License (EPL) No. 7167. The EPL is valid from 26 March, 2019 to 25 March, 2022; therefore, an EPL renewal is pending. The 22,031.231-hectare EPL is located about 49 km from Arandis in the Erongo Region (**Figure 1** and **Figure 2**).

The targeted commodities for this project are **Base and Rare Metals**, **Industrial Minerals** and **Radioactive Minerals** (applied for). Therefore, the Proponent intends to conduct mineral exploration activities within the EPL leading to the estimation and delineation of the target resources (commodities). Prospecting and exploration works are among listed activities that may not be undertaken without an Environmental Clearance Certificate (ECC) under the Environmental Management Act (EMA) (2007) and its 2012 Environmental Impact Assessment (EIA) Regulations. The relevant listed activities as per EIA regulations are (under):

#### **Mining and Quarrying Activities**

- 3.1 The construction of facilities for any process practivities which requires a license, right or other form of authorization, and the renewal of a license, right or other form of authorization, in terms of the Minerals (Prospecting and Mining Act), 1992.
- 3.2 Other forms of mining or extraction of any natural resources whether regulated by law or not.
- 3.3 Resources extraction, manipulation, conservation, and related activities.

The Proponent has appointed Excel Dynamic Solutions (Pty) Ltd (EDS Namibia), an independent team of Environmental Consultants to apply for the project ECC (through the Competent Authority, Ministry of Mines and Energy (MME)), conduct the required Environmental Scoping Assessment process and compile the Scoping Assessment Report and this Draft Environmental Management Plan (EMP) compiled). These documents form part of the ECC Application submitted for evaluation and consideration of an ECC to the Environmental Commissioner at the Department of Environmental Affairs and Forestry (DEAF) of the Ministry of Environment, Forestry and Tourism (MEFT).

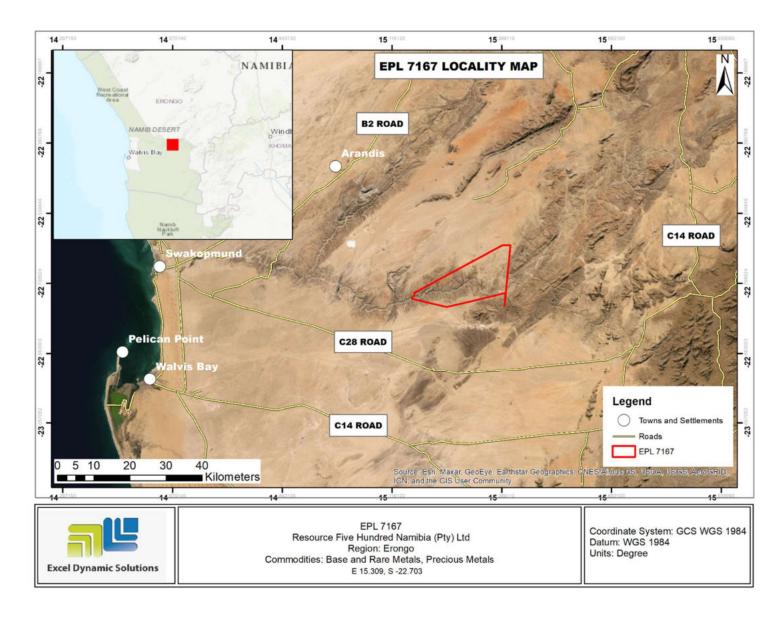


Figure 1: Locality map of EPL 7167 near Arandis in the Erongo Region

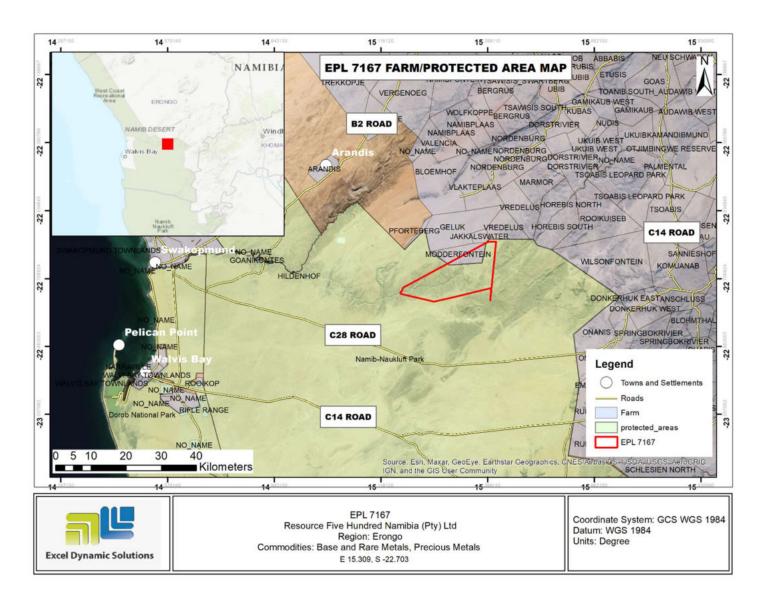


Figure 2: Land uses covered by EPL 7167

#### 1.2 Ownership of the Exclusive Prospecting License (EPL) No. 7167

The EPL on which the exploration activities are proposed to be undertaken is owned by Resource 500. The application for the EPL was applied for on the 9<sup>th</sup> of May 2018. Prior to commencing with the actual works on the EPL, these are subject to an ECC by MEFT.

The status of EPL 7167 at MME is shown on the Namibia Mining Cadastral Portal (upon searching) on this link <a href="https://portals.landfolio.com/namibia/">https://portals.landfolio.com/namibia/</a> and as shown on the mining portal in Figure 3 below.

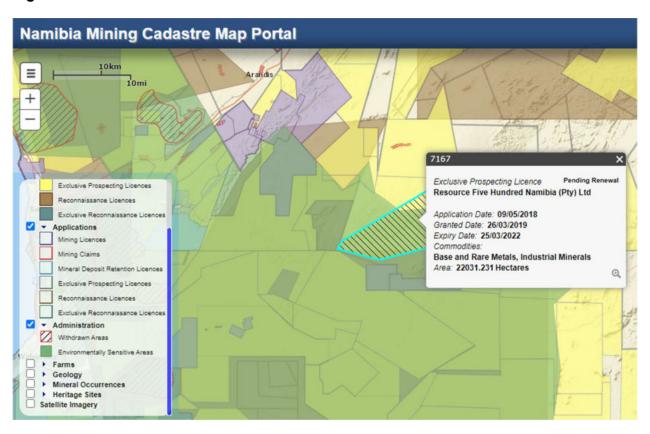


Figure 3: EPL No. 7167 and information on the mining cadastre portal (source; https://portals.landfolio.com/namibia/)

### 1.3 Appointed Environmental Consultant and ECC Application

To ensure that the proposed activity is compliant with the national environmental legislation the project Proponent appointed an independent environmental consultant, Excel Dynamic Solutions (Pty) Ltd, to undertake the required Environmental Assessment (EA) process and apply for the ECC on their behalf.

The ECC application was compiled and submitted to Ministry of Environment, Forestry and Tourism (MEFT) on the 22<sup>nd</sup> of April 2022. The date stamped copy of the ECC by MEFT was uploaded on the online Portal as the environmental custodian for project registration purposes. Upon submission of an Environmental Scoping Assessment Report and Draft Environmental Management Plan (EMP), an ECC for the proposed project will be considered by the Environmental Commissioner at the MEFT's Department of Environmental Affairs and Forestry (DEAF).

#### 1.4 The Aim of the Draft Environmental Management Plan (EMP)

Regulation 8(j) of the EIA Regulations (2012) requires that a draft Environmental Management Plan (EMP) shall be included as part of the Environmental Assessment (EA) scoping report. A 'Management Plan' is defined as:

"...a plan that describes how activities that may have significant environments effects on the environment are to be mitigated, controlled and monitored."

An EMP is one of the most important outputs of the EA process as it synthesizes all the proposed mitigation and monitoring actions, set to a timeline and with specific assigned responsibilities. It provides a link between the impacts identified in the EA process and the required mitigation measures to be implemented during operation. It is important to note that an EMP is a statutory document and a person who contravenes the provisions of this EMP may face imprisonment and/or a fine. This EMP is a living document and can be amended to adapt to address project changes and/or environmental conditions and feedback from compliance monitoring.

The purpose of the Draft EMP is to ensure that the proposed project activities are undertaken in an environmentally friendly and sustainably manner. This would be done through the effective implementation of recommended environmental management and mitigation measures contained in the EMP, for which the aim is to avoid and or minimize the adverse identified impacts while maximizing the positive impacts.

#### 2 LEGAL OBLIGATIONS GOVERNING THE PROPOSED ACTIVITIES

Upon issuance of the ECC and obtaining any other necessary and required documentations, the Proponent will then prepare for the administrative and technical aspects needed for the actual prospecting and exploration works on the EPL.

The prospecting and exploration and associated activities will be required to adhere to certain local, regional, national as well as international legal framework (as detailed in the Scoping Report). The legal requirements provided herein are these in terms of permits or licensing that the Proponent will need to obtain prior to the site works and or renewal of permits throughout the exploration phase. These legal requirements are provided under **Table 1**.

Table 1: Applicable and required permits/authorizations/licenses for the proposed prospecting and exploration activities

| Legislation/Policy/Guideline                                                                                                                           | Relevant Provision                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Implication for the Project and Contact Institution/Person                                                                                                                                                                                                                                                                                                                                                                         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Environmental Management Act (EMA) No. 7 of 2007  Environmental Impact Assessment (EIA) Regulations Government Notice 28-30 (Government Gazette 4878)) | The Act requires that projects with significant environmental impacts are subject to an environmental assessment process (Section 27).  The Act details principles which are to guide all EAs.  Details requirements for public consultation within a given environmental assessment process (Government Notice 30 Section 21).  Details the requirements for what should be included in a Scoping Report (Government Notice 30 Section 8) and an Assessment Report (Government Notice 30 Section 15). | The EMA and its regulations should inform and guide this ESA process.  Should the ECC be issued to the Proponent, it should be renewed every 3 years, counting from the date of issue.  Contact details at the Department of Environmental Affairs and Forestry (DEAF), Ministry of Environment, Forestry and Tourism (MEFT)  Office of the Environmental Commissioner (Attention: Mr. Timoteus Mufeti)  Tel: +264 (0) 61 284 2701 |
| Minerals (Prospecting and Mining) Act (No. 33 of 1992)                                                                                                 | Section 48 (3): To enable the Minister to consider any application referred to in section 47 the Minister may (b) require the person concerned by notice in writing to (i) carry out or cause to be carried out such environmental impact studies as may be specified in the notice.  Section 54(2): details provisions pertaining to the decommissioning or abandonment of a mine.                                                                                                                    | The Proponent should ensure that all necessary permits/authorization for these EPL are obtained from the Ministry of Mines and Energy (MME).  Contact person and details at the MME (Mining Commissioner)  Mr. Erasmus Shivolo  Tel: +264 61 284 8167                                                                                                                                                                              |

| Legislation/Policy/Guideline                                                | Relevant Provision                                                                                                                                                                                                                                                                        | Implication for the Project and Contact Institution/Person                                                                                                                                                                                                                                                                                                                                               |
|-----------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                             | Under this Act (Section 51 (1a)), holder of a mineral license cannot exercise any rights on a private land until the holder has entered into an agreement with the owner regarding payment of compensation.                                                                               | The Proponent should timely enter into and sign access and land use agreement (consent) with respective affected (private) farm owners or representatives of the occupiers of land. Access permits should also be applied for in order to get access rights into the Namib-Naukluft Park.                                                                                                                |
| Petroleum Products and Energy<br>Act (No. 13 of 1990) Regulations<br>(2001) | Regulation 3(2)(b) states that "No person shall possess or store any fuel except under authority of a licence or a certificate, excluding a person who possesses or stores such fuel in a quantity of 600 litres or less in any container kept at a place outside a local authority area" | The Proponent should obtain the necessary authorisation form the MME for the storage of fuel on-site.  Mr. Carlo Mcleod (Ministry of Mines and Energy: Acting Director – Petroleum Affairs)  Tel: +264 61 284 8291                                                                                                                                                                                       |
| Forestry Act 12 of 2001,<br>Amended Act 13 of 2005                          | Prohibits the removal of any vegetation within 100 m from a watercourse (Forestry Act S22 (1)). The Act prohibits the removal of and transport of various protected plant species.                                                                                                        | Should there be protected plant species, which are known to occur within the actual project site footprint, and require to be removed, a Permit should be obtained from the nearest Forestry Office (MEFT) prior to removing them.  Contact Details at MEFT (Forestry Division Head Office),  Director of Forestry: Mr. Johnson Ndokosho  Email: johnson.ndokosho@meft.gov.na  Tel: +264 (0) 61 208 7663 |
| National Heritage Act (Act No. 27 of 2004)                                  | The Act makes provision for the protection and conservation of places and objects of heritage significance and the registration of such places and objects. Part V Section 46 of the Act prohibits removal, damage, alteration, or excavation                                             |                                                                                                                                                                                                                                                                                                                                                                                                          |

| Legislation/Policy/Guideline                                                     | Relevant Provision                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Implication for the Project and Contact Institution/Person                                                                                                                                                                                                                                                                                                                                        |
|----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| The National Monuments Act No. 28 of 1969                                        | of heritage sites or remains, while Section 48 sets out the procedure for application and granting of permits such as might be required in the event of damage to a protected site occurring as an inevitable result of development. Part VI Section 55 Paragraphs 3 and 4 require that any person who discovers an archaeological site should notify the National Heritage Council. Section 51 (3) sets out the requirements for impact assessment.  Should any objects of heritage significance be identified during the site clearing and excavations, the work must cease immediately in the affected sites and the necessary steps taken to seek authorisation from the Council.  The Act enables the proclamation of national monuments and protects archaeological sites. | The Proponent is advised to make an application to the National Heritage Council for a Consent to allow Detailed Archaeological and Heritage Assessment Study of the EPL area.  Contact: The Director of the National Heritage Council of Namibia (NHC): Mrs. Erica Ndalikokule  OR Regional Heritage Officers at the NHC  Mr. Manfred Gaeb and Ms. Agnes Shiningayamwe  Tel: +264 (0) 61 301 903 |
| The Road Traffic and Transport<br>Act No. 52 of 1999 and its 2001<br>Regulations | Provides for the control of traffic on public road and the regulations pertaining to road transport, including the licensing of vehicles and drivers.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Mr Eugene de Paauw (Roads Authority- specialist Road legislation), Tel: +264 (0) 61 284 7072                                                                                                                                                                                                                                                                                                      |

### 3 DRAFT EMP IMPLEMENTATION, ROLES & RESPONSIBILITIES

The project Proponent is ultimately responsible for the implementation of the EMP. However, they may delegate this responsibility at any time, as they deem necessary during the project phases (usually an environmental control officer or safety, health, and environmental person). The roles and responsibilities of all the parties involved in the effective implementation of this EMP are as follows:

#### 3.1 Competent Environmental Monitoring Authorities

The Department of Environmental Affairs and Forestry (DEAF) of the Ministry of Environment, Forestry and Tourism (MEFT) as the environmental custodian is responsible for enforcing compliance with the EMA, its regulations and full implementation of this EMP. The authority is also responsible for the reviewing of bi-annual reports submitted by the Proponent and grant ECC renewal after every 3 years following an environmental audit.

Further Monitoring institutions include but not limited to:

- The National Heritage Council of Namibia: for archaeological and heritage resources (sites and objects).
- **Ministry of Mines and Energy:** for compliance to the relevant prospecting and exploration requirements, including petroleum products' storage and handling on site.

### 3.2 The Exploration Manager (or the Proponent)

This Manager, who may also be the Proponent, will be responsible for the following:

- Development and management of schedules for daily activities in compliance with the EMP.
- Managing/overseeing the implementation of this EMP and updating and maintaining it when necessary.
- Ensure that relevant commitments contained in the EMP Action Plans are adhered to.
- Ensure the relevant staff is trained in procedures entailed in their duties.
- Through consultations and cooperation with the ECO/SHE officer, issuing fines to individuals who may be in breach of the EMP provision and if necessary, removing such individuals from the site.
- Setting up and managing the schedule for the day-to-day activities.
- Ensuring all incidents are recorded and documented.

Undertaking an annual review of the EMP and amending the document when necessary.

**EMP: EPL 7167** 

# 3.3 Safety, Health and Environmental (SHE) or Environmental Control Officer (ECO)

The SHE or ECO (as appropriate) will be responsible for ensuring that project activities are completed on time, efficiently and sustainably. The ECO/SHE Officer's duties and responsibilities will include:

- The SHE Officer will be responsible for the following activities:
- Planning and carrying out site inductions to the workers on-site and visitors to the worksite(s).
- Ensuring compliance with relevant environmental and related authorisations and license conditions.
- Ensure that the requirements of the EMP are carried out during applicable activities throughout the project life span.
- Monitor the overall implementation of the EMP.
- Identifying and appointing of appropriately qualified specialists (were necessary) to undertake the programs in a timeous manner and to acceptable standards.

### 3.4 Public Relation Officer (PRO)

The Public Relation Officer will be responsible for the following tasks:

- Liaison between the affected parties (property owners), Park associates and/or occupiers
  of the land, other stakeholders, and
- Ensure effective communication with stakeholders (affected parties or landowners or occupiers of land), media (if necessary) and the public.
- Managing public relations issues.
- Preparing and submitting public relations reports, if required.
- Collaborating with personnel and maintaining project-related open communication among personnel.
- Cooperate with all relevant interested and affected parties/stakeholders.

#### 3.5 Archaeology: Chance Finds Procedure (CFP) Implementation Roles

The following personnel have been assigned responsibilities as per the Chance Finds Procedure (**Appendix 1**) as per the provided Archaeological and Heritage Assessment Studies conducted for the proposed activities:

- A. Operator: To exercise due caution if archaeological remains are found
- **B. Foreman:** To secure site and advise management timeously
- C. Superintendent: To determine safe working boundary and request inspection
- **D.** Archaeologist: To inspect, identify, advise management, and recover remains.

The Proponent should assess these commitments in detail and should acknowledge their obligation to the specific management actions detailed in the Tables of the following sections.

#### 4 ENVIRONMENTAL MANAGEMENT & MITIGATION ACTION PLANS

The environmental management and mitigations measures (management plan actions) provided to the potential adverse impacts associated with the proposed project and its activities are presented under this chapter. The aim of these plan actions is to avoid these potential impacts where possible, and where avoidance is impossible, measures are provided to reduce the impacts' significance (as presented under the impacts' assessment chapter of the Scoping Report).

### 4.1 Key potential Negative/ (Adverse) Impacts

The summary of key identified potential adverse impacts for which the measures have been developed are as follows:

- Potential disturbance of existing pastoral systems,
- Physical land / soil disturbance,
- Impact on local biodiversity (fauna and flora) and habitat disturbance,
- Potential impact on water resources and soils particularly due to pollution,
- Air quality issue: potential dust from surface excavation, and drilling,
- Potential occupational health and safety risks associated with the movement / operating
  of machinery and equipment on site,
- Vehicular traffic safety and impact on services infrastructure such as local roads,
- Vibrations and noise associated with drilling activities may be a nuisance to locals,
- Environmental pollution through different types of waste generated on the site,

- Impact on archaeological or cultural heritage resources,
- Potential social nuisance and conflicts between affected parties / landowners and or neighbouring land users and as well as the Proponent.

**EMP: EPL 7167** 

#### 4.2 The Management and Mitigation of Potential Key Negative Impacts

The management and mitigation measures (action plans) for the potential adverse impacts are presented in **Table 2** for the planning, and prospecting and exploration (operational and maintenance) phases.

The required management and mitigation plan actions have been presented under **Table 2** in terms of:

- (a) Environmental aspect and issues for which management actions are required,
- (b) proposed impact mitigation measures,
- (c) key performance indicator (KPI) for monitoring success levels of management actions,
- (d) responsible person(s) for implementing the proposed management actions,
- (e) resources required for implementing management actions and monitoring and
- (f) implementation timeframes for the proposed management actions.

 Table 2:
 Management and Mitigation Measures for the Planning, Prospecting & Exploration Phases

| Aspect                          | Impact                                                  | Management & Mitigation Measure(s)                                                                                                                                                                                                                                                                                                                                                                             | Key Performance<br>Indicator (KPI)                                                                                                                                                     | Responsible Person | Resources                                        | Timeline                                   |
|---------------------------------|---------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------------------------------------------|--------------------------------------------|
|                                 |                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                | ANNING PHASE                                                                                                                                                                           | 1 613011           |                                                  |                                            |
| EMP implementation and training | Lack of EMP<br>awareness and<br>implications<br>thereof | -A Comprehensive Health and Safety Plan for the project activities should be compiled. This will include all the necessary health, safety, and environmental considerations applicable to respective works on sites.  -An EMP non-compliance penalty system should be implemented on site.  -The Proponent should appoint an SHE Officer to be responsible for managing the EMP implementation and monitoring. | -All required Plans<br>and systems are<br>compiled and in place<br>Safety, Health and<br>Environmental (SHE)<br>Officer is appointed                                                   | -Proponent         | -Records of EMP implementation Plans and Systems | Pre-exploration<br>(project<br>activities) |
| Authorizations                  | Lack of<br>Agreements,<br>Permits/<br>Licenses          | -All the required agreements and licenses or permits should be applied for and signed, respectively before commencement of work on the EPL, or as required.  -The permits, agreements referred to herein include land access & use (by land or property owners or representatives of the                                                                                                                       | -Applicable permits and licenses to obtained from relevant authorities and kept on site for records keeping and future inspections  -Agreements signed and obtained from landowners or | -Proponent         | -Permits and<br>Licenses                         | Prior to exploration                       |

**Impact** 

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**EMP: EPL 7167** 

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prospecting

| Aspect                              | Impact                                               | Management & Mitigation Measure(s)                                                                                                                                                                                                                                                                                                                                                                                                                          | Key Performance<br>Indicator (KPI)                                    | Responsible<br>Person | Resources                                                                                                                            | Timeline                                              |
|-------------------------------------|------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|
|                                     |                                                      | labour preferentially to out-of-area people (outsiders) where possible. Out-of-area employment should be justified, for example by the unavailability of local skills only.  -Equal opportunity should be provided for both men and women, when and where possible.                                                                                                                                                                                         | local development committee -Notification via the Constituency Office |                       |                                                                                                                                      | exploration<br>phase                                  |
| Specialised procurement of services | Exploration contractors and other services providers | -All services related to exploration activities such as drilling that the Proponent may need, preference should be given to local providers of such services. If not available locally, the services search should be extended to a regional level (Erongo Region) and lastly, nationally, or international, if all efforts truly yield no success.  -Opportunities such as small tenders for instance should be awarded through the established committee. | -Number of hired contractors                                          | -Proponent            | -Record of hired or contracted companies or services providers  -Local Development Committee  -Office of the Constituency Councillor | Pre-project activities and when necessary, throughout |

| Aspect                                | Impact                                                  | Management & Mitigation Measure(s)                                                                                                                                                                                                                                                                                                             | Key Performance<br>Indicator (KPI)                                                                                                                                                            | Responsible<br>Person | Resources                                                                                                           | Timeline                                       |
|---------------------------------------|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|---------------------------------------------------------------------------------------------------------------------|------------------------------------------------|
| Corporate Social Responsibility (CSR) | Social<br>commitment<br>failures                        | -Infrastructure should be donated to the community through the Regional Council post-exploration for distribution/allocation to nearby the poor communities.  -The project owner (Proponent) should fulfil their promises of CSR, upon proper consultation with the local development committees to establish what the community really needs. | -Visible commitment<br>to ensure that the<br>local community is<br>benefitting from the<br>project                                                                                            | -Proponent            | -Office of the Constituency Councillor -Local Development Committee to monitor implementation of the CSR            | Throughout the prospecting & exploration phase |
|                                       |                                                         | PROSPECTING                                                                                                                                                                                                                                                                                                                                    | AND EXPLORATION PHA                                                                                                                                                                           | SE                    |                                                                                                                     |                                                |
| EMP implementation and training       | Lack of EMP<br>awareness and<br>implications<br>thereof | -EMP trainings should be provided to all new workers on site and to old workers (as a refresher) every 6 months.  -All site personnel should be aware of necessary health, safety, and environmental considerations applicable to their respective work  -The implementation of this EMP should be monitored.                                  | -Compliance monitoring conducted monthly for the exploration phase and should be recorded  -EMP Refresher training for employees/workers every 6 months  -Timely renewal of the Environmental | -SHE Officer          | -Monitoring reports<br>by the SHE Officer<br>or ECO  -ECC renewed on<br>time  -Records of EMP<br>training conducted | Throughout the exploration phase               |

| Aspect        | Impact                                     | Management & Mitigation Measure(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Key Performance<br>Indicator (KPI)                                                                                   | Responsible<br>Person                   | Resources | Timeline              |
|---------------|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-----------|-----------------------|
|               |                                            | -The site should be inspected, and a compliance audit done throughout the project activities, monthly and compliance monitoring reports submitted to the DEAF bi-annually.  -An EMP non-compliance penalty system should be implemented on site.                                                                                                                                                                                                                                                                                                 | Clearance Certificate (ECC) every 3 years                                                                            |                                         |           |                       |
| Pastoral land | Impact on grazing areas (On the Farm area) | -Any unnecessary removal or destruction of grazing land, due to exploration activities should be avoided.  -Vegetation found on the site, but not in the targeted exploration areas should not be removed but left to preserve biodiversity and grazing land.  -Workers should refrain from driving off road and creating unnecessary tracks that may contribute to soil erosion and loss of grazing land.  -Environmental awareness on the importance of the preservation of grazing land for local livestock should be provided to the workers | -Little damage on grass cover and vegetation  -Maximum effort implemented to curb loss of grazing areas with the EPL | -Exploration<br>Manager<br>-SHE Officer | -None     | Throughout the phases |

| Aspect                    | Impact           | Management & Mitigation Measure(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Key Performance<br>Indicator (KPI)                                      | Responsible<br>Person                   | Resources            | Timeline                         |
|---------------------------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|-----------------------------------------|----------------------|----------------------------------|
| Land use (physical soils) | Land degradation | -Overburden should be handled more efficiently during exploration works to avoid erosion when subjected erosional processes.  -Prevent creation of huge piles of waste rocks by performing sequential backfilling, especially for drilling exploration.  -Stockpiled topsoil and overburden waste rocks should be used to backfill the explored and disturbed site areas/spots.  -Soils that are not within the intended and targeted footprints of the site areas should be left undisturbed and soil conservation implemented as far as possible.  -Project vehicles/machinery should stick to access roads provide and or meant for the project operations but not to unnecessarily create further tracks on site by driving everywhere resulting in soil compaction | -No proliferation of informal vehicle tracks.  -No new erosion gullies. | -Exploration<br>Manager<br>-SHE Officer | -Complaint's logbook | Throughout the exploration phase |

| Aspect                   | Impact                                                     | Management & Mitigation Measure(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Key Performance<br>Indicator (KPI)                                                                                                                                       | Responsible<br>Person                   | Resources                                                                                                   | Timeline                                                                                 |
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| Water resource           | Over-<br>abstraction<br>(Water demand<br>and availability) | -When necessary, make provision for water carting to site to augment onsite water supplies for exploration.  -Water should be efficiently used by implementing water saving measures such as recycle and re-use where necessary and possible. This includes using water for cooling exploration equipment for the cleaning of project equipment.  -Water conservation awareness and saving measures training should be provided to all the project workers so that they understand the importance of conserving water and become accountable. | -Proof/ recording/<br>quantification of water<br>saving efforts -No complaints of<br>water level drops and<br>short in supply from<br>local water users                  | -Exploration<br>Manager<br>-SHE Officer | -Permit issuance (or water purchasing agreements for carting to site)                                       | Water supply agreements to be obtained prior to exploration phase  Throughout the phases |
| Soil and water resources | Soil and water resources pollution                         | -Spill control preventive measures should be in place on site to management soil contamination, thus preventing and or minimizing the contamination from reaching water resources bodies. Some of the soil control preventive measures that can be implemented include:                                                                                                                                                                                                                                                                       | -No complaints of pollutants on the soils and eventually in the water due to exploration activities -No visible oil spills on the ground or contaminated/polluted spots. | -SHE Officer                            | -Complaint's logbook  -Waste containers  -Non-permeable material to cover the ground surface at areas where | Throughout exploration phase                                                             |

| Aspect | Impact | Management & Mitigation Measure(s)                                                                                                                                                                                                                                                                                                                                                                                  | Key Performance<br>Indicator (KPI) | Responsible<br>Person | Resources                                           | Timeline |
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|        |        | (a) Identification of oil storage and use locations on site and allocate drip trays and polluted soil removal tools suitable for that specific surface (soil or hard rock cover) on the sites.  (b) Maintain equipment and fuel storage tanks to ensure that they are in good condition thus preventing leaks and spills.  (a) The oil storage and use locations should be visually inspected for container or tank |                                    |                       | hydrocarbons and potential pollutants are utilized. |          |
|        |        | condition and spills.  (b) Maintain a fully provisioned, easily accessed spill kit. Spill kits should be located throughout the active project sites contain the floor dry absorbent material and absorbent booms, pads, mats. These would be suitable for ground surface areas that are covered mainly by hard rocks.                                                                                              |                                    |                       |                                                     |          |
|        |        | -All project employees should<br>be sensitized about the impacts<br>of soil pollution and advised to<br>follow appropriate fuel delivery<br>and handling procedures.<br>-The Proponent should develop<br>and prepare countermeasures                                                                                                                                                                                |                                    |                       |                                                     |          |

| Aspect | Impact | Management & Mitigation Measure(s)                                                                                                                                                                                                                                                                                               | Key Performance<br>Indicator (KPI) | Responsible Person | Resources | Timeline |
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|        |        | to contain, clean up, and mitigate the effects of an oil spill. This includes keeping spill response procedures and a well-stocked cache of supplies easily accessible.  -Ensure employees receive basic Spill Prevention, Control,                                                                                              |                                    |                    |           |          |
|        |        | and Countermeasure (SPCC) Plan training and mentor new workers as they get hired.                                                                                                                                                                                                                                                |                                    |                    |           |          |
|        |        | -Exploration site areas where hydrocarbons will be utilized, the surface should be covered with an impermeable plastic liner (e.g., an HDPE liner), carefully placed to minimize risk of puncturing, to prevent any spillages from getting into direct contact with the soils and prevent eventual infiltration into the ground. |                                    |                    |           |          |
|        |        | -Project machines and equipment should be equipped with drip trays to contain possible oil spills when operated on site.                                                                                                                                                                                                         |                                    |                    |           |          |
|        |        | -In cases of accidental fuel or<br>oil spills on the soils from site<br>vehicles, machinery and<br>equipment, the polluted soil                                                                                                                                                                                                  |                                    |                    |           |          |

| Aspect | Impact | Management & Mitigation Measure(s)                                                                                                                                                                                                                                                                                                                | Key Performance<br>Indicator (KPI) | Responsible<br>Person | Resources | Timeline |
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|        |        | should be removed immediately and put in a designate waste type container for later disposal as per the preceding bullet point. The removed polluted soil should either be completely disposed of or cleaned and returned to where it was taken from on site or can be replaced with a cleaner soil.                                              |                                    |                       |           |          |
|        |        | -Although fuel (diesel) required for exploration equipment will be stored in a tank mounted on a mobile trailer, drip trays must be readily available on this trailer and monitored to ensure that accidental fuel spills along the tank trailer path/route around the exploration sites are cleaned on time (soon after the spill has happened). |                                    |                       |           |          |
|        |        | -Polluted soil must be collected and transported away from the site to an approved and appropriately classified hazardous waste treatment facility.                                                                                                                                                                                               |                                    |                       |           |          |
|        |        | -Washing of equipment contaminated hydrocarbons, as well as the washing and servicing of vehicles should                                                                                                                                                                                                                                          |                                    |                       |           |          |

| Aspect       | Impact                  | Management & Mitigation Measure(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Key Performance<br>Indicator (KPI)                                                                                                                                                                                                                                            | Responsible<br>Person | Resources               | Timeline                                                 |
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|              |                         | take place at a dedicated area, where contaminants are prevented from contaminating soil or water resources.  -Toilet water should be treated by discharging into chemical toilets and periodically emptied out before reaching capacity and transported to a wastewater treatment facility.                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                               |                       |                         |                                                          |
| Biodiversity | Loss of Fauna and Flora | Flora:  -No onsite vegetation should be cut or used for firewood related to the project's operations.  -Even if a certain shrub or tree is found along exploration sites, this does not mean that it should be removed. Therefore, care should be taken when exploring without destroying the site vegetation.  -Design access roads appropriately in a manner that disturbs minimal land areas and vegetation as possible.  -Make use of the existing road network as much as possible and avoid off-road driving. | -Incident reports of illegal hunting of wildlife by the project crew/workers.  -No complaints of livestock theft, snaring or killing of livestock and wildlife by the project personnel  -No disturbance to unmarked areas.  No complaints from locals regarding unauthorised | -SHE Officer          | -Complaint's<br>logbook | During site set up, and throughout the exploration phase |

| Aspect | Impact | Management & Mitigation Measure(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Key Performance<br>Indicator (KPI)          | Responsible<br>Person | Resources | Timeline |
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|        |        | -Vegetation clearing to be kept to a minimum. The vegetation of the site is largely low and open and therefore whole-sale vegetation clearing should only be applied where necessary and within the development footprint.  -Formulate and implement suitable and appropriate operational management guidelines for the cleared areas. Incorporated in the guidelines are the progressive rehabilitation measures. These should consider:  (a) Post closure land-use measures and/or establishment of self-sustaining indigenous vegetation  (b) Erosion management measures  -Vegetate the top surface of the cleared areas as soon as it is practicably possible.  -Cleared areas should be revegetated with seed or plants of locally occurring species. | vegetation removal or cutting down of trees |                       |           |          |

| Aspect      | Impact   | Management & Mitigation Measure(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Key Performance<br>Indicator (KPI)    | Responsible Person      | Resources                                                                                     | Timeline              |
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|             |          | -Regular monitoring for alien plants within the project's footprint during operations/exploration.  -No muddy and dirty equipment should be brought onto site as this is likely to carry seed of alien species.  Fauna (domestic and wild)  -Workers should refrain from disturbing, killing or stealing domestic and wild animals and killing small soil and rock outcrops' species found on site.  -Poaching (illegal hunting) of wildlife from the area is strictly prohibited.  -Environmental awareness on the importance of biodiversity preservation should be |                                       |                         | -Anti-poaching unit<br>of the Namibian<br>Police Force<br>-MEFT's Wildlife<br>Protection Unit |                       |
| Air Quality | Air qual | provided to the workers.  -Exploration vehicles should not drive at a speed more than                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -Dust suppression measures            | -Exploration<br>Manager | -Grievance logbook                                                                            | Throughout the phases |
|             |          | 40 km/h to avoid dust generation around and within the site area.  -The Proponent should ensure                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | implemented  -Visible efforts to curb | -SHE Officer            | -Dust suppression water tanks                                                                 | F.18333               |
|             |          | that the exploration schedule is limited to the given number of                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | uust                                  |                         |                                                                                               |                       |

| Aspect | Impact | Management & Mitigation Measure(s)                                                                                                                                                                                                                | Key Performance<br>Indicator (KPI) | Responsible Person | Resources | Timeline |
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|        |        | days of the week, and not every day. This will keep the vehicle-related dust level minimal in the area.                                                                                                                                           |                                    |                    |           |          |
|        |        | -Dust control measures such as reasonable amount of water spray should be used on gravel roads and near exploration sites to suppress the dust that may be emanating from certain exploration areas on the EPL such as drilling, trenching sites. |                                    |                    |           |          |
|        |        | -Dust masks, eye protective glasses and other respiratory personal protective equipment (PPE) such as face masks should be provided to the workers on site drilling areas, where they are exposed to dust.                                        |                                    |                    |           |          |
|        |        | -The impact mitigation measures should be covered in the relevant farm access agreement as required by law on commercial farms. This should also apply to resettled/communal farms, if any.                                                       |                                    |                    |           |          |
|        |        | -Drilling and excavating equipment should be regularly maintained to ensure drilling                                                                                                                                                              |                                    |                    |           |          |

| Aspect           | Impact                  | Management & Mitigation Measure(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Key Performance<br>Indicator (KPI)                                                                                                                                                      | Responsible<br>Person                          | Resources                                                                                                      | Timeline               |
|------------------|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|----------------------------------------------------------------------------------------------------------------|------------------------|
|                  |                         | and excavation efficiency and so to reduce dust generation and harmful gaseous emissions.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                         |                                                |                                                                                                                |                        |
| Waste management | Environmental pollution | -Workers should be sensitized to dispose of waste in a responsible manner and not to litter.  -All domestic and general operational waste produced daily should be contained until such that time it will be transported to designated waste sites.  -No waste may be buried or burned on site or anywhere else and no wastes left on the sites.  -The exploration site should be equipped with separate waste bins for hazardous and general/domestic waste.  -Hazardous waste, including emptied chemical containers should be safely stored on site where they cannot be accessed and used by uniformed locals for personal use. These containers can then be transported to the nearby | -A register of all waste generated on site is kept on site.  -All waste disposal permits from relevant authorities are available on site.  -No littering on and around the project site | -Proponent  -Exploration Manager  -SHE Officer | -Funds to acquire waste storage bins/ drums; and transport all waste from the site.  -Waste storage containers | Throughout the phases. |

| Aspect | Impact | Management & Mitigation Measure(s)                        | Key Performance<br>Indicator (KPI) | Responsible Person | Resources | Timeline |
|--------|--------|-----------------------------------------------------------|------------------------------------|--------------------|-----------|----------|
|        |        | approved hazardous waste sites for safe disposal. No      |                                    |                    |           |          |
|        |        | waste should be improperly                                |                                    |                    |           |          |
|        |        | disposed of on site or in the                             |                                    |                    |           |          |
|        |        | surroundings, i.e., on unapproved waste sites.            |                                    |                    |           |          |
|        |        | -Oil spills should be taken care                          |                                    |                    |           |          |
|        |        | of by removing and treating                               |                                    |                    |           |          |
|        |        | soils affected by the spill.                              |                                    |                    |           |          |
|        |        | -A penalty system for                                     |                                    |                    |           |          |
|        |        | irresponsible disposal of waste                           |                                    |                    |           |          |
|        |        | on site and anywhere in the                               |                                    |                    |           |          |
|        |        | area should be implemented.                               |                                    |                    |           |          |
|        |        | -Careful storage and handling                             |                                    |                    |           |          |
|        |        | of hydrocarbons on site is                                |                                    |                    |           |          |
|        |        | essential.                                                |                                    |                    |           |          |
|        |        | -Potential contaminants such                              |                                    |                    |           |          |
|        |        | as hydrocarbons and                                       |                                    |                    |           |          |
|        |        | wastewater should be                                      |                                    |                    |           |          |
|        |        | contained on site and disposed                            |                                    |                    |           |          |
|        |        | of in accordance with municipal                           |                                    |                    |           |          |
|        |        | wastewater discharge                                      |                                    |                    |           |          |
|        |        | standards so that they do not                             |                                    |                    |           |          |
|        |        | contaminate surrounding soils and eventually groundwater. |                                    |                    |           |          |
|        |        |                                                           |                                    |                    |           |          |
|        |        | -An emergency plan should be                              |                                    |                    |           |          |
|        |        | available for major/minor spills                          |                                    |                    |           |          |
|        |        | at the site during operation                              |                                    |                    |           |          |
|        |        | activities (with consideration of                         |                                    |                    |           |          |
|        |        | air, groundwater, soil and                                |                                    |                    |           |          |
|        |        | surface water) and during the                             |                                    |                    |           |          |

| Aspect | Impact                                                      | Management & Mitigation Measure(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Key Performance<br>Indicator (KPI)   | Responsible Person                      | Resources                                                                         | Timeline                                       |
|--------|-------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------|
|        |                                                             | transportation of the products(s) to the sites.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                      |                                         |                                                                                   |                                                |
|        | Wastewater generated by exploration workers living on-site. | -Washing of hydrocarbon contaminated equipment, as well as the washing and servicing of vehicles should take place at a dedicated area, where contaminants are prevented from contaminating soil or water resources.  -Sewage waste should be stored as per the portable chemical toilets supplied on site and regularly disposed of at the nearest wastewater treatment facility.  -Emptying of chemical toilets according to the manufacturer's specifications.  -All wastewater and hydrocarbon substances and other potential pollutants associated with the project activities should be contained in designated containers on site | -Adequate toilet facilities on site. | -Exploration<br>Manager<br>-SHE Officer | -Chemical toilets, waste treatment agents/chemicals -Wastewater discharge permits | At site setup and throughout exploration phase |
|        |                                                             | and later disposed of at nearby approved waste sites in accordance with MAWLR's Water Environment Division standards on wastewater discharge into the environment.                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                      |                                         |                                                                                   |                                                |

| Aspect | Impact | Management & Mitigation Measure(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Key Performance<br>Indicator (KPI)                                                                                                                   | Responsible Person                | Resources                                                                                                    | Timeline                      |
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|        |        | This is to ensure that these hazardous substances do not infiltrate into the ground and affect the local groundwater quality.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                      |                                   |                                                                                                              |                               |
| Noise  | Noise  | -Noise from project vehicles and equipment on the working sites of the EPL should be at acceptable levels.  -Exploration hours should be restricted to between 08h00 and 17h00 to avoid noise and vibrations generated by exploration equipment and the movement of vehicles before or after hours, thus disturbing the tranquillity in the area during the night or early morning hours.  -When operating the drilling machinery onsite, workers should be equipped with personal protective equipment (PPE) such as earplugs to reduce exposure to excessive noise.  -The transportation of exploration materials, equipment and machinery should be limited to once or | -Noise generating activities such as drilling limited to weekdays only.  -PPE provided to workers operating noisy equipment and in noisy site areas. | -Exploration manager -SHE Officer | -Clearly written placards with operational hours in a day placed at one of the visible access roads to sites | Throughout the project phases |

| Aspect            | Impact                                     | Management & Mitigation Measure(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Key Performance<br>Indicator (KPI)                                                                                                                                                   | Responsible<br>Person                          | Resources                                                                                                                                                                                  | Timeline |
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|                   |                                            | twice a week only, but not every day.  -Target exploration sites that may be found to be within less than 1 km from the residences (farmhouses) should be avoided at all costs. This is done to preserve tranquillity of the residents.                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                      |                                                |                                                                                                                                                                                            |          |
| Health and Safety | Occupational & Community Health and Safety | -The Proponent should commit to and make provision for biannual full medical check-up for all the workers at site to monitor the impact of project related activities on them (workers).  -As part of their induction, the project workers should be provided with an awareness training of the risks of mishandling equipment and materials on site as well as health and safety risk associated with their respective jobs.  -When working on site, employees should be properly equipped with adequate personal protective equipment (PPE) such as coveralls, gloves, safety boots, earplugs, | -Compilation of Comprehensive Health and Safety Plan -Regular health screening of workers -Bi-annual health and safety audits doneAll onsite workers and visitors equipped with PPE. | -Exploration Manager  -Proponent  -SHE Officer | -Health and Safety Policies -Funds to acquire health and safety related equipment. and to pay for employee medical services -First Aid training for at least 1 personnel at each work site |          |

| Aspect | Impact | Management & Mitigation Measure(s)                                                                                                                                                                        | Key Performance<br>Indicator (KPI) | Responsible Person | Resources | Timeline |
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|        |        | dust masks, safety glasses, etc.                                                                                                                                                                          |                                    |                    |           |          |
|        |        | -Heavy vehicle, equipment and<br>fuel storage site should be<br>properly secured, and<br>appropriate warning signage<br>placed where visible.                                                             |                                    |                    |           |          |
|        |        | -Drilled exploration boreholes that will no longer be in use or to be used later after being drilled should be properly marked for visibility and capped/closed off.                                      |                                    |                    |           |          |
|        |        | -Ensure that after completion of exploration holes, drill cuttings are put back into the hole and the holes filled and levelled.                                                                          |                                    |                    |           |          |
|        |        | -An emergency preparedness plan should be compiled, and all personnel appropriately trained.                                                                                                              |                                    |                    |           |          |
|        |        | -Workers should not be allowed to drink alcohol prior to and during working hours nor allowed on site when under the influence of alcohol as this may lead to mishandling of equipment which results into |                                    |                    |           |          |
|        |        | injuries and other health and safety risks.                                                                                                                                                               |                                    |                    |           |          |

| Aspect                   | Impact                                                                                 | Management & Mitigation Measure(s)                                                                                                                                                                                                                                                                                                                                                                                                                      | Key Performance<br>Indicator (KPI)                                                                                                     | Responsible<br>Person                                     | Resources                                                                                                                                         | Timeline                                                          |
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|                          |                                                                                        | -The site to be equipped with<br>"danger" or "cautionary" signs<br>for any potential danger or risk<br>area identified on site.                                                                                                                                                                                                                                                                                                                         |                                                                                                                                        |                                                           |                                                                                                                                                   |                                                                   |
| Fires                    | Accidental fire outbreak                                                               | -Portable fire extinguishers should be provided on site.  -No open fires to be created by project personnel.  -Potential flammable areas and structures should be marked as such with clearly visible signage.                                                                                                                                                                                                                                          | -No Fires recorded (due to presence of workers)                                                                                        | -Exploration<br>Manager<br>-SHE Officer                   | -Fire extinguishers<br>(1 per vehicle) and<br>1 per working site                                                                                  | Throughout the phases                                             |
| Archaeology and heritage | Accidental disturbance and destruction of archaeological or heritage objects and sites | -The management and mitigations or recommendation to minimize impact on archaeological and heritage resources are not available, pending a Detailed/Comprehensive Specialist' Study. The only provisional recommendation to the proposed Detailed Study hereto is that:  The Proponent is advised to make an application to the National Heritage Council for a Consent to allow a Detailed Assessment of the area in relation to the proposed activity | -Preservation of all artefacts that are discovered around project area -Cessation of work upon discovery/unearthing of unknown objects | -Exploration<br>Manager<br>-SHE Officer<br>-Archaeologist | -Technical Consultant (Archaeologist to help identify and advise on heritage object discovery) -Salvage equipment -Flag tapes -GPS (site marking) | -Archaeologist<br>to be present on-<br>site during<br>excavations |

| Aspect           | Impact                                        | Management & Mitigation Measure(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Key Performance<br>Indicator (KPI)                                                                                                                        | Responsible<br>Person                   | Resources                                            | Timeline              |
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|                  |                                               | believed to be an archaeological or heritage site.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                           |                                         |                                                      |                       |
| Social conflicts | Job seeking, and differing norms and cultures | -The Proponent should prioritize the employment of more local people, and only if necessary and due to lack of skills in the area, out-of-area people can be given some of the work. This is to avoid the influx of outsiders into the area for works that can be done the locals.  -The locals to be employed during the project phases should be provided with the necessary training of skills required for the project to avoid bringing in many out-of-area employees. This way, skills development and transfer is ensured in the nearby communities.  -The workers should be engaged in health talks and training about the dangers of engaging in unprotected sexual relations which results in contracting HIV/AIDS and other sexual related infections. | -No complaints of property theft or damage related to project workers -More local workers who are familiar with the values, and way of living in the area | -Exploration<br>Manager<br>-SHE Officer | -Grievance logbook<br>-Employment Code<br>of Conduct | Throughout the phases |
|                  |                                               | -Out-of-area workers that may be employed (due to their                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                           |                                         |                                                      |                       |

| Aspect | Impact                             | Management & Mitigation Measure(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Key Performance<br>Indicator (KPI)                                                                                                                                                                                 | Responsible Person                      | Resources                                                                                                                                                                 | Timeline              |
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|        |                                    | unique work skills) on site should be sensitized on the importance of respecting the local values and norms, so that they can co-live-in harmony with the local communities during the duration of their employment on site.                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                    |                                         |                                                                                                                                                                           |                       |
|        | Property intrusion and disturbance | -The Proponent should inform their workers on the importance of respecting the locals' properties by not intruding or damage their homes, fences or snaring and killing their livestock.  -Any workers or site employees that will be found guilty of intruding peoples 'privately owned properties should be called in for disciplinary hearing and/or dealt with as per their employer' (Proponent)'s code of employment conduct  -Site workers should be advised to respect the community and local's private properties, values, and norms.  -No worker should be allowed to wander in people's private | -Project workers are educated on what is expected of them while on site in relation to the private and public properties -No complaints of damage to private or public properties by project workers or activities | -Exploration Manager  -PRO -SHE Officer | -Anti-property intrusion or damage pamphlets or placards placed at every exploration site  -Fines for any intentional damage or disturbance of private or public property | Throughout the phases |

| Aspect            | Impact         | Management & Mitigation Measure(s)                                                                                                                                                                                                                                                                                                                                                                                                                                          | Key Performance<br>Indicator (KPI)                                                                                                                                                                                                                                                                                                                  | Responsible<br>Person                   | Resources                                                                                | Timeline               |
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|                   |                | yards or fences without permission.  -Site workers are not allowed to kill or in any way disturb local livestock.  -No worker should be allowed to, without permission cut down or damage trees belonging either the farm owner, the neighbouring farm/s or in the already scarce community vegetation.                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                     |                                         |                                                                                          |                        |
| Vehicular Traffic | Traffic safety | -The transportation of exploration materials, equipment and machinery should be limited to once or twice a week only, but not every day to reduce the pressure on local roads.  -The heavy truck loads should comply with the maximum allowed speed limit for respective vehicles while transporting materials and equipment/machinery on the public and access roads (40km/h).  -The potential carted water to the site (from other source of water supply) should be done | -Site access road permits obtained, and requirements fulfilled -No complaints from members of the public regarding vehicular traffic issues related to the project -All personnel operating the project vehicles and machinery are appropriately licensed and possession of valid driving licensesThe vehicles are driven at the recommended speed. | -Exploration<br>Manager<br>-SHE Officer | -Vehicular traffic compliance to be included in the annual environmental audit reporting | Throughout the phases. |

| Aspect | Impact | Management & Mitigation Measure(s)                                                                                                                                                                                                                                                                                              | Key Performance<br>Indicator (KPI)                                                 | Responsible<br>Person | Resources | Timeline |
|--------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-----------------------|-----------|----------|
|        |        | once or twice a week in container that can supply and store water for most of the week, thus reducing the number of water-carting trucks on the road daily.  -Drivers of all project phases' vehicles should be in possession of valid and appropriate driving licenses and adhere to the road safety rules.                    | -Demarcated areas<br>for parking, offloading,<br>and loading zones are<br>on sites |                       |           |          |
|        |        | -Drivers should drive slowly (40km/hour or less) and be on the lookout for livestock and wildlife as well as travellers.  -The Proponent should ensure that the site access roads are well equipped with temporary road signs conditions to cater for vehicles travelling to and from site throughout the project's life cycle. |                                                                                    |                       |           |          |
|        |        | -Project vehicles should be in a road worthy condition and serviced regularly to avoid accidents owing to mechanical faults.  -Vehicle drivers should only                                                                                                                                                                      |                                                                                    |                       |           |          |

| Aspect | Impact | Management & Mitigation Measure(s)                                                                                                                                              | Key Performance<br>Indicator (KPI) | Responsible Person | Resources | Timeline |
|--------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|--------------------|-----------|----------|
|        |        | access roads provided and as agreed.                                                                                                                                            |                                    |                    |           |          |
|        |        | -Vehicle's drivers should not be<br>allowed to operate vehicles<br>while under the influence of<br>alcohol.                                                                     |                                    |                    |           |          |
|        |        | -Sufficient parking area for all project vehicles should be provided for and clearly demarcated on sites.                                                                       |                                    |                    |           |          |
|        |        | -The Proponent should make provision for safe materials and equipment offloading and loading areas on sites.                                                                    |                                    |                    |           |          |
|        |        | -No heavy trucks or project related vehicles should be parked outside the project site boundary or demarcated areas for such purpose.                                           |                                    |                    |           |          |
|        |        | -To control traffic movement on site, deliveries from and to site should be carefully scheduled. This should optimally be during weekdays and between the hours of 8am and 5pm. |                                    |                    |           |          |
|        |        | -The site access road(s) should<br>be upgraded to an<br>unacceptable standard to be<br>able to accommodate project<br>related vehicles and access                               |                                    |                    |           |          |

| Aspect                                      | Impact                                        | Management & Mitigation Measure(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Key Performance<br>Indicator (KPI)                                                                                                      | Responsible<br>Person           | Resources                                                         | Timeline              |
|---------------------------------------------|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|-------------------------------------------------------------------|-----------------------|
|                                             |                                               | permits obtained from the Roads Authority.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                         |                                 |                                                                   |                       |
| Local resources and services infrastructure | Overuse of existing roads and water resources | -The Proponent should consider re-using and recycling water on site to reduce the abstraction of fresh water from the local sources.  -The heavy trucks transporting materials and services to site should be scheduled to travel at least twice or thrice a week to avoid daily travelling to site, unless on cases of emergencies.  -The Proponent should consider frequent maintenance of local roads around their operations to ensure that the roads are in a good condition for other roads users from and outside the area | The local roads are frequently maintained by the Proponent and movement of heavy trucks is limited -Water saving measures are implement | -Proponent -Exploration Manager | -Road maintenance excavator/bulldozer -onsite water storage tanks | Throughout the phases |

**EMP: EPL 7167** 

### 4.3 Rehabilitation and Decommissioning measures

Successful rehabilitation requires careful consideration of the local ecological context in combination with rehabilitation goals. The most important steps in undertaking a successful rehabilitation are planning and environmental awareness (environmental education) on the importance of progressive rehabilitation (or post-activity rehabilitation) and its importance to the environment. Furthermore, to

successfully implement the planned rehabilitation, practically, this will depend on a few factors, namely the rehabilitation program, characteristics of the site, nature of disturbance, rehabilitation methods, as well as resources availability.

**EMP: EPL 7167** 

Rehabilitation of the EPL site may include the re-vegetation of areas with species consistent with surrounding vegetation; refilling of trenches in such a way that subsoil is replaced first and topsoil replaces last. The management and mitigation measures (action plans) for the rehabilitation and decommissioning of explored sites and site works, respectively are presented in **Table 3**.

Table 3: Management and Mitigation Measures to rehabilitate the explored sites and decommissioning of the site works

| Aspect         | Impact                                       | Management & Mitigation<br>Measure(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Key Performance<br>Indicator (KPI)                                                                                                                                                                                                  | Responsible<br>Person | Resources                                                                                                                                                                   | Timeline                |
|----------------|----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| Rehabilitation | Explored and damaging of site land and soils | -All drilled exploration boreholes related to the project activities (especially within the sensitive area) and no longer needed should be capped and backfilled if this is what the farm owners prefer.  -Utilize stockpiled subsoil and topsoil to fill the excavated pits/trenches progressively back, i.e., stockpiled topsoil should be levelled during exploration activities.  -Backfilling of all excavated pits and trenches with loose materials but not only be filled with sand alone, as wind will scour the sand and re-establish the holesProvision of both financial and technical resources for | -Capped boreholes and backfilled pits  -No stockpiled topsoil (topsoil is levelled after completion of each work)  -Visible signs of stockpiled topsoil  -Annual update of finances reserved for decommissioning and rehabilitation | -Proponent            | -Record of boreholes drilled, and pits excavated (if any)  -Waste containers on sites  -Photo records of backfilled sites  -Records of campsite and other structures onsite | Pre-site<br>abandonment |

| Aspect          | Impact                        | Management & Mitigation Measure(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Key Performance<br>Indicator (KPI)                                                                                                                               | Responsible<br>Person | Resources                                         | Timeline |
|-----------------|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|---------------------------------------------------|----------|
|                 |                               | progressive rehabilitation and post-exploration activities should be made.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                  |                       | Records of finances set aside for decommissioning |          |
| Decommissioning | Structures and infrastructure | -All accumulated waste (hazardous, solid, and general) up until the cessation of exploration activities will be removed site and transported to designated off site waste management facilities -Removal of project vehicles and equipment from the site and taken to designated parking facility off siteAll project support structures such as ablution facility (toilet and washroom system), campsites, temporary field offices and storage containers/tanks shall be demolished, and the waste taken to designated sites. The site areas on which these structures were set up will be rehabilitated to pre-operational state. | -No sign of waste or littering seen on site and around site areas -project structures and infrastructure Campsite dismantled, and materials taken away from site | -Proponent            | activities                                        |          |

#### **EMP: EPL 7167**

#### 4.4 Environmental and Social Monitoring

To support and ensure that the proposed management and mitigation measures are achieving the desired results throughout the project phases, a monitoring plan must be implemented alongside the mitigation plan. **Table 4** presents the required environmental and social monitoring in terms of each potential impact, parameters to be monitored and monitoring objective. Included in the same Table is the reporting structures for monitoring, frequency, methods to be used, reporting structure, any thresholds that apply and relevant recommended actions (OMAVI, 2020).

The same Table also presents the monitoring implementation for the exploration phase, given the similarity in activities, hence the "reporting structure" column presented as "Exploration manager". Therefore, the monitoring exercise will be done according to the relevant project stage or phase. In other words, for monitoring of mitigation implementation in the prospecting and exploration phase, the reporting structure ends with the Exploration Manager.

Table 4: Monitoring requirements to manage and mitigate the potential adverse impacts (updated after Resilient Environmental Solutions, 2019)

| Impact                                                                   | Parameter<br>to be<br>Monitored                                                       | Monitoring<br>Objective                      | Key<br>Performance<br>Indicator (KPI)                                                               | Methods of<br>Monitoring                              | Frequenc<br>y | Responsible<br>Party | Reporting structure                 | Threshold          | Action if threshold is exceeded                                          |
|--------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------------|-----------------------------------------------------------------------------------------------------|-------------------------------------------------------|---------------|----------------------|-------------------------------------|--------------------|--------------------------------------------------------------------------|
|                                                                          |                                                                                       |                                              |                                                                                                     | Wate                                                  | r and soil po | llution              |                                     |                    |                                                                          |
| Soil pollution<br>by<br>hydrocarbon<br>(fuel and<br>lubricant<br>spills) | Complaints<br>from farmer/s<br>or occupiers<br>of land within<br>the project<br>sites | To prevent contaminati on of site soils      | No complaints<br>from farmers<br>about visible oil<br>spills                                        | Inspection<br>of<br>complaints<br>logbooks            | Weekly        | SHE officer          | SHE Officer> Exploration<br>Manager | A logged complaint | Further<br>consultations<br>with the<br>farm/landowne<br>rs or custodian |
| Wastewater<br>generated by<br>exploration<br>workers<br>living on-site.  | Open<br>defecation<br>and<br>urination.                                               | To prevent<br>environme<br>ntal<br>pollution | Adequate toilet facilities on site. Complaints from the public about open defecation and urination. | Visual observation. Inspection of complaints logbook. | Weekly        | SHE Officer          | SHE Officer> Exploration<br>Manager | A logged complaint | Clean-up of affected areas.                                              |

| Impact                                                                                                      | Parameter<br>to be<br>Monitored                                           | Monitoring<br>Objective                                                                               | Key<br>Performance<br>Indicator (KPI)                                           | Methods of<br>Monitoring                                             | Frequenc<br>y   | Responsible<br>Party | Reporting structure                                                               | Threshold                                                                  | Action if threshold is exceeded                                                    |
|-------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|----------------------------------------------------------------------|-----------------|----------------------|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------|------------------------------------------------------------------------------------|
|                                                                                                             |                                                                           |                                                                                                       |                                                                                 |                                                                      | Soils           |                      |                                                                                   | 1                                                                          |                                                                                    |
| Loss of<br>topsoil                                                                                          | Increased<br>loss of soil                                                 | To prevent loss of topsoil                                                                            | No proliferation<br>of informal<br>vehicle tracks.<br>No new erosion<br>gullies | Visual<br>observation                                                | Weekly          | SHE Officer          | SHE Officer> Exploration<br>Manager                                               | Proliferation of new vehicle tracks Formation of new gullies in work areas | Rehabilitation<br>of affected<br>explored areas                                    |
|                                                                                                             |                                                                           |                                                                                                       |                                                                                 |                                                                      | Air quality     |                      |                                                                                   |                                                                            |                                                                                    |
| Increase in dust generation, which might negatively affect occupational and residential respiratory health. | Complaints<br>from public<br>about<br>increased in<br>dust<br>generation. | To reduce public complaints and prevent negative changes in air quality due to exploration activities | No complaints from the public about increased dust generation.                  | Inspection of complaints logbook.                                    | Weekly          | SHE Officer          | SHE Officer> Exploration<br>Manager                                               | A logged complaint                                                         | Dust<br>suppression<br>around working<br>areas to<br>reduce fugitive<br>dust       |
| Hydrocarbon<br>emissions<br>from vehicles                                                                   | Complaints<br>from the<br>public about<br>increased<br>vehicles<br>fumes  | Same as above.                                                                                        | No complaints<br>from the public<br>about increased<br>vehicle<br>emissions     | Inspection of complaints logbook.                                    | Weekly          | SHE Officer          | SHE Officer> Exploration<br>Manager                                               | A logged complaint                                                         | Servicing of<br>vehicles and<br>machinery by a<br>certified<br>service<br>provider |
|                                                                                                             |                                                                           |                                                                                                       |                                                                                 | Poach                                                                | ning (Illegal h | unting)              |                                                                                   |                                                                            |                                                                                    |
| Illegal<br>hunting of<br>wildlife                                                                           | Reported poaching incidents by projects team                              | To prevent illegal hunting of wildlife                                                                | Incidents reports<br>of illegal hunting<br>of wildlife by                       | Consultatio<br>n with the<br>local Police<br>Service for<br>reported | Weekly          | SHE Officer          | SHE Officer> Exploration<br>Manager> local Police<br>Service (Anti-poaching Unit) | An incidents report logged with the local                                  | Appropriate action will be decided by the                                          |

| Impact                                                                                        | Parameter<br>to be<br>Monitored                                                         | Monitoring<br>Objective                                        | Key<br>Performance<br>Indicator (KPI)                                                                                                  | Methods of Monitoring                                | Frequenc<br>y    | Responsible<br>Party                         | Reporting structure                                                                               | Threshold                                                                      | Action if threshold is exceeded                                                                       |
|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|------------------|----------------------------------------------|---------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
|                                                                                               |                                                                                         |                                                                | exploration                                                                                                                            | incidents of                                         |                  |                                              |                                                                                                   | Police                                                                         | local Police                                                                                          |
|                                                                                               |                                                                                         |                                                                | workers.                                                                                                                               | poaching.                                            |                  |                                              |                                                                                                   | Service                                                                        | Service                                                                                               |
|                                                                                               |                                                                                         |                                                                |                                                                                                                                        | Habita                                               | at loss (Biodi   | versity)                                     |                                                                                                   |                                                                                |                                                                                                       |
| Localised<br>loss of<br>habitat and<br>vegetation                                             | Loss of<br>habitat                                                                      | To prevent loss of habitat outside areas of interest           | No disturbance<br>to unmarked<br>areas within the<br>project area                                                                      | Visual<br>observation                                | Weekly           | SHE Officer                                  | SHE Officer> Exploration<br>Manager                                                               | Vegetation<br>clearance<br>outside of<br>marked<br>areas.                      | Rehabilitation<br>of affected<br>areas to the<br>satisfaction of<br>the SHE<br>Officer                |
|                                                                                               | '                                                                                       |                                                                | Oc                                                                                                                                     | cupational and                                       | d Community      | Health and Safet                             | у                                                                                                 | -1                                                                             |                                                                                                       |
| No health<br>and safety<br>plan for<br>exploration<br>activities.                             | Compiled health and safety plan for exploration activities.                             | To prevent<br>health and<br>safety<br>impacts                  | No significant<br>health and safety<br>incidents (i.e.,<br>serious injuries<br>or loss of life)                                        | Visual observation Inspection of complaints logbooks | Daily/<br>weekly | SHE Officer<br>and<br>Exploration<br>Manager | SHE Officer> Exploration<br>Manager                                                               | Health and safety incident                                                     | Remedy the consequences                                                                               |
| Potential<br>increase in<br>outbreak of<br>wildfires due<br>to project<br>activities          | Occurrence of wildfires                                                                 | To prevent<br>environme<br>nt damage<br>caused by<br>wildfires | No wildfires<br>recorded (due to<br>presence of<br>exploration<br>workers)                                                             | Visual<br>observation                                | Daily            | SHE Officer                                  | SHE Officer> Exploration<br>Manager > local police<br>service                                     | Outbreak of<br>wildfires<br>due to the<br>exploration<br>workers               | Rehabilitation<br>of affected<br>areas                                                                |
|                                                                                               | Archaeology ar                                                                          | nd cultural her                                                | itage (to be updated                                                                                                                   | d upon comple                                        | tion of the re   | quired Detailed A                            | rchaeological and Heritage A                                                                      | ssessment Stud                                                                 | y)                                                                                                    |
| Potential<br>disturbance<br>of<br>archaeologic<br>al and<br>cultural<br>heritage<br>resources | Presence or<br>unearthing of<br>archaeologic<br>al or cultural<br>heritage<br>resources | To prevent destruction of artefacts and sites                  | Preservation of<br>all artefacts and<br>sites that are<br>discovered within<br>the site boundary<br>or around the<br>project site area | Inspection<br>of records<br>of findings              | Daily            | SHE Officer<br>Operator                      | Operator>Foreman> Superintended>SHE Officer>Project Archaeologist>National Heritage Council (NHC) | Unearthing<br>of<br>archaeologi<br>cal or<br>cultural<br>heritage<br>resources | Cease all activities on site and wait for NHC to inspect site and give further instructions / actions |

| Impact                                                                                                      | Parameter<br>to be<br>Monitored                                                                                                                              | Monitoring<br>Objective                                     | Key<br>Performance<br>Indicator (KPI)                                                                 | Methods of<br>Monitoring                  | Frequenc<br>y  | Responsible<br>Party   | Reporting structure                                | Threshold                                                                      | Action if threshold is exceeded                                                                     |
|-------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|-------------------------------------------|----------------|------------------------|----------------------------------------------------|--------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
|                                                                                                             |                                                                                                                                                              |                                                             | Employme                                                                                              | nt creation and                           | d Corporate S  | ocial Responsibi       | lity (CSR)                                         |                                                                                |                                                                                                     |
| Creation of employment                                                                                      | Creation of employment opportunities                                                                                                                         | To ensure that locals benefit from the project              | Number of locals<br>employed during<br>exploration<br>activities                                      | Inspection<br>of<br>employment<br>records | Monthly        | Exploration<br>Manager | Exploration Manager or Proponent                   | Number of<br>those<br>employed                                                 | None                                                                                                |
|                                                                                                             |                                                                                                                                                              |                                                             |                                                                                                       |                                           | Noise          |                        |                                                    |                                                                                |                                                                                                     |
| Potential<br>increase in<br>noise                                                                           | Above ambient noise levels.                                                                                                                                  | To ensure that generated noise does not disturb residents.  | Complaints from residents about noise generated.                                                      | Inspectio V n of complaint s logbook      | Veekly         | SHE Officer            | SHE Officer> Exploration<br>Manager                | A logged complaint about above normal noise levels                             | Revision of site activities                                                                         |
|                                                                                                             |                                                                                                                                                              |                                                             |                                                                                                       | ١                                         | /ehicular Traf | fic                    |                                                    |                                                                                |                                                                                                     |
| Increase in<br>traffic density<br>on declared<br>Roads<br>Authority<br>(RA) roads or<br>damage to<br>these. | Complaints from the public about increase in traffic on the roads. Complaints about damage to RA roads caused by movement of project vehicles and machinery. | To ensure continued ease of access to RA roads by residents | No complaints<br>from the public<br>about increase<br>off traffic due to<br>exploration<br>activities | Inspection<br>of logbooks                 | Weekly         | SHE Officer            | SHE Officer> Exploration Manager > Roads Authority | A logged<br>complaint<br>about traffic<br>increase or<br>damage to<br>RA roads | Find alternative<br>access roads<br>for the<br>workforce.<br>Rehabilitation<br>of affected<br>roads |
|                                                                                                             |                                                                                                                                                              |                                                             | Social nui                                                                                            | sance: Proper                             | ty invasion o  | r disturbance and      | damage                                             |                                                                                |                                                                                                     |
| Potential intrusion or                                                                                      | Unauthorized intrusion and                                                                                                                                   | To prevent crashes                                          | No complaints of property damage                                                                      | Liaison with property                     | Monthly        | PRO                    | Exploration Manager (or Proponent)>PRO>Landowner   | Arising new complaints                                                         | PRO to warn the personnel                                                                           |

| Impact                                                                                  | Parameter<br>to be<br>Monitored                                         | Monitoring<br>Objective                                                    | Key<br>Performance<br>Indicator (KPI)           | Methods of<br>Monitoring          | Frequenc<br>y  | Responsible<br>Party | Reporting structure                                            | Threshold                                      | Action if threshold is exceeded                                                                    |
|-----------------------------------------------------------------------------------------|-------------------------------------------------------------------------|----------------------------------------------------------------------------|-------------------------------------------------|-----------------------------------|----------------|----------------------|----------------------------------------------------------------|------------------------------------------------|----------------------------------------------------------------------------------------------------|
| damage/dest<br>ruction of<br>private or<br>public<br>properties                         | or damage to<br>properties                                              | and tensions between the Proponent and the land/proper ty owners           | or intruding by project personnel               | owners or<br>occupiers of<br>land |                |                      | s/Occupiers of land or<br>custodian (Traditional<br>Authority) |                                                | on respecting people's properties. If persists then Code of Conduct to be implemented              |
|                                                                                         |                                                                         |                                                                            |                                                 | Environme                         | ental Pollutio | n (Littering)        |                                                                |                                                |                                                                                                    |
| Environment<br>al pollution<br>from solid<br>waste during<br>exploration<br>activities. | Scattered<br>litter                                                     | To prevent<br>littering of<br>the general<br>project<br>area               | No visible litter<br>around the<br>project area | Visual<br>observation             | Daily          | SHE Officer          | SHE Officer> Exploration<br>Manager                            | Visible<br>littering<br>around<br>project site | Clean-up of the affected areas and ensuring exploration workers utilise waste containers provided. |
|                                                                                         |                                                                         |                                                                            |                                                 | Si                                | te Rehabilitat | ion                  |                                                                |                                                |                                                                                                    |
| Soil and land<br>disturbance<br>because of<br>exploration<br>activities.                | Abandoned and stockpiled topsoil as well as very disturbed land surface | To prevent<br>major soil<br>and land<br>damage by<br>project<br>activities | No major soil and land disturbance              | Visual<br>observation             | Daily          | SHE Officer          | SHE Officer> Exploration<br>Manager                            | Visible soil<br>and land<br>disturbance        | Effective<br>progressive<br>backfilling of<br>topsoil and<br>rocks                                 |

#### APPENDIX 1: CHANCE FINDS PROCEDURE (AFTER KINAHAN, 2020)

Areas of proposed development activity are subject to heritage survey and assessment at the planning stage. These surveys are based on surface indications alone, and it is therefore possible that sites or items of heritage significance will be found during development work. The procedure set out here covers the reporting and management of such finds.

**Scope:** The "chance finds" procedure covers the actions to be taken from the discovery of a heritage site or item to its investigation and assessment by a trained archaeologist or other appropriately qualified person.

**Compliance:** The "chance finds" procedure is intended to ensure compliance with relevant provisions of the National Heritage Act (27 of 2004), especially Section 55 (4): "a person who discovers any archaeological .... object ......must as soon as practicable report the discovery to the Council". The procedure of reporting set out below must be observed so that heritage remains reported to the NHC are correctly identified in the field.

#### Responsibility:

**Operator:** To exercise due caution if archaeological remains are found.

**Foreman:** To secure site and advise management timeously.

**Superintendent:** To determine safe working boundary and request inspection.

**Archaeologist:** To inspect, identify, advise management, and recover remains.

#### Procedure:

Action by person identifying archaeological or heritage material

- a) If operating machinery or equipment stop work
- b) Identify the site with flag tape
- c) Determine GPS position if possible
- d) Report findings to foreman

#### Action by foreman

- a) Report findings, site location and actions taken to superintendent
- b) Cease any works in immediate vicinity

#### Action by superintendent

- a) Visit site and determine whether work can proceed without damage to findings
- b) Determine and mark exclusion boundary

c) Site location and details to be added to project GIS for field confirmation by an archaeologist

#### Action by Archaeologist

- a) Inspect site and confirm addition to project GIS
- b) Advise NHC and request written permission to remove findings from work area
- c) Recovery, packaging and labelling of findings for transfer to National Museum

#### In the event of discovering human remains

- a) Actions as above
- b) Field inspection by archaeologist to confirm that remains are human
- c) Advise and liaise with NHC and Police
- d) Recovery of remains and removal to National Museum or National Forensic Laboratory, as directed.

The competent authorities' contact details to report archaeological sites or objects (Exploration Manager and contractor) are as follows:

- National Heritage Council (NHC) of Namibia (061 244 375) or direct contact with the Regional Heritage Officers at the NHC 061 301 903
- National Museum (+264 61 276800),
- National Forensic Laboratory (+264 61 240461).