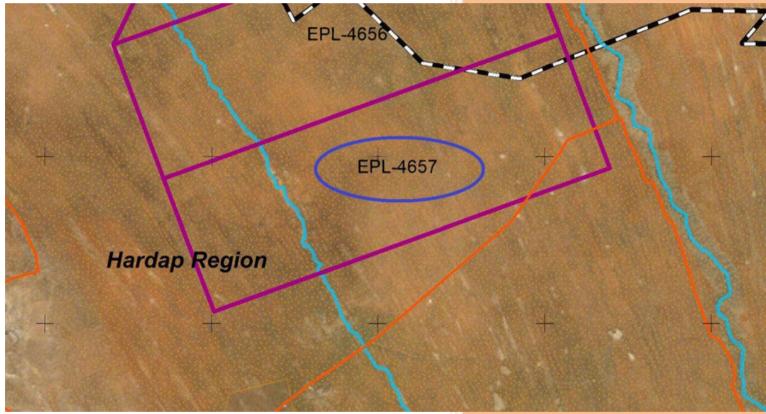
APP005828

2025

Updated Environmental Management Plan

Renewal of the Environmental Clearance Certificate for the Exploration Activities on Exclusive Prospecting Licence (EPL) No. 4657, in the Mariental/Gobabis Districts, Hardap/ Omaheke Regions







Environmental Management Plan

RENEWAL OF THE ENVIRONMENTAL CLEARANCE CERTIFICATE FOR THE EXPLORATION ACTIVITIES ON EXCLUSIVE PROSPECTING LICENCE (EPL) NO. 4657, IN THE MARIENTAL/GOBABIS DISTRICTS, HARDAP/OMAHEKE REGIONS

PROJECT DETAILS

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ABBREVIATIONS

Acquired Immuno-Deficiency Syndrome
Environmental Assessment
Environmental Clearance Certificate
Environmental Control Officer
Environmental Impact Assessment
Environmental Management Act
Environmental Management Plan
Government Gazette
Geographic Information System
Government Notice
Global Positioning System
Human Immuno-deficiency Virus
Interested and Affected Parties
National Heritage Council
Proponent's Representative
Regulation
Section
Tuberculosis

1 INTRODUCTION

Headspring Investments (Pty) Ltd (HSI) being the Proponent is proposing to renew the ECC for EPL 4657 which is situated in the Mariental and Gobabis Districts, Hardap and Gobabis Regions (Eastern Namibia). Mineral rights for EPL No. 4657 are under Headspring Investments (Pty) Ltd. EPL 4657 covers a total area of 74676.6336 Ha and the Proponent is exploring for nuclear fuels. The Ministry of Mines and Energy granted the EPL on 13 May 2022 until 12 May 2024, the EPL has been renewed by the Ministry of Mines and Energy on 17 February 2025 until 16 February 2027.

In 2018, the proponent had appointed Risk Based Solution CC to undertake the Environmental Impact Assessment (EIA) in order to obtain an Environmental Clearance Certificate (ECC) for the exploration activities on the EPL, from the Office of the Environmental Commissioner in the Ministry of Environment, Forestry and Tourism (MEFT). The ECC was issued in 2019.

Environmental Compliance Consultancy CC were subsequently appointed by HSI to apply for the renewal of the above ECC upon expiry in 2022. This ECC is now up for renewal (2025) and the proponent has appointed Environam Consultants Trading (ECT) to apply for the renewal of the ECC.

ECT hereby acknowledges the work previously carried out by Risk Based Solution and Environmental Compliance Consultancy.

This Environmental Management Plan (EMP) has been developed to manage possible impacts associated with the exploration phase. The EMP has been developed in terms of the Environmental Management Act No 7 of 2007, EMA regulations of 2012 and other relevant legislations binding to Namibia. According to the Environmental Management Act of 2007 and its regulations of 2012, mineral exploration is an activity which cannot be undertaken without an ECC.

The EMP is a legally binding document in terms of the provisions of the Environmental Management Act of 2007. The Proponent and its contractors must therefore adhere to the contents of this document.

An EMP is one of the most important outputs of the EIA process as it synthesises all of the proposed mitigation and monitoring actions, set to a timeline and with specific assigned responsibilities. This EMP details the mitigation and monitoring actions to be implemented during the following phases of this development:

• <u>Planning and Design</u> - the period, prior to construction, during which preliminary legislative and administrative arrangements, necessary for the preparation of the land, are made and engineering designs are carried out. The preparation of construction tender documents forms part of this phase;

- <u>Construction</u> the period during which the proponent, having dealt with the necessary legislative and administrative arrangements, appoints a contractor for the construction of services infrastructure, buildings as well as any other construction process(s) within the development areas;
- <u>Operation and Maintenance</u> the period during which the development will be fully functional, operational and maintained.
- <u>Decommissioning</u> the period at which activities on site have reached the end of economic viability and closure is imminent.

The EMP aims to take a pro-active route by addressing potential problems before they occur. The objectives of the EMP are therefore;

- To outline mitigation measures in order to manage environmental and socioeconomic impacts associated with the exploration phase
- Provide a framework for implementing the management actions recommended in the EIA for exploration activities.
- To ensure that the project will comply with relevant environmental legislations of Namibia and other requirements throughout its activities.

2 **PROJECT LOCATION**

Exclusive Prospecting License (EPL) 4657 is co-located in the Hardap and Omaheke regions. The license area spans a mix of privately owned commercial farmland and communal land in the Mariental and Gobabis Districts of Namibia. For precise geographic details, refer to Figure 1 (Location Map) and Table 1 (coordinates of EPL 4657).

EPL	Area (Hectares)	Coordinates				
		Middle	Corner 1	Corner 2	Corner 3	Corner 4
4657	74676.6336			23.956294°S 18.398897°E		

Table 1: Shows coordinates for EPL 4657

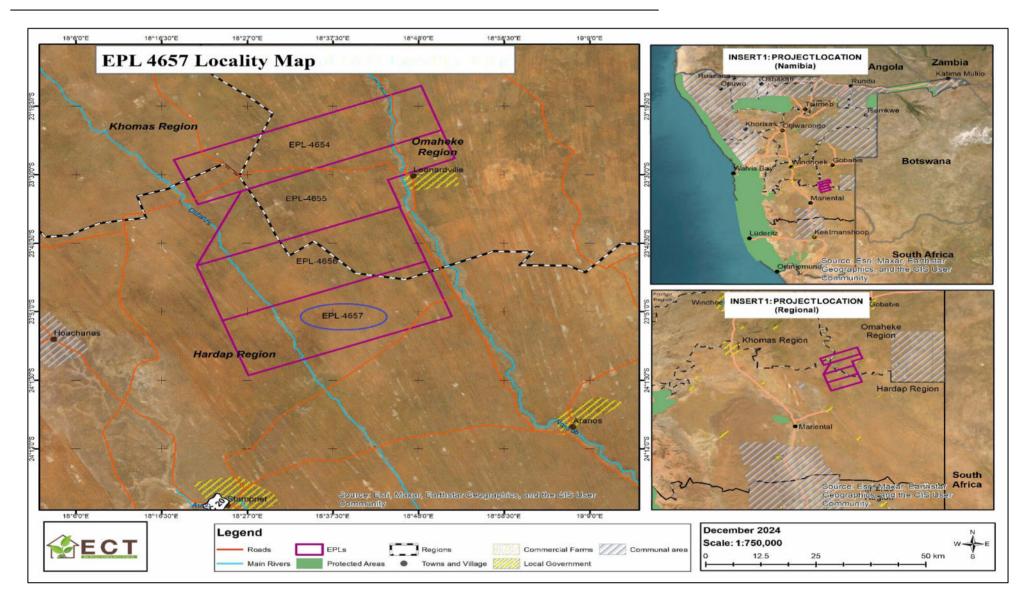


Figure 1: Locality Map of EPL4657

April 2025

3 OPERATIONAL ACTIVITIES

Table 2 outlines exploration activities conducted between 2019 and 2021. During this period, the Proponent employed exploration drilling, a technique used to identify new mineral prospects. This process involved drilling beneath the surface to extract cylindrical core samples at specified depths. Core samples, obtained via core drilling, provide critical insights into subsurface geology and help assess the presence and quality of mineral resources. After extraction, these samples were transported to the surface for analysis.

To ensure environmental responsibility, the Proponent **rehabilitated each drilling site** prior to moving to the next location. This involved sealing exploration wells with concrete from top to bottom (see **Appendix B: Sealed Exploration Wells**). Post-drilling, core samples were stored in a dedicated facility (referenced in **Appendix B: Storage Facility**) before being sent for **geochemical sampling and analysis** to evaluate mineral composition. These samples will in future be analysed at the Field Mobile Physical and Chemical Laboratory on Farm Tripoli 546.

Concurrently, the Proponent conducted **hydrogeological investigations** by drilling groundwater monitoring wells. Water samples were collected from these wells and tested to establish baseline groundwater conditions, including the presence of **radionuclides** or contaminants. These benchmarks will inform future groundwater assessments throughout the project lifecycle.

Additionally, **geophysical well logging** was performed during the exploration phase. This method involved lowering specialized probes into boreholes to collect continuous or discrete measurements of subsurface properties. Data transmitted electronically to the surface (via analog or digital signals) provide insights into:

- Physical and chemical characteristics of surrounding rock formations,
- Fluid properties within pore spaces and the borehole,
- Well construction integrity.

These measurements are critical for interpreting subsurface conditions and guiding subsequent project phases.

No exploration activities were conducted since 2021 to date on this EPL. Subsequently, no further exploration and drilling activities could be conducted due to the withdrawal of the drilling permits in November 2021 (see Appendix C). When the ECC is renewed, pending drilling permits from the Ministry of Agriculture, Fisheries, Water and Land Reform, the

Proponent plans to carry exploration activities which include; exploration drilling, hydrogeological drilling, core sampling, geophysical well logging and testing of hydrogeological wells for radionuclides.

Table 2: Operational activities

2019	2020	2021	2022 to 2025
 No exploration activities conducted 	 Exploration drilling Geophysical well logging Core sampling Hydrogeological drilling Water Analysis 	 Exploration drilling Geophysical well logging Core sampling Hydrogeological drilling Water Analysis 	 No exploration and drilling activities conducted, due to the withdrawal of the drilling permits in November 2021 (see Appendix C)

Table 3: Exploration and Hydrogeological/Monitoring boreholes drilled in 2020

License	HOLE ID	DEPTH	EAST_TRL	NORTH_TRL	RL_TRL	YEAR
EPL 4657	P14-04	161.40	266758.1660	7354683.1990	1220.0090	2020

Table 4: Exploration and Hydrogeological/Monitoring boreholes drilled in 2021

License	HOLE ID	DEPTH	EAST_TRL	NORTH_TRL	RL_TRL	YEAR
EPL 4657	P12-01	297.65	263580.8300	7367330.1280	1233.4570	2021
EPL 4657	P14-01	386.70	261642.0520	7352537.2090	1227.1510	2021
EPL 4657	P14-02	200.90	252656.3740	7349214.5390	1223.8120	2021
EPL 4657	P14-03	317.68	239983.2070	7344554.8560	1232.0570	2021

4 APPLICABLE LEGISLATION

Legal provisions that have relevance to various aspects of this development are listed in

 Table 5 below. The legal instrument and applicable corresponding provisions are provided.

LEGISLATION/POLICIES	RELEVANT PROVISIONS	RELEVANCE TO PROJECT
The Constitution of the	Article 91 (c) provides for duty	Sustainable development
Republic of Namibia as	to guard against "the	should be at the forefront of
Amended	degradation and destruction of	this development.
	ecosystems and failure to	
	protect the beauty and	
	character of Namibia."	
	Article 95(l) deals with the	
	"maintenance of ecosystems,	
	essential ecological processes	
	and biological diversity" and	
	sustainable use of the country's	
	natural resources.	
Environmental Management	Section 2 outlines the objective	The development should be
Act No. 7 of 2007 (EMA)	of the Act and the means to	informed by the EMA.
	achieve that.	
	Section 3 details the principle	
	of Environmental Management	

Table 5: Legal provisions relevant to this development

LEGISLATION/POLICIES	RELEVANT PROVISIONS	RELEVANCE TO PROJECT
EIA Regulations GN 28, 29,	GN 29 Identifies and lists	Activity 3.1 The
and 30 of EMA (2012)	certain activities that cannot be	construction of facilities for
	undertaken without an	any process or activities
	environmental clearance	which requires a licence,
	certificate.	right or other form of
	GN 30 provides the regulations	authorisation, and the
	governing the environmental	renewal of a licence, right
	assessment (EA) process.	or other form of
		authorisation, in terms of
		the Minerals (Prospecting
		and Mining Act), 1992.
		Activity 3.2 Other forms of
		mining or extraction of any
		natural resources whether
		regulated by law or not.
		Activity 3.3 Resource
		extraction, manipulation,
		conservation and related
		activities.
Convention on Biological	Article 1 lists the conservation	The project should consider
Diversity (1992)	of biological diversity amongst	the impact it will have on the
	the objectives of the	biodiversity of the area.
	convention.	
Draft Procedures and	Part 1, Stage 8 of the guidelines	The EA process should
Guidelines for conducting	states that if a proposal is likely	incorporate the aspects
EIAs and compiling EMPs	to affect people, certain	outlined in the guidelines.
(2008)	guidelines should be considered	
	by the proponent in the scoping	
	process.	
Namibia Vision 2030	Vision 2030 states that the	Care should be taken that the
	solitude, silence and natural	development does not lead to
	beauty that many areas in	the degradation of the natural
	Namibia provide are becoming	beauty of the area.
	sought after commodities and	
	must be regarded as valuable	
	natural assets.	

LEGISLATION/POLICIES	RELEVANT PROVISIONS	RELEVANCE TO PROJECT
Water Resources	To provide for the management,	The pollution of water
Management Act 11 of 2013	protection, development, use	resources should be avoided
	and conservation of water	during the operation of the
	resources.	development.
The Ministry of Environment,	MEFT has developed a policy on	The proponent and its
Forestry and Tourism (MEFT)	HIV and AIDS. In addition, it has	contractor have to adhere to
Policy on HIV & AIDS	also initiated a programme	the guidelines provided to
	aimed at mainstreaming HIV and	manage the aspects of
	gender issues into	HIV/AIDS. Experience with
	environmental impact	construction projects has
	assessments.	shown that a significant risk is
		created when construction
		workers interact with local
	The Art Last with the second term	communities.
Minerals (Prospecting and	This Act deals with the granting	Compliance to this instrument
Mining) Act 33 of 1992	of access to mineral resources.	is critical.
Labour Act no 11 of 2007	Chapter 2 details the	Given the employment
	fundamental rights and	opportunities presented by the
	protections.	development, compliance with
	Chapter 3 deals with the basic	the labour law is essential.
	conditions of employment.	
Public and Environmental Act	Section 3 prohibits persons from	Owner, contractors and
of 2015	causing nuisance.	employees have to comply
		with these legal requirements.
Nature Conservation	Chapter 6 provides for	Indigenous and protected
Ordinance no 4 of 1975	legislation regarding the	plants have to be managed
	protection of indigenous plants	within the legal confines.
Atmospheric Pollution	The Ordinance objective is to	All activities on the site will
Prevention Ordinance (No. 11	provide for the prevention of	have to take due consideration
of 1976).	the pollution of the	of the provisions of this
	atmosphere, and for matters	legislation.
	incidental thereto.	
Hazardous Substance	The ordinance provides for the	The waste generated on site
Ordinance, No. 14 of 1974	control of substances which may	and at the campsite should be
	cause injury or ill-health or	suitably categorized /
	death of human beings because	classified and disposed of
	of their toxic, corrosive,	properly and in accordance
	irritant, strongly sensitizing or	with the measures outlined in
	flammable nature.	the Ordinance and Bill.

LEGISLATION/POLICIES	RELEVANT PROVISIONS	RELEVANCE TO PROJECT
Roads Ordinance 17 of 1972	This Ordinance consolidates the	The provisions of this
	laws relating to roads.	legislation have to be taken
		into consideration in as far as
		access to the development site
		is concerned.
Roads Authority Act, 1999	Section 16(5) of this Act places	Some functions of the Roads
	a duty on the Roads Authority to	Ordinance 17 of 1972 have
	ensure a safe road system.	been assigned to the Roads
		Authority.
Petroleum Products and	This Act regulates the on-site	The storage of fuel for the use
Energy Act of 1990	storage of fuel amongst others	of machinery should adhere to
		the relevant legislation.
Heritage Act, 2004 (Act No.	The Heritage Act of 2004 makes	In an event that the Proponent
27 of 2004)	provision for the developer to	comes across any
	identify and assess any	archaeological or historical
	archaeological and historical	sites of significance, they
	sites of significance. The	should report immediately to
	existence of any such sites	the Monuments Council.
	should be reported to the	
	Monuments Council as soon as	
	possible. The Council may serve	
	notice that prohibits any	
	activities as prescribed within a	
	specified distance of an	
	identified heritage/archaeology	
	site.	

5 ROLES AND RESPONSIBILITIES

This Environmental Management Plan (EMP) shall clearly state the roles and responsibilities of all stakeholders to ensure that the EMP is fully implemented. The Proponent shall appoint an overall responsible person (Environmental Control Officer) to ensure the successful implementation of the EMP. The Environmental Control Officer needs to have qualifications and knowledge in environmental management implementation.

5.1 Competent Authority

The competent authority will be, the Department of Environmental Affairs: Ministry of Environment Forestry and Tourism. They will be responsible for the review and approval of

the updated EMP.

5.2 Proponent

The Proponent (Headspring Investments (Pty) Ltd), has the overall responsibility for all financial and work force provisions, which will facilitate the implementation of this EMP. The Proponent is responsible for the appointment of other personnel responsible for the implementation of this EMP.

The Proponent is ultimately responsible for the implementation of the EMP, from the planning and design phase to the decommissioning phase of this development, if the development is in future decommissioned. The Proponent will delegate this responsibility as the project progresses through its life cycle.

5.3 Exploration Manager

The Exploration Manager is required to carry out the overall responsibility for the implementation of the EMP and to ensure that all required resources and mechanisms for environmental management are in place. The responsibilities of the Exploration Manager will be:

- Ensure that the Proponent's responsibilities are executed in compliance with the relevant legislation;
- Ensure that all the necessary environmental authorizations and permits have been obtained;
- Assist the exploration contractor/s in finding environmentally responsible solutions to challenges that may arise;
- Should the EM be of the opinion that a serious threat to, or impact on the environment may be caused by the exploration activities, he/she may stop work; the proponent must be informed of the reasons for the stoppage as soon as possible;
- The EM has the authority to issue fines for transgressions of basic conduct rules and/or contravention of the EMP;
- Should the Contractor fail to show adequate consideration for the environmental aspects related to the EMP, the EM can have person(s) and/or equipment removed from the site or work suspended until the matter is remedied.

5.4 Health Safety and Environmental Officer (HSEO)

The HSEO is overall responsible of all environmental issues and safety of employees. The Proponent is to appoint a Health, Safety and Environment Officer (HSEO) with the following responsibilities with respect to the EMP implementation:

- Responsible of all environmental issues and safety of employees;
- Assist the EM in ensuring that the necessary environmental authorizations and permits have been obtained;
- Assist the EM and Contractor/s in finding environmentally responsible solutions to challenges that may arise;
- Carry out regular site inspections of all exploration areas with regards to compliance with the EMP; report any non-compliance(s) to the EM as soon as possible;
- Organize for an independent internal audit on the implementation of and compliance to the EMP to be carried out half way through each field-based exploration activity; audit reports to be submitted to the EM;
- Continuously review the EMP and recommend additions and/or changes to the EMP document;
- Monitor the Contractor's environmental awareness training for all new personnel coming on site; Keep records of all activities related to environmental control and monitoring; the latter to include a photographic record of the exploration activities, rehabilitation process and a register of all major incidents;
- Attend regular site meetings;
- The HSEO should record and report all incidents on site.

5.5 Environmental Control Officer (ECO)

Required to take independent responsibility of the implementation of this EMP. ECO is contracted to conduct periodic auditing of the sites, compilation of bi-annual and annual reports to be submitted to MEFT: DEA for renewal of the environmental clearance certificate.

5.6 Contractors and Subcontractors

All contractors, subcontractors and service providers are ultimately responsible for:

- Complying with the relevant legislation and EMP provisions;
- Provide Environmental; Method Statements to the Exploration Manager with regards to how certain activities on-site will be conducted;
- Adhering to environmental instructions issued by the EM;
- Arrange that all the contractor's employees receive training. Trainings have to be appropriate for the level of the tasks and functions undertaken.

The Environmental Method Statement referred to above will cover applicable details with regard to:

- Equipment to be used;
- Getting the equipment to and from site;

- How the equipment will be moved while on-site;
- How and where material will be stored;
- The containment (or action to be taken if containment is not possible) of leaks or spills of any liquid or material that may occur;
- Identified potential impacts of the activity and mitigation measures thereof;
- Compliance/non-compliance with the Environmental Specifications; and
- Any other information deemed necessary by the EM.

5.7 Employees

Required to follow instructions as directed by the EM. Report any potential environmental issues to the EM, HSEO or supervisor at site.

6 MANAGEMENT ACTIONS

The following tables form the core of this EMP for the exploration phase. The Proponent should continue to implement the proposed mitigation measures during the exploration phase. If the need arises, the Proponent can add additional measures to the EMP as the aim is to protect the environment. The below information shown in the tables, should be used as a checklist for environmental monitoring and auditing on site.

6.1 Management of Negative Impacts Associated with Exploration Phase:

6.1.1 Impact on landscape

Impact	Description	Mitigation Measures	Project	Responsibility
			Phase	
Landscape	 The scenery view of the site might be affected by clearing vegetation to pave way for the following activities: Establishment of exploration camps Exploration drilling Hydrogeological drilling Clearing for access roads 	 Removed rocks and soil should be replaced back and levelling of the area done so as to try to restore the area to its natural state. Do not cut down vegetation unnecessary around the site. Maximise on using existing roads and minimise on creating new access roads, no off-road that could result in land scarring is allowed. Minimise the presence of secondary structures: remove inoperative support structures. Remove all infrastructure and reclaim, or rehabilitate the project site after exploration activities are completed. 	Exploration Phase	 Proponent Exploration Manager HSEO Contractor & Subcontractors Appointed Environment al Control Officer

6.1.2 Impact on fauna

Impact	Description	Mitigation Measures	Project Phase	Responsibility
Impact Fauna	DescriptionNoise generated from the following exploration activities might disturb animals:- Drilling activities- Drilling activities- Movement of vehicles- Walking and talkingIn addition, wild animals 	 Poaching of wildlife and indiscriminate killing of perceived dangerous species (e.g., snakes, etc.) shall not be allowed. A drilling interval should be established, used and adhered to. Working hours should be limited to minimum of 8 hours per day. Noise should be addressed and mitigated at an early stage. Proper and timely maintenance of machineries and vehicles to prevent noise. Avoid driving randomly rather stick to permanently placed roads/tracks. This would minimise the effect on localised potentially sensitive habitats in the area. Stick to speed limits of maximum 30km/h as this would result in fewer faunal road mortalities. Avoid disturbance of habitat areas such as big trees, boulders, rocky outcrops as these areas serve as habitat for a myriad of fauna. 	-	Responsibility • Proponent • Exploration Manager • HSEO • Contractor • Environmental Control Officer
		 Prevent and discourage fires as this results in loss of grazing & fauna mortalities. No foodstuff should be left lying around as this will attract animals which might result in human-animal conflict. 		

6.1.3 Vegetation Loss

Impact	Description		Projec t Phase	Responsibility
Impact Vegetation Loss	Description Clearing of vegetation will be done to pave way for the following activities: - Exploration drilling - Hydrogeological drilling - Exploration camps - Access roads However, no massive clearing shall be done. Existing roads shall be used and new roads shall only be created when there is need. In cases that vegetation is removed this will cause habitat	 Protected plant species shall not be removed 	t	 Responsibility Proponent Exploration Manager HSEO Contractor Environmen tal Control Officer
	removed this will cause habitat destruction for both ground dwelling species and tree dwelling species. The ecosystem food chain on and around the area will also be broken. The Proponent should continue to safeguard the flora of the area so as to prevent habitat destruction for both ground and tree habitants.	grazing land and also the itora.		

6.1.4 Impact of waste

Impact	Description	Mitigation Measures	Project Phase	Responsibility
Impact of waste	Waste generated might either be general or hazardous waste. General waste includes papers, food leftovers etc while hazardous waste includes oil leaks and spills.	 Burial of waste within the EPL area shall not be allowed, all generated waste must be disposed at an approved municipal waste disposal site. Strictly, no burning of waste on the site shall be allowed as it possess environmental and public health impacts. Minimize solid waste generated on site 	Exploration Phase	 Proponent Exploration Manager HSEO Contractor & subcontractor
		 (reduce, reuse, or recycle). Excavation waste should be re-used or backfilled. Portable toilets and ablution facilities must be provided on site and should not be located close to Ephemeral Rivers or visible discontinuities (fractures, joints or faults). Provide waste disposal bins and never dispose of hazardous waste in the bins intended for general waste. No littering shall be allowed. Hazardous Waste 		 Environmental Control Officer
		 Machinery should be well maintained to prevent oil leaks. Contractor should only be allowed to store oil/fuel. 		

 on site provided the site store has containment to prevent oil/fuel permeating into the soil in cases of spillages. Contaminated wastes in the form of soil, litter and other material must be disposed off at an appropriate disposal site. Servicing of machinery or vehicles on site shall not be allowed. Use drip trays to capture oil drips and spills from machinery or vehicles.

6.1.5 Impact on surface and groundwater

Impact	Description	Mitigation Measures	Project Phase	Responsibility
Surface and groundwater	Within the EPL there is a pan. Possible sources which might cause pollution include; oil and fuel leakages from vehicles and drilling machines thus if spillages happen in large volumes or frequently. Drilling activities might interact with the water table hence the need for hydrogeological wells to monitor for any contamination.	 monitor groundwater. Conduct water sampling tests to use as a benchmark. 	Phase Exploration Phase	 Proponent Exploration Manager HSEO Contractor & subcontractor Environmental Control Officer

6.1.6 Air quality

Impacts	Description	Mitigation Measures	Projec t Phase	Responsibility
Air quality	 Sources of air quality pollution will be; Dust from vehicles and drilling machinery. Emissions from vehicles and drill rigs. People at risk are likely to be exploration personnel working on the immediate surrounding. Accumulation of dust might lead to respiratory problems. 	 Soil watering when soil works are being executed and where dust is emitted Control speed and operation of exploration vehicles. Prohibit idling of vehicles. Workers should be provided with dust masks if working in sensitive areas. Regular monitoring to ensure safe operation. 	Exploration Phase	 Proponent Exploration Manager HSEO Contractor & subcontractor Environmental Control Officer

6.1.7 Impact on soil

Impact	Description	Mitigation Measures	Projec t Phase	Responsibility
Soil	Soil will be disturbed during drilling and also it might be affected by oil or fuel	 After completion of exploration activities removed soil layers must be replaced and 	Exploration Phase	Proponent Evaluation
	leakages from machines and vehicles. However, comparing with trenching,	levelling must be done so that the original condition is restored.	Filase	 Exploration Manager HSEO
	drilling does not cause significate impact on the soil.	 Proper care should be taken so that there is no spill that would cause soil contamination. If any hazardous waste is produced it should be properly handled and sent for disposal to appropriate disposal areas. 		 Contractor & subcontractor Environmental Control Officer

6.1.8 Noise

Impacts	Description	Mitigation Measures	Project Phase	Responsibility
Noise	 Noise might be generated from: Drilling activities Frequent movement of vehicles The Proponent should continue to safeguard against noise as excessive noise can affect exploration personnel and animals. High noise levels can inhibit worker communication; reduce productivity and increase the chances of accidents. Prolonged exposure to excessive noise can result in permanent hearing loss and health problems such as sleep disturbance. However, farm owners are unlikely to be affected given that the exploration activities are conducted far from the farm houses.	 A drilling interval will be established, used and adhered to. Working hours should be limited to minimum of 8 hours per day. Noise should be addressed and mitigated at an early stage. Proper and timely maintenance of machineries and vehicles. Employees to be equipped with ear protection equipment. Limit vehicle movements and adhere to speed limits. National or international acoustic design standards must be followed. 	Exploration Phase	 Proponent Exploration Manager HSEO Contractor & subcontractor Environmental Control Officer

6.2 Management of Socio-Economic Impacts Associated with Exploration Phase

6.2.1 Occupational Health and Safety

Impact	Description	Mitigation Measures	Project Phase	Responsibility
OHS	Noise, dust, occupational stress,	 Conduct Hazard identification and risk assessments 	Exploration	Proponent
	working in hot environments,	 Comply with all Health and Safety standards specified in the 	Phase	Exploration
	bushfires, ionising radiation and	Labour Act.		Manager
	remoteness of exploration area	 Provide all staff on site with relevant and adequate 		HSEO
	are some of the occupational	protective clothing and equipment (helmets, gloves,		■ Contractor &
	hazards associated with the	respirators, work suits, earplugs, goggles and safety shoes		subcontractor
	exploration phase.	where applicable).		 Environmental
		 Use of dust suppression measures. 		Control
	To note, currently the	 Reduce noise exposure by isolating noisy equipment and 		Officer
	exploration personnel are	rotate tasks.		
	mainly exposed to natural	 Provision of First Aid at the site 		
	radiation of the area. However,	 Provisions of immediate accident/incident reporting and 		
	precautions are being taken for	investigation.		
	personnel working with Core	 Safety Posters and slogans should be exhibited at 		
	samples. The personnel carry	conspicuous places.		
	radiometers to measure the	 Employer should allocate time for employees to visit their 		
	intensity of the natural	families.		
	radiation levels so as to	 No person under the influence of alcohol or drugs is allowed 		
	determine whether it is safe to	to work on site.		
	work within the area.	 Train workers on personal safety and disaster preparedness. 		
		 Continuous and vigilant monitoring of the radiation levels. 		

6.2.2 Damage to roads

Impact	Description	Mitigation Measures	Project Phase	Responsibility
Damage to roads	Frequent movement of vehicles and machinery have the possibility of degrading the existing roads.	 Do not drive randomly throughout the area Where access roads have to be established, the routes should be selected causing minimal damage to the environment - e.g. use the same tracks; cross drainage lines at right angles; avoid placing tracks within drainage lines; avoid collateral damage (i.e. select routes that do not require the unnecessary removal of trees/shrubs, especially protected species). No drilling equipment allowed on farms during the rainy season. Leave vehicles on tracks and walk to point of interest, when possible. Rehabilitate new tracks created. 	Exploration Phase	 Proponent Exploration Manager HSEO Contractor & subcontractor Environmental Control Officer

Impact	Description	Mitigation Measures	Project Phase	Responsibility
Impacts	Establishment of camps and associated	 Select camp sites and other temporary lay over 	Exploration	Proponent
associated	camping results in effects such as	sites with care - i.e. avoid important habitats	Phase	Exploration
with camping	clearing of vegetation and in some	(e.g. raptor breeding sites).		Manager
of	cases poor housekeeping and fires.	 No visitors allowed 		 HSEO
exploration		 Ablution facilities to be provided in the form of 		Contractor
staff		portable toilets.		subcontractor
		 Good housekeeping. 		 Environmental
		 No poaching or collecting of unique plants 		Control
		(e.g., various Aloe and Lithop).		Officer
		 Smoking and drinking alcohol shall not be 		
		allowed on sit.		
		 Remove and relocate slow moving vertebrate 		
		fauna to suitable habitat elsewhere on property		
		 Avoid the removal and/or damaging of 		
		protected flora and big trees.		
		 Ensure that adequate firefighting equipment is 		
		available at camp sites and clear kitchen areas		
		to avoid accidental fires.		
		• Exploration personnel should aim to protect the		
		environment.		

6.2.3 Impacts associated with camping of exploration staff

6.2.4 Heritage impact

Impact	Description	Mi	tigation Measures	Projec	Responsibility
				ر Phase	
Heritage impact	At the site, there are no known	•	All works are to be immediately ceased	Exploration	 Proponent
	heritage areas or artefacts deemed to		should an archaeological or heritage	Phase	 Exploration
	be impacted by the exploration		resource be discovered.		Manager
	activities.	•	The National Heritage Council of Namibia		 HSEO
			(NHCN) should advise with regards to the		
			removal, packaging and transfer of the		
			potential resource.		

6.2.5 Risk and spread of HIV/AIDS

Impacts	Description	Mitigation Measures	Project Phase	Responsibility
HIV/AIDS	Even though a few people are employed	 Employer should allocate time for 	Exploration	 Proponent
	at this stage (exploration), the disease	employees to visit their families.	Phase	 Exploration
	might still spread hence the need for	 Free distribution of condoms. 		Manager
	continuous sensitisation.			 HSEO
				 Contractor & subcontractor

6.2.6 Population Influx

Impacts	Description	Mi	tigation Measures	Project Phase	Responsibility
Population Influx	Headspring Investments (Pty) Ltd has its exploration personnel and it also contracts local companies for drilling and other activities associated with exploration. This has an effect of increasing the number of people in the area. Security might also be compromised given that new people from different areas will come either in search of work or offering different services.	•	Local employment should be a priority so as to reduce the number of outsiders. Contractors should submit a code of conduct and disciplinary actions should be in accordance with Namibian legislation. An access agreement to be signed prior to exploration. No gates to be left open or fences damaged An identification document with all exploration staff to be supplied to farm owners prior to exploration. All staff to carry identification badges.	Exploration Phase	 Proponent Exploration Manager HSEO Contractor & subcontractor

6.3 Positive Impacts Associated with the Project

6.3.1 Employment creation

Impact	Description	Enhancement Required	Project Phase	Responsibility
Employment creation	Currently the Proponent employed the exploration personnel which include; the exploration manager, mine manger, geologist etc. The Proponent also contracted local companies to carry out drilling activities. In addition, locals are also benefiting as they are being employed on non- skilled jobs. The Proponent is also currently renting accommodation for its employees hence indirectly creating employment for locals in this remote area. Even though a few people are currently employed during the exploration phase, if medium to minable deposits are found and mining activities start, many people will be employed. This project therefore is definitely going to be beneficial in	 Employ locals in all casual labour and ensure gender equality. Equity, transparency, to be put into account when hiring and recruiting. 		Proponent
	future.			

6.3.2 Social responsibility

Impact	Description	Enhancement Required	Projec	Responsibility
		 	Phase	
Social	Headspring Investments (Pty) Ltd	Continue promoting community E	Exploration	 Proponent
responsibility	participates in community development programmes.	development programmes.	Phase	

6.3.3 Generation of Revenue

Impact		Description	Enhancement Required	Projec t	Responsibility
				Phase	
Generation	of	Headspring Investments (Pty) Ltd pays tax	 The Proponent, Contractors and 	Exploration	 Proponent
Revenue		hence generating revenue.	subcontractors to pay taxes as stipulated by the law of Namibia.	Phase	 Contractor & subcontractor

Impact	Description	Mitigation Measures	Project Phase	Responsibility
Post- exploratio n stage	The stage of exploration is expected to have minimum damage to the environment as compared to mining. However, the major issue which need to be looked after the phase of exploration is how the project has impacted the environment. To note, current measure already in place include backfilling and sealing the exploration wells thus after exploration of the site. The exploration team will only move to the next site after rehabilitating the area they have been working on. A general consensus is made between the landowner and Proponent if the land has been rehabilitated well.	 contoured to a stable angle of repose. Remove all exploration temporary structures on site and ensure the area is left clean. Water sampling results for the exploration phase should be available and an analysis should be done to check if groundwater was impacted. Rehabilitate any area disturbed by the exploration activities. 	Post-exploration Phase	Proponent

6.3 Management of Impacts at Post-Exploration Phase

7 ENVIRONMENTAL MONITORING

A monitoring programme will be in place to ensure conformance with the EMP. The Environmental Control Officer will ensure compliance with the EMP, and carry out monitoring/auditing activities. The Environmental Control Officer must have the appropriate experience and qualifications to undertake the necessary tasks. The Environmental Control Officer will report to the Proponent should any non-compliance be evident or corrective action necessary. The Proponent may opt to engage the services of an independent Environmental Consultant to undertake the monitoring and auditing activities. The suggested monitoring details are outlined in Table 6 below.

IMPACTS	RECEPTORS	TYPE OF MONITORING	PERIOD/TIME
Alternation of existing landscape	Environment	 Inspections 	During and after drilling
Dust	Employees	 Regular site inspections 	■ Daily
Impact on fauna	Environment	 Inspections 	Period of drilling
Surface & groundwater Pollution	Environment	 Hydrogeological tests 	 During and after activities that interact with underground and surface water bodies
Noise	Employees & Fauna	 Noise monitoring 	■ Daily
Vegetation loss	Environment	 Inspection of protected plant species and big trees and incorporate them into the development 	 Period of establishing exploration camps Period of drilling Period of creating access roads.
Heritage	Land	 Inspection 	Period of exploration
0.H. S	Employees	 Site inspection Conducting Hazard and Risk Assessments 	■ Daily
Impact on soil	Environment.	 Site inspections 	Period of exploration
Generation of waste (solid)	Land	 Site inspection on housekeeping Regular collection of waste 	■ Daily ■ Weekly
HIV/AIDS	Employees	Free testing	Annually

8 CONCLUSION

It is recommended that the application for renewing the Environmental Clearance Certificate (ECC) for EPL 4657 be approved, conditional upon rigorous implementation of the Environmental Management Plan (EMP). Adherence to the EMP will mitigate potential environmental impacts and ensure compliance with regulatory standards. The applicant bears responsibility for ensuring the EMP is contractually binding for all contractors involved and for enforcing its provisions as a mandatory on-site reference. Any party found in violation of the EMP must bear responsibility for necessary rehabilitation measures, including costs and corrective actions.

8.1 **RECOMMENDATIONS**

The following recommendations have been brought forward:

- Environmental monitoring by an independent environmental consultancy must be carried out during the exploration phase to monitor environmental compliance.
- Bi- annual and annual reports should be written and submitted to MEFT.
- These monitoring reports should accompany the application for renewal of the environmental clearance certificate after 3 years

9 **REFERENCES**

- 1. Constitution of the Republic of Namibia Act No 1 of 1990, Namibia: [Online] Available from: https://nan.gov.na/acts
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- 12. Public Health and Environmental Act 2015, Namibia: [Online]Availablefrom:_http://www.lac.org.na/index.php/laws/statutes/
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Appendix A - Old ECC

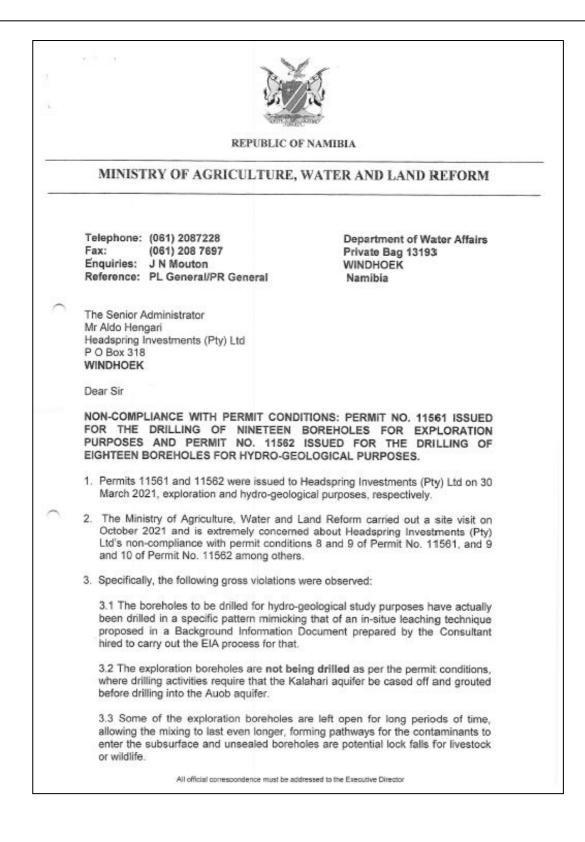
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MINI	STRY OF ENVIRONMEN	NT, FORESTRY AND TOURISM
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		ivestments (Pty) Ltd t 318, Windhoek
	TO UNDERTAKE THE FOL	LOWING LISTED ACTIVITY
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	CONDITIONS OF APPROVAL
1	. This environmental clearance is valid for a period of 3 (three) years, from the date of issue unless withdrawn by this office
2	This certificate does not in any way hold the Ministry of Environment, Forestry and Tourism accountable for misleading information, nor any adverse effects that may arise from these activities. Instead, full accountability rests with the proponent and its consultants
	 This Ministry reserves the right to attach further legislative and regulatory conditions during the operational phase of the project
	All applicable and required permits are obtained and mitigation measures stipulated in the
0.	EMP are applied particularly with respect to management of ecological impacts.
6	Strict compliance with national heritage guidelines and regulations is expected throughout
~	the life-span of the proposed activity, therefore any new archaeological finds must be
	reported to the National Heritage Council for appropriate handling of such.
	reparce to the National Heritage Council of appropriate Heritaling of Solid

Appendix B - Site Images



Appendix C - Supporting Documents



2. 3.4 For the hydro-geological study boreholes, a plain steel casing is installed to the depth of 60m, way above the Rietmond Layer (blue shale). The Kalahari aquifer was struck below the 70m in almost all the boreholes, while the Auob aquifer below 100m. The cementing is done only later after PVC casing installation and gravel packing. 4. Additionally, 4.1 You have not made the permit conditions available to the drilling contractors, hence the driller, almost if not all of whom where drilling in the area for the first time, and not registered with this Ministry, were not aware of the special drilling specifications for the Stampriet Artesian aquifer system. 4.2 At least 70 more boreholes have been drilled for exploration purposes without a valid permit. 4.3 At least 7 more boreholes have been drilled for hydro-geological study purposes without a valid permit. 5. Based on the above gross violations and non-compliance of permit major conditions Permit No. 11561 and Permit No. 11562 is hereby withdrawn as per condition number, 5(a) and 6(a) respectively, with immediate effect and no further drilling is permitted. 6. You are requested to submit all information as per permit conditions 8.8 for Permit No. 11561 and 9.11 for Permit No. 1156. You are advised to consult Mr. B Swartz (Tel. 061-2087089) of the Geohydrology Division in the Directorate of Water Resources Management in this Ministry for further information. 7. Immediately return Permit No. 11561 and Permit No. 11562 dated 18 March 2021 back to this Ministry for cancellation. REPUBLIC OF RAMEIA MINISTRY OF AGRICULTURE, WATER AND LAND REFORM 0 9 NO / 121 Private Bag 12104 VA is of Water Romanne Ma Percy W. Misika EXECUTIVE DIRECTOR