



Submitted to: Elevate Uranium (Pty) Ltd.
Attention: Mr Murray Hill

Suit 2. 5 Ord Str P O Box 91193, Klein Windhoek Windhoek. Namibia

REPORT:

EXPLORATION ACTIVITIES ON EPL 6987-COMPLIANCE REPORT

PROJECT NUMBER: ECC-79-256-REP-37-A

REPORT VERSION: REV 01

DATE: 20 JUNE 2022



Elevate Uranium (Pty) Ltd.

TITLE AND APPROVAL PAGE

Project Name: Exploration Activities on EPL 6987– Compliance Report

Client Company Name: Elevate Uranium (Pty) Ltd. – Marenica Ventures (Pty) Ltd

Client Name: Mr Murray Hill Ministry Reference: APP-0010349

Authors: Environmental Compliance Consultancy

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ENVIRONMENTAL COMPLIANCE CONSULTANCY CONTACT DETAILS:

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DISCLAIMER

Environmental Compliance Consultancy (ECC) (Reg. No. CC 2013/11401) has prepared this scoping report and the preliminary EMP on behalf of the Proponent. This report has been authored by employees of ECC, who have no material interest in the outcome of this report, nor do any of the ECC team have any interest that could be reasonably regarded as being capable of affecting their independence in the preparation of this report. ECC is independent from the Proponent and has no vested or financial interest in the Project, except for fair remuneration for professional fees rendered based upon agreed commercial rates. Payment of these fees is in no way contingent on the results of this report or the assessment, or a record of decision issued by Government. No member or employee of ECC is, or is intending to be, a director, officer, or any other direct employee of the Proponent. No member or employee of ECC has, or has had, any shareholding in the Proponents company or project. Any personal views or opinions expressed by the writer may not necessarily reflect the views or opinions of Environmental Compliance Consultancy or its client.

Please note at ECC we care about lessening our footprint on the environment; therefore, we encourage that all documents are printed double sided.



Elevate Uranium (Pty) Ltd.

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TERMS AND ABBREVIATIONS

ABBREVIATIONS	DESCRIPTION
ASX	Australian Securities Exchange
DEA	Directorate of Environmental Affairs
ECC	Environmental Compliance Consultancy
EIA	environmental impact assessment
EMP	environmental management plan
EPL	Exclusive Prospecting Licence
MEFT	Ministry of Environment, Forestry and Tourism
MRE	Mineral Resource Estimates
RAB	Rotary Air Blast drilling
RC	Reverse circulation drilling
U-pgrade™	Elevate Uranium developed a uranium concentration process



Elevate Uranium (Pty) Ltd.

1 INTRODUCTION

1.1 COMPANY BACKGROUND

Elevate Uranium Limited is an Australian Securities Exchange (ASX) Listed company. Elevate Uranium developed a uranium concentration process (U- $pgrade^{TM}$) that is unique and ground-breaking, lowering the extraction cost of uranium and significantly reducing potential environmental effects associated with the reduced mass of ore to be leached. This U- $pgrade^{TM}$ process can be applied to surficial uranium deposits of which Elevate Uranium is exploring.

Marenica Ventures (Pty) Ltd (Marenica Ventures) is a wholly owned subsidiary of Elevate Uranium Limited (Elevate Uranium). Marenica Ventures holds Exclusive Prospecting Licence (EPL) 6987 referred to as the Koppies project.

Environmental Compliance Consultancy (ECC) has been retained by Elevate Uranium (Pty) referred to hereinafter as the Proponent to prepare the application to renew the environmental clearance certificate. The Proponent currently holds a valid environmental clearance certificate for exploration activities on EPL 6987, for which a renewal is being applied. As part of this application, an environmental compliance audit has been undertaken to determine the status of compliance with the environmental management plan.

The project is located in the Erongo Region. The licence area is located located within the Namib Naukluft National Park and is situated approximately 25 kilometres from the Langer Heinrich Uranium Mine and 90 kilometres from the coastal town of Swakopmund, see



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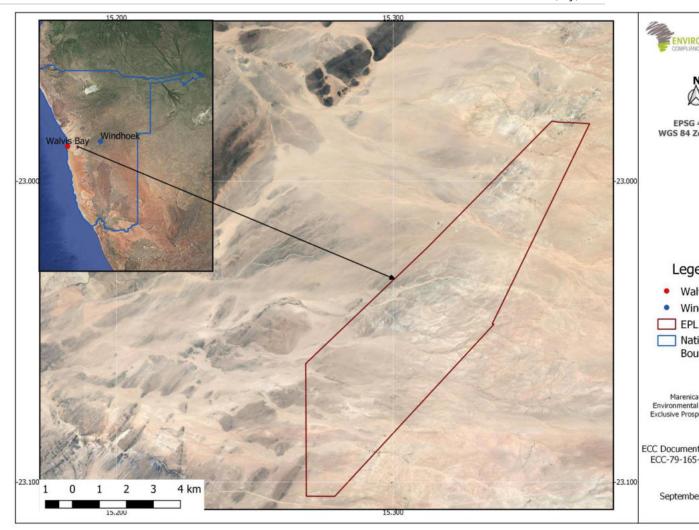


Figure 1.



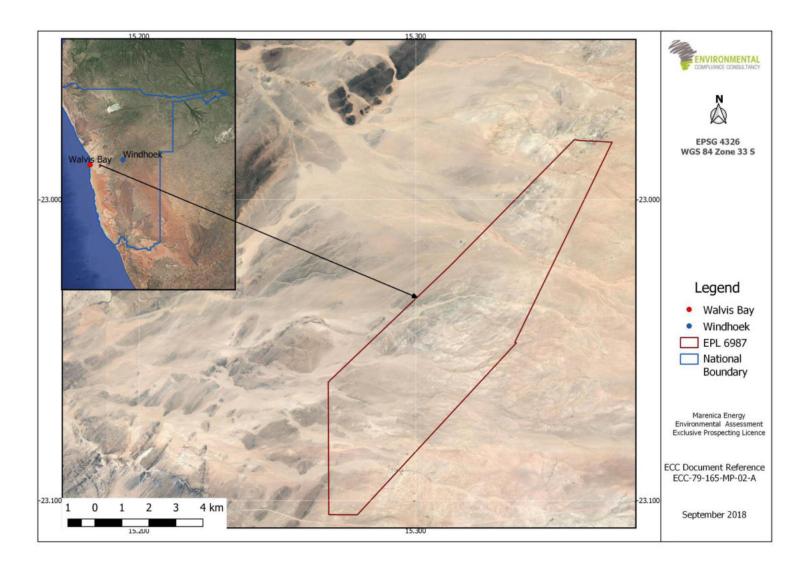


Figure 1 - Project location



Elevate Uranium (Pty) Ltd.

1.2 The proponent of the proposed project

Elevate Uranium (Pty) Ltd is the Proponent for the project. The Proponents' details are provided in Table 1.

Table 1 - Proponents details

Company Representative:	Contact Details:
Mr Murray Hill	Elevate Uranium (Pty) Ltd:
(CEO)	PO Box 91193, Klein Windhoek
	Windhoek
	Murray.hill@elevateuranium.co.au
	+264 (81) 669 7608

1.3 ENVIRONMENTAL ASSESSMENT PRACTITIONER

Environmental Compliance Consultancy (ECC) (Reg. No. CC 2013/11401) has prepared this renewal report and the preliminary EMP on behalf of the Proponent.

This report has been authored by employees of ECC, who have no material interest in the outcome of this report, nor do any of the ECC team have any interest that could be reasonably regarded as being capable of affecting their independence in the preparation of this report. ECC is independent from the proponent and has no vested or financial interest in the project, except for fair remuneration for professional fees rendered based upon agreed commercial rates. Payment of these fees is in no way contingent on the results of this report or the assessment, or a record of decision issued by Government. No member or employee of ECC is, or is intending to be, a director, officer, or any other direct employee of Elevate Uranium. No member or employee of ECC has, or has had, any shareholding in Elevate Uranium.

All compliance and regulatory requirements regarding this report should be forwarded by email or posted to the following address:

Environmental Compliance Consultancy PO Box 91193, Klein Windhoek, Namibia

Tel: +264 81 669 7608

Email: info@eccenvironmental.com







1.4 Purpose of Report

The purpose of this report is to document the findings of an environmental compliance audit, which accompanies the renewal application for the environmental clearance certificate for EPL 6987

The approved EMP for the existing environmental clearance certificate is audited to monitor the proceeds of the project and ensure that all measures stipulated in the document are met and effectively adhered to, as required by the Department of Environmental Affairs (DEA). In an event where the project activities are altered, the EMP is required to be revised and amended accordingly.

As per the Environmental Management Act, No. 7 of 2007 and its EIA Regulations of 2012, exploration activities on EPL 6987 cannot be undertaken without a valid environmental clearance certificate. The exploration activities at EPL 6987 proposes to assess the viability of nuclear fuels, namely uranium that can be found in the EPL 6987 area. The proposed methods of exploration have minimal impacts, as they are done on a small scale and rehabilitation of the natural vegetation will be done as per the approved EMP.



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2 BACKGROUND TO EPL 6987

EPL 6987 was granted to Marenica Ventures 10 April 2019, an environmental clearance certificate was issued to Marenica Ventures by the Ministry of Environment, Forestry and Tourism (MEFT) on the 19 June 2019, with exploration commencing in July 2019. The licence holding was transferred from Manmar Investments One Eight Two (Pty) Ltd to Marenica Ventures (Pty) Ltd on 28 April 2020, however this change has not been updated on the Ministry of Mines and Energy mining cadastre portal.

EPL 6987 is located within the Namib Naukluft National Park. The licence is held for nuclear fuel minerals, and uranium is the target for exploration activities, in particular calcrete hosted uranium suitable for application of Elevate Uranium's *U-pgradeTM* process. EPL 6987 covers 49 square kilometres and is situated approximately 25 kilometres from the Langer Heinrich Uranium Mine and 90 kilometres from the coastal town of Swakopmund.

The current EPL area of 4928 hectares has yielded two deposits. Elevate Uranium consider the entire area to be highly prospective to host other uranium mineralisation and a size reduction would potentially compromise the exploration for, and future development of, any mineral discovery.

EPL 6987 (Koppies) was the first of Elevate's strategically located tenements in the Namib Desert region of Namibia, to be explored. Exploration and subsequent resource drilling have identified a 20 Mlb uranium resource less than 20m in depth. Uranium mineralisation identified within the palaeochannels is calcrete hosted. An initial JORC Inferred Resource of 20.3 Mlb U_3O_8 has been estimated at Koppies. There is significant potential for expansion of the resource beneath and adjacent to the palaeochannels. The Proponent wishes to continue with exploration activities on Exclusive Prospecting Licence (EPL) 6987 for nuclear fuels.

2.1 Renewal activities

The proposed project is for the exploration of base, rare and precious metals and industrial minerals. As part of the proposed exploration project, the following activities are envisaged, which shall be further defined as the exploration program is refined:

Work planned for second period of tenure (April 2022 to April 2024) includes:

- Additional HLEM surveys to better define palaeochannels outside the areas already drilled, particularly in the northern portion of the tenement
- Exploration drilling in areas outside the Koppies I and II resource areas
- Diamond drilling (approx. 170 m) to provide samples for density determination, mineralogical study, geochemistry, and disequilibrium analysis.
- Wireline density logging of these holes
- Mineral Resource Estimates (MRE) for the Koppies I and II deposits



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- If the results of the MRE warrant, infill drilling will be undertaken at Koppies I and II in order to increase the confidence level from "inferred" to "indicated" status
- A total of 5,000 m of RC drilling for exploration and infill drilling at the two deposits
- Metallurgical testwork program using the *U-pgradeTM* process could be included
- Feasibility study conditional on MRE outcome

Report

Exploration Activities on EPL 6987- Compliance

Elevate Uranium (Pty) Ltd.

3 ENVIRONMENTAL COMPLIANCE AUDIT

3.1 SITE INSPECTION

3.1.1. Bi-annual monitoring

An environmental report is submitted to the Ministry of Environment, Forestry and Tourism biannually reporting on periods from January to June and July to December. These reports report on compliance with regards to the activities taking place on-site, roads or tracks made or used, accommodation structures and infrastructure erected, any rehabilitation done, and any incidents of conflict reported.

3.1.2 Activities for the monitoring period

Elevate Uranium has undertaken a substantial program of exploration within EPL 6987 in 2021 and as a result discovered two calcrete-hosted uranium deposits at Koppies I and Koppies II.

Work carried out in the first period of tenure (10 April 2019 to 9 April 2022) included:

- Reprocessing of historical airborne electromagnetic (EM) data to detect buried paleochannels prospective for uranium
- 46-line kilometres of horizontal loop EM surveying to define paleochannels in areas where the airborne EM response was weak or absent
- Drilling of 698 drill holes (5,797 m) mainly at the Koppies I and II deposits
- Downhole gamma logging of most of the 698 drill holes, to estimate uranium grade





Figure 2 - RAB drilling at Koppies



Figure 3 - Rehabilitation of RAB holes

3.2 ANNUAL COMPLIANCE AUDIT

Furthermore, the approved EMP covers all adverse environmental impacts, including any additional potential impacts that may result from the exploration activities at EPL 6987. The EMP provides the technical details for each mitigation, monitoring and institutional measure,



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including the impact(s) to which it relates and the conditions when required, together with designs, equipment descriptions and operating procedures as granted.

3.3 COMPLIANCE AUDIT FINDINGS

This section outlines the findings of the environmental audit completed for the project. It addresses obligations in terms of the key Acts that govern the activities on site, the commitments made in the EMP, and present the findings and recommended corrective actions where applicable (Table 2).

The EMP:

- Identifies all mineral exploration activities that could cause environmental damage (risks and potential impacts) and provides a summary of actions required;
- Identifies institutions responsible for ensuring compliance with the EMP and provides their contact information;
- Provides standard procedures to avoid, minimise and mitigate the identified negative environmental impacts and to enhance the positive impact of the proposed activities on the environment;
- Provides for site and exploration rules and actions required;
- Forms a written record of procedures, responsibilities, requirements and rules for contractor/s, their staff and any other person who must comply with the EMP;
- Ensure zero pollution incidents; minimal vegetation clearing and earthworks, protect local flora, fauna, and water resources; and use water and other natural resources effectively and efficiently.
- Provides a monitoring and auditing programme to track and record compliance and identify and respond to any potential or actual negative environmental impacts, and
- Provides a monitoring programme to record any mitigation measures that are implemented.
- Ensure that an annual environmental audit is carried out by either MME or MEFT.
- Once exploration has ceased, any impacts shall be rehabilitated.

3.4 Issues of non-compliance

No issues of non-compliance were identified.

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Table 2 - Exploration EMP Audit

Activity	Potential Impacts	Management/Mitigation Measures	Compliance	Comments
Use of Plant and equipment (On the ground)	– Safety	 Plant and equipment shall be brought onto site as and when required and stored in specific areas, and Amenities (e.g. portable toilets) shall be provided and set up in a suitable location (if required). 	- Compliant	- The proponent will continue to ensure mitigation measures are in place as per the EMP.
	- Ariel emissions	 All vehicles and machinery/ equipment to be shut down or throttled back between periods of use 	– Compliant	- The proponent will continue to ensure mitigation measures are in place as per the EMP.
	 The potential loss of oil and fuel causing ground contamination 	 Refueling shall be undertaken in a designated area. All stationary vehicles and machinery must have drip trays to collect leakages of lubricants and oil 	– Compliant	- The proponent will continue to ensure mitigation measures are in place as per the EMP.
	- Water contamination	 In the event of pollution, polluted soils must be collected and dumped at an approved site Water during drilling should be retained in a lined pond to prevent pollution The water collection pit from drilling must be layered in order to avoid seepage, and 	– Compliant	- The proponent will continue to ensure mitigation measures are in place as per the EMP.



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Activity	Potential Impacts	Management/Mitigation Measures	Compliance	Comments
		- A 'good housekeeping' policy shall be		
		adopted across the construction and		
		maintenance working areas.		
	- Dust generation	- Use existing access roads and tracks,	– Compliant	- The proponent will continue
		where possible		to ensure mitigation
		– Apply dust suppression method such as		measures are in place as per
		water spraying during drilling operations		the EMP.
		– Non-toxic human dust exposure levels		
		may not exceed 15mg/m3 for total dust		
		and 5mg/m3 for respiratory dust		
		 Restricted speeds (<30km/h) 		
		- Provide protective masks and eye glasses		
		to employees in dusty working		
		environments, and		
		– Specific activities that may generate dust		
		shall be avoided during high wind events,		
		e.g. soil preparation activities		
	 Noise generation 	- Noise shall be minimised as much as	- Compliant	- The proponent will continue
		possible during construction works		to ensure mitigation
		– Limit working hours to 7am to 6pm		measures are in place as per
		weekdays and 7am to 1pm on Saturday		the EMP.
		- Inform local communities and residents of		
		scheduling and duration of noisy activities		
		through notices or face-to-face		
		communications.		

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Activity	Potential Impacts	Management/Mitigation Measures	Compliance	Comments
Activity	Fotential impacts		Compliance	Comments
		- Regular maintenance and servicing of		
		vehicles, plant and equipment.		
		– All plant to be shut down or throttled back		
		between periods of use.		
		- Provide ear muffs to employees working in		
		close proximity to excessive noise		
		 Workers must not be subjected to working 		
		in noise levels above the threshold of 85dB		
		(A) for longer than 8 hours, and		
		- No flying is to be conducted (aerial surveys)		
		between dusk and dawn, on Sundays and		
		on public holidays.		
Use of	 Noise generation 	- Only use remote sensing equipment	-	- The proponent will continue
airborne		between 7am and 5pm, and		to ensure mitigation
equipment		- No flying on Sundays and on public		measures are in place as per
(Remote		holidays.		the EMP.
sensing -		-		
drone,				
helicopter)				
-		5 1	G !! .	
Vegetation	 Alien species 	– Ensure the correct removal of alien	– Compliant	- The proponent will continue
Clearance		invasive vegetation from the proposed		to ensure mitigation
		development area and prevent the		measures are in place as per
		establishment and spread of alien invasive		the EMP.
		plants due to the development activities.		

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	Determination of the second	NA	C	Elevate Oranium (Pty) Ltd.
Activity	Potential Impacts	Management/Mitigation Measures	Compliance	Comments
		– Ensure the potential introduction and		
		spread of alien plants is prevented		
		– All project or earth moving equipment		
		must have an internal weed and seed		
		inspection completed prior to equipment		
		being used on site, and		
		- Invasive plants shall be removed as per the		
		National Park Management Strategy.		
	- Dust generation	- Apply speed restrictions, and	- Compliant	- The proponent will continue
		 Avoid off road driving. 		to ensure mitigation
				measures are in place as per
				the EMP.
			- "	
	 Reduced soil quality 	Use existing tracks where possible	– Compliant	- The proponent will continue
		Refueling to occur in designated areas		to ensure mitigation
		with drip trays, and		measures are in place as per
		Avoid natural drainage lines		the EMP.
	– Injure or kill	– Relocate slow moving reptiles and	– Compliant	- The proponent will continue
	animals	amphibians away from the construction	22	to ensure mitigation
	arminais	area		measures are in place as per
		No driving off designated access routes		the EMP.
		(into the bush) / off-road driving		
		 No snares or catching of animals for pets 		
		or food, and		
		or 100a, and		

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				Elevate Oranium (Pty) Ltd.
Activity	Potential Impacts	Management/Mitigation Measures	Compliance	Comments
		– No animals or birds may be collected,		
		caught, consumed or removed from site by		
		the Contractor or personnel on site.		
	 Removal of 	 Use existing tracks where possible. 	- Compliant	- The proponent will continue
	vegetation – loss of	– Route new tracks around established and		to ensure mitigation
	flora and fauna,	protected trees, and clumps of vegetation		measures are in place as per
	protected/important	- Identify rare, endangered, threatened and		the EMP.
	species	protected species. Demarcate and avoid		
		cutting down, and clearly highlight to		
		construction workers so that they are		
		avoided, and		
		 Avoid natural drainage lines. 		
Site and	 Creation of dust 	As above	- Compliant	- The proponent will continue
ground				to ensure mitigation
preparation -				measures are in place as per
creation of				the EMP.
access tracks				
and areas for	 Heritage remains 	Discovery of unearthed archaeological	- Compliant	- The proponent will continue
setting up		remains to be uncovered, the following		to ensure mitigation
drill rigs		measures (chance find procedure) shall be		measures are in place as per
Ü		applied:		the EMP.
		– Works to cease, area to be demarcated		
		with appropriate tape by the site		
		supervisor, and		
		The Exploration Manager to be informed		
		The Exploration Manager to be informed		

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Activity	Potential Impacts	Management/Mitigation Measures	Compliance	Comments
	- Heritage remains	 Exploration Manager to visit the site and determine whether work can proceed without damage to findings, mark exclusions boundary and Inform the Environmental Consultant with the GPS position, if possible. If works cannot proceed without damage to findings, the Exploration Manager to inform the Environmental Consultant for the archaeologist inspection and advice Environment Compliance Consultancy's Archaeologist will evaluate the significance of the remains and identify appropriate action, for example, record and remove; relocate or leave in situ (depending on the nature and value of the remains) Inform the police if the remains are human, and Obtain appropriate clearance or approval from the competent authority, if required, and recover and remove the remains to the National Museum or National Forensic Laboratory as directed. 	- Compliant	- The proponent will continue to ensure mitigation measures are in place as per the EMP.

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				Elevate Uranium (Pty) Ltd.
Activity	Potential Impacts	Management/Mitigation Measures	Compliance	Comments
Fuel handling and storage	- Loss of containment leading to ground or groundwater contamination	 Safe Delivery and handling: Training employees and Toolbox Talks Good housekeeping across site Fuel is handled with care Spill kits to be at designated areas across site or available for use during refueling, fuel delivery or use. Absorption material should be available and at hand. Where saw dust is used it should be cleaned up immediately and not left for long periods as this poses a fire hazard Any major spill is reported to the PM once containment has been achieved. Plant and equipment to be well maintained and serviced regularly, and In the field, use of hydrocarbons under 200 liters can be used for mobile refueling or servicing. Storage: All tanks to be stored on a non-porous floor and bunded area Bund to be capable of storing at least 110% of the volume of the tank 	- Compliant	- The proponent will continue to ensure mitigation measures are in place as per the EMP.

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Activity	Potential Impacts	Management/Mitigation Measures	Compliance	Comments
Accivity		 All containers to be suitable for use and not damaged Tanks are locked at all times, and Spill kits available at storage locations and around site in suitable locations. 		
Generation of waste	 Nuisances (odors and visual) Land use, and Litter (nuisance and ecological risk). 	 Refueling: Drip tray to be used during refueling of vehicles and on a permeable flat surface where possible, and Funnel should be available and used to avoid spillage during decanting. Training and Toolbox Talks Training and Toolbox Talks Good housekeeping across site All working areas shall apply good housekeeping Implement the waste management hierarchy across site: Avoid, reuse, recycle, then disposal through burning or dump Waste shall be collected and shall be removed on a regular basis to avoid pests and bad odours. 	- Compliant	- The proponent will continue to ensure mitigation measures are in place as per the EMP.

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Activity	Potential Impacts	Management/Mitigation Measures	Compliance	Comments
		- It is unlikely that hazardous material and		
		wastes will be produced, however in the		
		event that they do, they shall be managed		
		in a safe and responsible manner so as to		
		prevent contamination of soils, pollution of		
		water and/or harm to people or animals as		
		a result of the use of these materials.		
		- Hazardous and non-hazardous waste shall		
		be stored separately at all times		
Resource use	- Inefficient use of water	- Use water effectively and efficiently	– Compliant	 The proponent will continue to ensure mitigation measures are in place as per the EMP.
Job creation	- Employment creation and skills development opportunities during the exploration phase.	 Maximise local employment and local business opportunities Enhance the use of local labour and local skills as far as reasonably possible Ensure that goods and services are sourced from the local and regional economy as far as reasonably possible. 	- Compliant	- The proponent will continue to ensure mitigation measures are in place as per the EMP.

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4 REHABILITATION

The proponent continually ensures that all impacts caused by them during exploration activities are rehabilitated, should no further use of the land be required.







Figure 3 - Rehabilitation of RAB holes

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5 CONCLUSION AND RECOMMENDATIONS

All proposed activities shall be carried out in compliance with the relevant requirements and conditions of the granted licence in accordance with the approved EMP. It is recommended that the Proponent continues to adhere to all environmental legislation and company standards to ensure that best practical environmental protection continues as the project activities progress.



APPENDIX A: ENVIRONMENTAL MANAGEMENT PLAN



APPENDIX B - ENVIRONMENTAL CLEARANCE CERTIFICATE



REPUBLIC OF NAMIBIA

MINISTRY OF ENVIRONMENT AND TOURISM

Tel: (00 26461) 284 2111 Fax: (00 26461) 232 057 Cnr Robert Mugabe & Dr Kenneth Kaunda Street Privata Bag 13306 Windhoek Namibia

Enquiries: Ms. Mwaka Lushetile E-mail: mwaka lushetile@met.gov.na 19 June 2019

OFFICE OF THE ENVIRONMENTAL COMMISSIONER

The Managing Director
Manmar Investment One Eight Two (Pty) Ltd
Erf 74 Finkenstein Manor
Windhoek
Namibia

Dear Sir or Madam,

SUBJECT: ENVIRONMENTAL CLEARANCE CERTIFICATE FOR THE PROPOSED EXPLORATION IN THE EXCLUSIVE PROSPECTING LICENSE (EPL) NO. 6987 FOR NUCLEAR FUEL MINERALS, ERONGO REGION

The Environmental Scoping Report and Environmental Management Plan submitted are sufficient as they made provisions of the environmental management concerning the project's activities. From this perspective regular environmental monitoring and evaluations should be conducted. Targets for improvements should be established and monitored from time to time.

This Ministry reserves the right to attach further legislative and regulatory conditions during the operational phase of the project. From this perspective, I issue this clearance with the conditions: (a) relevant permitting authority must be notified at all times on the operations of the project; (b) rehabilitation plan must be implemented; and (c) attached conditions applicable to Environmental Clearances in Proclaimed Protected Areas in Annexure A.

On the basis of the above, this letter serves as an Environmental Clearance Certificate for the project to commence. However, this clearance letter does not in any way hold the Ministry of Environment and Tourism accountable for misleading information, nor any adverse effects that may arise from this project activity. Instead, full accountability rests with Manmar Investment One Eight Two (Pty) Ltd and their consultants.

This environmental clearance is valid for a period of 3 (three) years, from the date of issue unless withdrawn by this office.

Yours sincerely

Fredrick Mupoti Sikabongo

DEPUTY ENVIRONMENTAL COMMISSIONER

P/Bag 13308

"Stop the poaching of our rhinos"















ECC DOCUMENT CONTROL: ECC-76-165-REP-08-D

ENVIRONMENTAL MANAGEMENT PLAN

Exploration Activities on EPL 6987 for Nuclear Fuel Minerals

Erongo Region

PREPARED FOR



APRIL 2019



CONFLIANCE CONSULTANCE

TITLE AND APPROVAL PAGE

Project Name: Exploration Activities on EPL6987 for Nuclear Fuel Minerals, Erongo Region

Project Number ECC-76-165-REP-08-D

Client Name: Marenica Energy Ltd - Manmar Investments One Eight Two (Pty)

Ministry Reference: NA

Status of Report: Final for Government Records of Decision

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DEFINITIONS AND ABBREVIATIONS

DEA Directorate of Environmental Affairs ECC **Environmental Compliance Consultancy Environmental Impact Assessment** EΙΑ EMP **Environmental Management Plan** EPL **Exclusive Prospecting Licence** IFC International Finance Cooperation I&AP Interested and affected parties MET Ministry of Environment and Tourism

MME Ministry of Mines and Energy

MPMRC Minerals (Prospecting and Mining Rights) Committee



1 INTRODUCTION

1.1 PROJECT BACKGROUND

Marenica Energy Ltd is an Australian Securities Exchange Listed Company, it is the holding company of Manmar Investments One Eight Two (Pty) Ltd which is seeking to explore for Nuclear Fuels Minerals in Namibia. Marenica has also developed a uranium concentration process that is unique and ground-breaking, lowering the extraction cost of uranium and significantly reducing potential environmental effects associated with reducing the mass of ore to be leached. This **U-pgrade**TM process technology can be applied to surficial uranium deposits and is capable of concentrating uranium by a factor of up to 50 times, thereby reducing the feed to a leaching circuit dramatically.

Manmar Investments One Eight Two (Pty) Ltd is seeking to explore further uranium mining opportunities and propose to undertake exploration activities on EPL 6987 for Nuclear Fuel Minerals in the Erongo Region.

The EPL is located in the Namib-Naukluft National Park approximately 80km south-east of Walvis Bay off the C14 as illustrated in Figure 1.

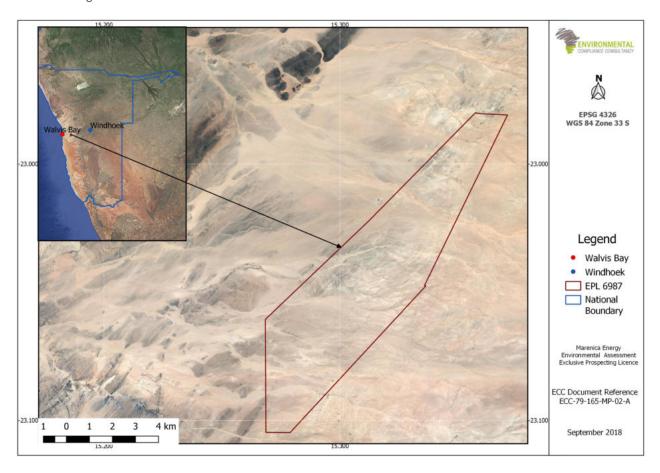


FIGURE 1: LOCALITY OF EPL 6987

1.2 ENVIRONMENTAL REGULATORY REQUIREMENTS

The proposed project is considered as a listed activity as stipulated in the Environmental Management Act7 of 2007 and the Environmental Impact Assessment Regulation, 2007 (No. 30 of 2011) gazetted under the Environmental Management Act, (EMA), 2007 (referred to herein as the EIA Regulations). A renewal application for an environmental clearance certificate is to be submitted. An Environmental Management Plan (EMP) is required to be submitted as part of the renewal process, as well as to support the decision-making process. This report presents the



EMP and has been undertaken in accordance with the requirements of the Environmental Management Act, 2007 and its Regulations.

1.3 Purpose and Scope of this Report

This EMP provides a logical framework, mitigation measures and management strategies for the exploration activities associated with the proposed project, in this way ensuring that the potential environmental and social impacts are mitigated and minimised as far as practically possible and that statutory and other legal obligations are adhered to and fulfilled. Outlined in the EMP are the protocols, procedures and roles and responsibilities to ensure the management arrangements are effectively and appropriately implemented.

The EMP forms an appendix to the environmental scoping report and has been based on the findings of the assessment; therefore, the environmental scoping report should be referred to for further information on the proposed project, assessment methodology, applicable legislation, and assessment findings.

This EMP is a live document and shall be reviewed at predetermined intervals, and/or updated when the scope of works alters, or when further data /information can be added. All personnel working on the project will be legally required to comply with the standards set out in this EMP. The scope of this EMP includes all activities carried out during the exploration stage in search of nuclear fuel minerals on EPL 6987.

1.4 MANAGEMENT OF THIS EMP

The proponent, Manmar Investments One Eight Two (Pty) will hold the Environmental Clearance Certificate for the proposed project and shall be responsible for the implementation and management of this EMP. Prior to the exploration activities commencing, this EMP shall be reviewed, amended as required and approved ready for implementation. The implementation and management of this EMP and thus the monitoring of compliance shall be undertaken through daily duties and activities and monthly inspections.

This EMP shall be circulated to all contractors and shall be made available on the Environmental Compliance Consultancy's (ECC) website.

1.5 LIMITATIONS, UNCERTAINTIES AND ASSUMPTIONS OF THIS EMP

This EMP does not include measures for compliance with statutory occupational health and safety requirements. This will be provided in the safety management plan to be developed by the proponent.

Where there is any conflict between the provisions of this EMP and any contractor's obligations under their respective contracts, including statutory requirements (such as licences, project approval conditions, permits, standards, guidelines and relevant laws), the contract and statutory requirements are to take precedence.

The information contained in this EMP has been based on the project description as provided in the environmental scoping report. Where the design or construction methods alter, this EMP may require updating and potential further assessment undertaken.

1.6 Environmental Consultancy

Environmental Compliance Consultancy, a Namibian consultancy registration number 2013/11401, has prepared this document on behalf of the proponent. ECC operates exclusively in the environmental, social, health and safety fields for clients across Southern Africa in the public and private sector. The CVs of the authors of this report is contained in Appendix A. ECC is independent of the proponent and has no vested or financial interested in the proposed project expect for fair remuneration of professional services rendered.

All compliance and regulatory requirements regarding this document should be forwarded by email or post to the following address:



Environmental Compliance Consultancy

PO BOX 91193 Klein Windhoek, Namibia Tel: +264 81 669 7608

Email: info@eccenvironmental.com

1.7 STRUCTURE OF THIS EMP

Table 1 - ENVIRONMENTAL SCOPING REPORT SECTIONS

SECTION	TITLE	CONTENT
1	Introduction	This section introduces the EMP and provides background information on
		the proposed project, proponent and purpose of the report
2	Project Management	Sets the roles of the team responsible for implementing this EMP
3	Communication and	Methods for communication the EMP, records and complaints
	Training	
4	Compliance and	Sets out how compliance is monitored, reporting and actions to prevent
	Enforcement	reoccurrence
5	Environmental and Social	Register of commitments for the project
	Management	
6	Implementation of the	How to implement the EMP
	EMP	



2 PROJECT MANAGEMENT PERSONNEL

2.1 Manmar Investments One Eight Two (Pty) Ltd

The proponent shall provide a project team to oversee and undertake the preparation and exploration activities, which shall be composed of the proponent's personnel and contractors. A nominated role shall be identified to ensure the management and implementation of this EMP is throughout the duration of the project, which shall be supported by the proponent.

2.2 Organisational Structure, Roles and Responsibilities

The proponent shall be responsible for:

- Ensuring all members of the Project Team, including contractors, comply with the procedures set out in this
- Ensuring that all persons are provided with sufficient training, supervision and instruction to fulfil this requirement
- Ensuring that any persons allocated specific environmental responsibilities are notified of their appointment and confirm that their responsibilities are clearly understood, and
- Contractors shall be responsible for ensuring and demonstrating that all personnel employed by them are compliant with this EMP, and meet the responsibilities listed above.

The key personnel and environmental responsibilities of each role through the project life are presented in Table 1.

TABLE 2 – ROLES AND RESPONSIBILITIES

ROLE	RESPONSIBILITIES & DUTIES
Proponent	 Responsible for the management and implementation of the EMP Ensure environmental policies is communicated to all personnel throughout the proposed project and that employees understand the guidelines of the EMP Responsible for providing the resources required to complete the project tasks Appoint a Site manager and Project Manager, and Ensure all workers are inducted on safety measures.
Exploration Management	 Overseeing exploration activities Monitoring daily operations and ensure adherence by personnel to the EMP Maintain the community issues and concerns register and keep records of complaints, and Maintain an up to date register of employees who have completed site induction.
Site Manager	 Ensuring that all contract workers, sub-contractors and visitors to the site are aware of the requirements of this EMP, relevant to their roles and always adhere to this EMP Reporting any non-compliance or accidents to the PM Receiving, recording and responding to complaints Ensure adequate resources are available for the implementation of the EMP Report non-compliance to the PM Ensure safe and environmentally sound operations, and Responsible for the management, maintenance and revisions of this EMP.
Employees	Adhere to measures set out in the EMP



ROLE	RESPONSIBILITIES & DUTIES	
	 Ensure they have undertaken a site induction, and Report any operations or conditions which deviate from the EMP as well as any non-compliant issues or accidents to the environmental manager 	

2.3 Contractors

Any contractors hired during the exploration activities and accessory works for the project duration shall be compliant with this EMP, and shall be responsible for the following:

- Undertaking activities in accordance with this EMP as well as relevant policies, procedures, management plans, statutory requirements, and contract requirements
- Implementing appropriate environmental and safety management measures
- Reporting of environmental issues, including actual or potential environmental incidents and hazards, to the
 Site Manager and/or PM, and
- Ensuring appropriate corrective or remedial action is taken to address all environmental hazards and incidents reported by employees and subcontractors.

2.4 EMPLOYMENT

The proponent and all contractors shall comply with the requirements of the Republic of Namibia Regulations for Labour, Health and Safety, and any amendments to these regulations. The following shall be complied with:

- In liaison with local government and community authorities the proponent shall ensure that local people have access to information about job opportunities and are considered first for construction / maintenance contract employment positions
- The number of job opportunities shall be made known together with the associated skills and qualifications.
 The maximum length of time the job is likely to last for shall be clearly indicated
- Foreign workers with no proof of permanent legal residence shall not be hired, and
- Every effort shall be made to recruit from the pool of unemployed workers living in the local area.



3 COMMUNICATION AND TRAINING

3.1 COMMUNICATIONS

During exploration, the PM and Site Manager shall communicate site wide environmental issues to the Project Team through the following means (as and when required):

- Site induction
- Audits and site inspections
- Toolbox talks, including instruction on incident response procedures, and
- Key project specific environmental issues briefings.

This EMP shall be distributed to the exploration team including any contractors and personnel working on the exploration site to ensure that the environmental requirements are adequately communicated. Key activities and environmentally sensitive operations shall be briefed to workers and contractors.

During the exploration activities, communications between the management team shall include discussing any complaints received and actions to resolve them; any inspections, audits or non-conformance with this EMP; and any objectives or target achievements.

3.2 Complaints Handling and Recording

Any complaints received verbally by any personnel on the project site shall be recorded by the receiver, including the name and contact details of the complainant, date and time of the complaint, and the nature of complaint. The information shall be given to the project manager who is overall responsible for the management of complaints and will provide a written response to the complainant. The project manager shall inform the site manager of issues, concerns or complaints. It is the duty of the project manager to maintain a complaint register that details the name of the complainant, date and time of complaint, action taken to resolve the issues and date of complaint handover.

The workforce shall be informed about the complaints register, its location and the person responsible, in order to refer residents or the general public who wish to lodge a complaint. The complainant shall be informed in writing of the results of the investigation and action to be taken to rectify or address the matter(s). Where no action is taken, the reasons why are to be recorded in the register.

The complaints register shall be kept for the duration of the project and will be available for government or public review upon request.

3.3 Training and Awareness

All personnel working on the project shall be competent to perform tasks that have the potential to cause an environmental impact. Competence is defined in terms of appropriate education, training and experience.

3.3.1 SITE INDUCTION

All personnel involved in the project shall be inducted to the site with specific environment and social awareness training, and health and safety issues. The environment and social awareness training shall ensure that personnel are familiar with the principles of this EMP, the environment and social aspects and impacts associated with their activities, the procedures in place to control these impacts and the consequences of departure from these procedures.

The project manager shall ensure a register of completed training is maintained.

The site induction should include, but not limited to the following:

A general site-specific induction that outlines:



- What is meant by "environment" and "social"
- Why the environment needs to be protected and conserved
- O How exploration activities can impact on the environment
- What can be done to mitigate against impacts
- The inductee's role and responsibilities with respect to implementing the EMP
- The sites environmental rules
- Details of how to deal with, and who to contact if environmental problems should they occur
- Basic vegetation clearing principals and species ID sheets
- The potential consequences of non-compliance with this EMP and relevant statutory requirements, and
- The role of responsible people for the project.



4 REPORTING, COMPLIANCE AND ENFORCEMENT

4.1 Environmental Performance measurement

The EMP provides the management team with options to ensure the impacts of the exploration activities are minimized. The EMP will be used as a pro-active tool to take up action by mitigating impacts before they occur. Although additional mitigation measures might be included, the environmental management measures are discussed in the tables and description from this point forward.

4.2 SUMMARY OF ENVIRONMENTAL RISKS AND MITIGATION MEASURES

Chapter 5 provides a Register of environmental risks and issues, which identifies mitigation and monitoring measures, as well as roles responsible. This register will be subject to regular review by the project manager and updated when necessary. The project manager and site manager will use this register to undertake monthly inspections (see next section) to ensure the project is compliant with this EMP.

4.3 COMPLIANCE MONITORING

4.3.1 MONITORING IN THE NATIONAL PARK

The EPL is located in the Namib-Naukluft National Park. The National Policy on the Prospecting and Mining in Protected Areas provides direction in terms of where mining and exploration related impacts are legally prohibited and where biodiversity priority areas may present high risks for mining projects. In addition, the Namib-Naukluft National Park Management Plan provides guidance and requirements for these activities in the Park. Requirements under the Policy and Management Plan are as follows:

- The proponent shall provide the National Park staff and the MET with an environmental report every six months during exploration works, showing its progress towards meeting agreed upon safeguard targets.
- The proponent shall communicate with the National Park staff on a regular basis to ensure that mutual expectations are clear and reinforced, including:
 - One month prior to undertaking the activities
 - Once during each scheduled program of works (anticipated to be for three months a year for seven years)
 - Once a month prior to activities completing
 - o Within one month of all site rehabilitation works.
- The proponent shall allow Park staff and the MET to regularly visit and talk to the operators during exploration activities. The MET and MME may conduct inspections at any time during the year to monitor compliance with the Environmental Contract, EIA, EMP and/or any other conditions that are stipulated. Where non-compliance is observed, Park staff must immediately report the matter to the Chief Control Warden in order to enable "in house" remediation. If this fails, the matter must be reported to MET headquarters for higher level attention.
- An annual Environmental Audit must be carried out on any EPL within any Protected Area. This audit must be conducted by the MET or MME, or an independent expert may be commissioned, at the licensee's cost, to conduct the audit, and
- Once prospecting has ceased, any impacts shall be rehabilitated in accordance with the stipulations of the EMP. Conditions as set out in Annex 6 of the Policy are included in Table 2.



TABLE 3 - CONDITIONS TO OPERATE IN PROTECTED AREAS

General Conditions:

- 1. A list of company personnel, including ID/Passport numbers, nationality and position, authorized to enter or work on the company's tenements within a PA, must be supplied to the MET officer in charge of the area.
- 2. Employee and personnel lists must be updated on a regular basis (when any changes happen).
- 3. An annual permit must be obtained from the MET to enter a PA. All permanent staff must be listed on this permit. This permit must be shown each time a staff member enters the park, and all people in a group must correspond with the permit list. A separate permit must be obtained from the MET for non-permanent employees (contractors, service providers etc.) to cover the duration of their visit.
- 4. A copy of all permits and permissions from the relevant authorities or ministries to carry out any of the proposed activities on the EPL must be supplied to the officer in charge of the area.
- 5. All employees must be in possession of an ID/name tag with their name, photo and job or function with an authorizing signature.
- 6. A suitable communication system to enable regular contact with PA officials must be installed.



Environmental Conditions:

- 1. A six monthly progress report and environmental management report must be submitted to the MET starting from date of commencement of operations.
- 2. All provisions of the Nature Conservation Ordinance, Ordinance 4 of 1975 and all amendments to this ordinance and Regulations Relating to Nature Conservation, GN 240 of 1976, with all amendments or any legislation that replaces it must be complied with.
- 3. All provisions of the Environmental Management Act, Act 7 of 2007, must be complied with.
- 4. Provisions of any other legislation pertaining to any aspect of the environment must be complied with.
- 5. Strict compliance with all conditions in the Environmental Contract and appendices.
- 6. No movement outside of the EPL area except when in transit between entrance to the PA and the EPL area will be allowed. Such transit will be on a specified route.
- 7. A detailed site inspection will be carried out in conjunction with MET staff prior to commencement of any prospecting activities to establish access routes to target areas.
- 8. No motor bike, 3-wheeler or quad bike of any nature will be allowed to be used in an EPL for any purpose.
- 9. No hunting, catching or wilfully disturbing any animal is allowed.
- 10. No boating will be allowed on any river or water body unless it is within the operations detailed on the operational documentation.
- 11. No gathering of firewood or driftwood for any purpose will be allowed.
- 12. No pets of any description will be allowed.
- 13. No firearms, bows, crossbows, catapults or other weapons. Weapons for security purposes must be motivated and registered with the officer in charge of the area.
- 14. Traveling will be confined to an agreed upon track network. New tracks will be kept to a minimum.
- 15. All waste must be removed from the license area to a waste disposal unit. No waste to be disposed of within the PA. A suitable scavenger and wind proof storage facility must be constructed to store waste material prior to transportation out of the area. Waste may be burnt on site and the ash and non-burn-able residue must be removed as described above. Attention must be given to wind conditions and all necessary measures must be taken to prevent wind distribution of rubbish. All fuel and lubricant waste products must be disposed of at a suitable facility outside of the PA.
- 16. Suitable and effective traps or pans must be used at vehicle or machinery refuelling points. Soil contaminated with fuel or oil must be immediately dug up and stored in a safe place for later removal to a suitable disposal facility.
- 17. Under no circumstances may any waste material of any nature be disposed of in any water body or river.
- 18. All structures are to be of a temporary nature.
- 19. Toilets of a 'long drop' or pit latrine type must be put up immediately. The use of chemical toilets will not be acceptable, as there is the problem of disposing of the chemical residue. Any toilet must be constructed away from the any river to prevent contamination.
- 20. Harvesting of reeds or other natural materials for construction or other purposes will not be allowed.
- 21. Transgressions of any provisions of the Nature Conservation Ordinance or its amendments will be dealt with severely. Second time offenders will be asked to leave the park.



4.3.2 DAILY COMPLIANCE MONITORING

A copy of this EMP shall be on site throughout the exploration works and shall be available upon request. It is the responsibility of the PM and Site Manager to ensure this EMP is complied with through their daily roles. Daily inspections will be undertaken by the Site Manager (or nominated site supervisor). Any environmental problems or risks identified shall be notified to the PM and actioned as soon as is reasonably practicable.

4.3.3 Monthly compliance monitoring

Monthly internal inspections during exploration activities shall be undertaken by the Site Manager to check that the standards and procedures set out in this EMP are being complied with and pollution control measures are in place and working correctly. Any non-conformance shall be recorded, including the following details: brief description of non-conformance; the reason for the non-conformance; the responsible party; the result (consequence); and the corrective action taken and any necessary follow up measures required.

4.4 REPORTING

Reports shall be submitted to the Mining Commissioner in terms of the Minerals (Mining and Prospecting) Act, 1992. The reporting requirements for the two sites are illustrated in Table 4. A report shall be submitted 60 days after the currency of the EPL.

TABLE 4 - REPORTING FREQUENCY

TYPE OF LICENCE	MONTHLY	QUARTERLY	ANNUALLY
EPL	NA	Yes	NA

4.5 Non-Compliance

4.5.1 Non-compliance event

Where it has been identified that works are not compliant with this EMP, the project manager shall employ corrective actions so that the works return to being compliant as soon as possible. In instances where the requirements of the EMP are not upheld, a Non-Conformance and Corrective Action Notice shall be produced. The notice shall be generated during the inspections and the project manager shall be responsible for ensuring a corrective action plan is established and implemented to address the identified shortcoming.

A non-compliance event / situation, for example, is considered if:

- There is evidence of contravention of this EMP and associated indicators or objectives
- The Site Manager and/or Contractor have failed to comply with corrective or other instructions issued by the Environmental Manager or qualified authority, or
- The site manager and/or contractor fail to respond to complaints from the public.

Works shall be stopped in the event of a non-compliance, until corrective action(s) has been completed

4.5.2 DISCIPLINARY ACTION

This EMP is a legally binding document and non-compliance with it shall result in disciplinary action being taken against the perpetrator/s. Such action may take the form of (but is not limited to):

- Fines / penalties
- Legal action
- Monetary penalties imposed by the proponent on the contractor



- Withdrawal of license/s, and
- Suspension of work.

The disciplinary action shall be determined according to the nature and extent of the transgression / non-compliance, and penalties are to be weighed against the severity of the incident.

4.6 ENVIRONMENTAL PERMITS

Whilst the Water Resources Management Act, 2013 is not enforced, it is best practice to adhere to the stipulations. A permit to abstract and use water may be required if boreholes are to be created, however this is unlikely.

Some vegetation shall be cleared on the EPL sites to allow exploration activities to commence. It is unlikely that an area greater than 15ha shall be cleared, therefore a permit, in terms of the Forest Act, 2001 is not required.



5 ENVIRONMENTAL AND SOCIAL MANAGEMENT

5.1 OBJECTIVES AND TARGETS

This chapter provides a register of environmental risks and issues, which identifies mitigation and monitoring measures, as well as roles responsible. This register will be subject to regular review by the exploration manager and updated when necessary.

The exploration manager and or site manager (if applicable) will use this register to undertake monthly inspections (see next section) to ensure the project is compliant with this EMP.

Environmental objectives for the project are as follows:

- Zero pollution incidents
- Minimal vegetation clearing and earthworks
- Protect local flora and fauna, and
- Use natural resources effectively and efficiently.

5.2 REGISTER OF ENVIRONMENTAL RISKS AND ISSUES

An environmental review of the proposed project has been completed to identify all the commitments and agreements made within the environmental scoping report. From this, a schedule of environmental commitments and risks has been produced, which details deliverables including measures identified for the prevention of pollution or damage to the environment during the exploration phase.



TABLE 5 – ENVIRONMENTAL RISKS AND ISSUES, AND MITIGATION AND MONITORING MEASURES

ACTIVITY	POTENTIAL IMPACTS	MANAGEMENT/MITIGATION MEASURES	MONITORING REQUIREMENTS	RESPONSIBILITY
Use of Plant and equipment (on the	Safety	 Plant and equipment shall be brought onto site as and when required and stored in specific areas, and Amenities (e.g. portable toilets) shall be provided and set up in a suitable location (if required). 	Daily observations	ProjectmanagerSite manager
ground)	Aerial emissions	All plant to be shut down or throttled back between periods of use.	Daily observations	ProjectmanagerSite manager
	Potential loss of oil and fuel causing ground contamination	 Refueling shall be undertaken in a designated area. All stationary vehicles and machinery must have drip trays to collect leakages of lubricants and oil 	Daily observations	ProjectmanagerSite manager
	Water contamination	 In the event of pollution, polluted soils must be collected and dumped at an approved site Water during drilling should be retained in a lined pond to prevent pollution The water collection pit from drilling must be layered in order to avoid seepage, and A 'good housekeeping' policy shall be adopted across the construction and maintenance working areas. 	Daily observations	ProjectmanagerSite manager
	Dust generation	 Use existing access roads and tracks, where possible Apply dust suppression method such as water spraying during drilling operations Non-toxic human dust exposure levels may not exceed 15mg/m³ for total dust and 5mg/m³ for respiratory dust Restricted speeds (<30km/h) Provide protective masks and eye glasses to employees in dusty working environments, and Specific activities that may generate dust shall be avoided during high wind events, e.g. soil preparation activities 	Daily observations	Project managerSite manager

ACTIVITY	POTENTIAL IMPACTS	MANAGEMENT/MITIGATION MEASURES	MONITORING REQUIREMENTS	RESPONSIBILITY
	Noise generation	 Noise shall be minimised as much as possible during construction works Limit working hours to 7am to 6pm weekdays and 7am to 1pm on Saturday Inform local communities and residents of scheduling and duration of noisy activities through notices or face-to-face communications. Regular maintenance and servicing of vehicles, plant and equipment. All plant to be shut down or throttled back between periods of use. Provide ear muffs to employees working in close proximity to excessive noise Workers must not be subjected to working in noise levels above the threshold of 85dB (A) for longer than 8 hours, and No flying is to be conducted (aerial surveys) between dusk and dawn, on Sundays and on public holidays. 	Daily observations	Project managerSite manager
Use of airborne equipment (remote sensing – drone, helicopter)	Noise generation	 Only use remote sensing equipment between 7am and 5pm, and No flying on Sundays and on public holidays. 	Daily observations	ProjectmanagerSite manager
Vegetation Clearance	Alien species	 Ensure the correct removal of alien invasive vegetation from the proposed development area and prevent the establishment and spread of alien invasive plants due to the development activities. Ensure the potential introduction and spread of alien plants is prevented All project or earth moving equipment must have an internal weed and seed inspection completed prior to equipment being used on site, and Invasive plants shall be removed as per the National Park Management Strategy. 	 Monitor daily the removal of the alien invasive vegetation, and Check the tyre of vehicles after use on site. 	EmployeesProjectmanager
	Dust generation	Apply speed restrictions (<30km/h), andAvoid off road driving.	Daily observations	ProjectmanagerSite manager
	Reduced soil quality	 Use existing tracks where possible 	Daily observations	- Project

ACTIVITY	POTENTIAL IMPACTS	MANAGEMENT/MITIGATION MEASURES	MONITORING REQUIREMENTS	RESPONSIBILITY
	Injure or kill animals	 Refueling to occur in designated areas with drip trays, and Avoid natural drainage lines Relocate slow moving reptiles and amphibians away from the construction area No driving off designated access routes (into the bush) / off-road driving No snares or catching of animals for pets or food, and No animals or birds may be collected, caught, consumed or removed from site by the Contractor or personnel on site. 	Daily observations	manager - Site manager - Project manager - Site manager
	Removal of vegetation may lead to loss of flora and fauna and protected/important species	 Use existing tracks where possible. Route new tracks around established and protected trees, and clumps of vegetation Identify rare, endangered, threatened and protected species. Demarcate and avoid cutting down, and clearly highlight to construction workers so that they are avoided, and Avoid natural drainage lines. 	Daily visual inspection during construction of new access tracks/widening	ProjectmanagerEmployeesSite manager
Site and ground Preparation –	Creation of dust	As above	Daily observations	ProjectmanagerSite manager
creation of access tracks and areas for setting up drill rigs	Heritage remains	 Discovery of unearthed archaeological remains to be uncovered, the following measures (chance find procedure) shall be applied: Works to cease, area to be demarcated with appropriate tape by the site supervisor, and the Site Manger to be informed Site Manager to visit the site and determine whether work can proceed without damage to findings, mark exclusions boundary and inform the Environment and Social Manager with the GPS position if possible; If works cannot proceed without damage to findings, Site Manager to inform the Environmental Manager who will get in touch with an archaeologist who will provide advise Environment Manager (ECC) / Archaeological Specialist to evaluate the significance of the remains and identify appropriate action, for example, record and remove; relocate or leave in situ (depending on the nature and value of the remains) 	Daily observations	Project managerSite manager

ACTIVITY	POTENTIAL IMPACTS	MANAGEMENT/MITIGATION MEASURES	MONITORING REQUIREMENTS	RESPONSIBILITY
		 Inform the police if the remains are human, and Obtain appropriate clearance or approval from the competent authority, if required, and recover and remove the remains to the National Museum or National Forensic Laboratory as direct. 		
Fuel handling and storage	Loss of containment leading groundwater contamination	 Safe Delivery and handling: Training employees and Toolbox Talks Good housekeeping across site Fuel is handled with care Spill kits to be at designated areas across site or available for use during refueling, fuel delivery or use. Absorption material should be available and at hand. Where saw dust is used it should be cleaned up immediately and not left for long periods as this poses a fire hazard Any major spill is reported to the PM once containment has been achieved. Plant and equipment to be well maintained and serviced regularly, and In the field, use of hydrocarbons under 200 liters can be used for mobile refueling or servicing. Storage: All tanks to be stored on a non-porous floor and bunded area Bund to be capable of storing at least 110% of the volume of the tank All containers to be suitable for use and not damaged Tanks are locked at all times, and Spill kits available at storage locations and around site in suitable locations. Refueling Drip tray to be used during refueling of vehicles and on a permeable flat surface where possible, and Funnel should be available and used to avoid spillage during decanting. Funnel should be available and used to avoid spillage during decanting. 	 Daily observations when fuels are delivered and handled Supervision during refueling Weekly observations monitor containment and storage 	 Project manager
Generation of waste	 Nuisances (odors and visual) Land use Litter (nuisance and ecological risk) 	 Training and Toolbox Talks Good housekeeping across site All working areas shall apply good house-keeping Implement the waste management hierarchy across site: Avoid, reuse, recycle, then disposal through burning or dump Waste shall be collected and shall be removed on a regular basis to avoid pests and bad odours 	Daily observationsWeekly checks	Project managerEmployees



ACTIVITY	POTENTIAL IMPACTS	MANAGEMENT/MITIGATION MEASURES	MONITORING REQUIREMENTS	RESPONSIBILITY
		 It is unlikely that hazardous material and wastes will be produced, however in the event that they do, they shall be managed in a safe and responsible manner so as to prevent contamination of soils, pollution of water and/or harm to people or animals as a result of the use of these materials. Hazardous and non-hazardous waste shall be stored separately at all times 		
Resource use	Inefficient use of water	Use water effectively and efficiently.	Daily observations	ProjectmanagerEmployees
Job creation	Employment creation and skills development opportunities during the exploration phase.	 Maximise local employment and local business opportunities to promote and improve the local economy. Enhance the use of local labour and local skills as far as reasonably possible. Where the required skills do not occur locally, and where appropriate and applicable, ensure that relevant local individuals are trained, and Ensure that goods and services are sourced from the local and regional economy as far as reasonably possible. 	– Daily observations – Weekly checks	Project managerEmployees



COMPLIANCE CONSULTANCE

6 IMPLEMENTATION OF THE EMP

This EMP:

- A. Has been prepared pursuant to a contract with the proponent
- B. Has been prepared on the basis of information provided to ECC up to August 2018
- C. Is for the sole use of the proponent, for the sole purpose of an EMP
- D. Must not be used (1) by any person other than the proponent or (2) for a purpose other than an EMP, and
- E. Must not be copied without the prior written permission of ECC.

Environmental Compliance Consultancy has prepared the EMP on the basis of information provided by the proponent, specialist reports and the environmental scoping report.