



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

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REPORT:

EXPLORATION ACTIVITIES ON EPL 7436 – COMPLIANCE REPORT

PROJECT NUMBER: ECC-79-256-REP-42-A

REPORT VERSION: REV 01

DATE: NOVEMBER 2022





Elevate Uranium (Pty) Ltd.

TITLE AND APPROVAL PAGE

Project Name: Exploration Activities on EPL 7436 – Compliance Report

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

Client Name: Mr Murray Hill

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Authors: Environmental Compliance Consultancy

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 $^{^{\}rm 1}$ J.Bezuidenhout is seconded to Elevate for in country company management duties.





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TERMS AND ABBREVIATIONS

ABBREVIATIONS	DESCRIPTION
AEROTEM	airborne electromagnetic
ASX	Australian Stock Exchange
DEA	Directorate of Environmental Affairs
ECC	Environmental Compliance Consultancy
EIA	environmental impact assessment
EM	electromagnetic
EMP	environmental management plan
EPL	Exclusive Prospecting Licence
eU₃O ₈	radiometric equivalent U₃O ₈ .
MEFT	Ministry of Environment, Forestry and Tourism
ppm	Parts per million
RC	Reverse circulation
U-pgrade TM	Beneficiation process that rejects greater than 95% of the mass of uranium ore by utilising commonly used and well understood beneficiation unit processes, which enables the removal of the non-uranium bearing minerals.



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-pgradeTM) a beneficiation process that rejects greater than 95% of the mass of uranium ore by utilising commonly used and well understood beneficiation unit processes, which enables the removal of the non-uranium bearing minerals. It 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-pgradeTM 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) 7436 referred to as the Amichab project.

Environmental Compliance Consultancy (ECC) has been retained by Elevate Uranium (Pty) referred to hereinafter as the Proponent. The Proponent currently holds a valid environmental clearance certificate for exploration activities on EPL 7436, 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 within the Namib Naukluft National and covers 25,145 hectares and is situated approximately 25 kilometres from the Langer Heinrich Uranium Mine and 90 kilometres from the coastal town of Swakopmund, see



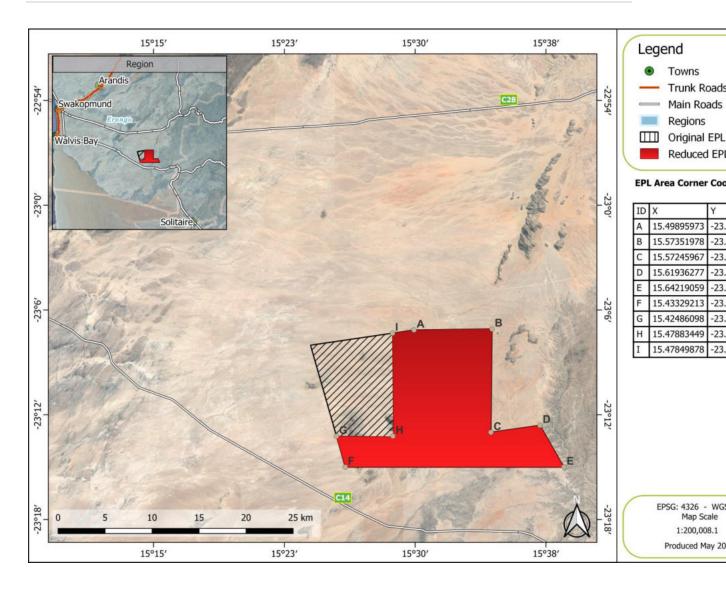


Figure 1.



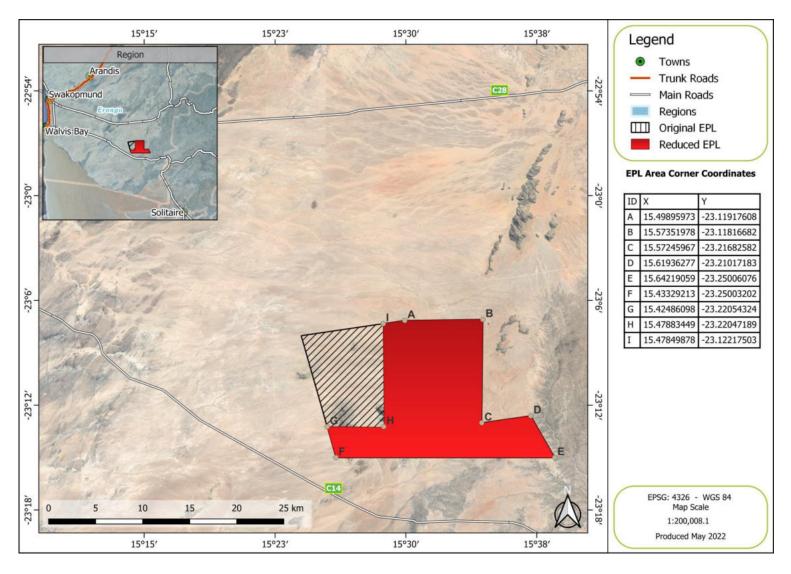


Figure 1 - Project location



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	
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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:

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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 7436.

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 7436 cannot be undertaken without a valid environmental clearance certificate. The exploration activities at EPL 7436 proposes to assess the viability of nuclear fuels, namely uranium that can be found in the EPL 7436 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.



Exploration Activities on EPL 7436 – Compliance Report

Elevate Uranium (Pty) Ltd.

2 BACKGROUND TO EPL 7436

EPL 7436 was granted to Marenica Ventures 16 May 2019, an environmental clearance certificate was issued to Marenica Ventures by the Ministry of Environment, Forestry and Tourism (MEFT) on the 4 December 2019, with exploration commencing in July 2020.

EPL 7436 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 7436 covers 25,145 hectares and is situated approximately 25 kilometres from the Langer Heinrich Uranium Mine and 90 kilometres from the coastal town of Swakopmund.

Drilling commenced in January 2022 and is ongoing at the time of writing. Drilling is being carried out by RC Drilling Services Namibia using a reverse circulation (RC) drill rig. A total of 57 holes for 1,304 m have been completed at the time of writing, with average hole depth of 22.8 m. Uranium grade estimation is achieved using downhole gamma logging, conducted by Terratec Geophysical Services of Windhoek. Probes used by Terratec are calibrated at the Pelindaba facility on South Africa and at the Husab mine.

Drilling focused on the central section of the Hirabeb palaeochannel has delineated two significant zones of uranium mineralisation, named Hirabeb I and Hirabeb II with limited drilling between the two zones. Drilling was successful in confirming the presence of two significant and previously unknown palaeochannels trending north-south. The maximum depth of the palaeochannels is 45 m below surface. No uranium mineralisation has been detected so far.

2.1 Renewal activities

The proposed project is for the exploration of nuclear fuel minerals. As part of the proposed exploration project, the following activities are envisaged:

Work planned for second period of tenure (January 2023 to December 2025) includes:

- HLEM surveys to better define palaeochannels, particularly in the eastern portion of the tenement where the SKYTEM survey failed to detect elevated conductivity.
- A total of 2,000 m of RC drilling for exploration with downhole gamma logging.
- Diamond drilling (approx. 100 m) to provide samples for mineralogical and geochemical study.



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 7436 in 2020-2022.

Work carried out in the first period of tenure (January 2020 to December 2022) included:

- 1,043 line km of SKYTEM airborne EM surveying covering the entire tenement
- Drilling of 57 reverse circulation drill holes (1,304 m) in the western part of the tenement
- Downhole gamma logging, in order to estimate uranium grade

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 7436. The EMP provides the technical details for each mitigation, monitoring and institutional measure, 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;



Exploration Activities on EPL 7436 - Compliance Report

Elevate Uranium (Pty) Ltd.

- 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.



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.



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, 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 	- Compliant	- The proponent will continue to ensure mitigation measures are in place as per the EMP.
	- 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. 	– Compliant	 The proponent will continue to ensure mitigation measures are in place as per the EMP.



Activity	Potential Impacts	Management/Mitigation Measures	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 		
Han of	Naire	 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. 		The proposant will continue
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. 		 The proponent will continue to ensure mitigation measures are in place as per the EMP.
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. 	– Compliant	- The proponent will continue to ensure mitigation measures are in place as per the EMP.



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, andAvoid off road driving.	- Compliant	 The proponent will continue to ensure mitigation measures are in place as per the EMP.
	- Reduced soil quality	 Use existing tracks where possible Refueling to occur in designated areas with drip trays, and Avoid natural drainage lines 	– Compliant	- The proponent will continue to ensure mitigation measures are in place as per the EMP.
	– Injure or kill animals	 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 	– Compliant	- The proponent will continue to ensure mitigation measures are in place as per the EMP.



Activity	Potential Impacts	Management/Mitigation Measures	Compliance	Comments
	- Removal of vegetation – loss of flora and fauna,	 No animals or birds may be collected, caught, consumed or removed from site by the Contractor or personnel on site. Use existing tracks where possible. Route new tracks around established and protected trees, and clumps of vegetation 	– Compliant	- The proponent will continue to ensure mitigation measures are in place as per
	protected/important species	 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. 		the EMP.
Site and ground preparation - creation of access tracks	– Creation of dust	As above	- Compliant	 The proponent will continue to ensure mitigation measures are in place as per the EMP.
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 Exploration Manager to be informed	- Compliant	- The proponent will continue to ensure mitigation measures are in place as per the EMP.



Activity	Potential Impacts	Management/Mitigation Measures	Compliance	Comments
	- Heritage remains	 Exploration Manager to visit the site and 	– Compliant	- The proponent will continue
		determine whether work can proceed		to ensure mitigation
		without damage to findings, mark		measures are in place as per
		exclusions boundary and		the EMP.
		- 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.		



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.



Activity	Potential Impacts	Management/Mitigation Measures	Compliance	Comments
		 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. 		
Generation of waste	 Nuisances (odors and visual) Land use, and Litter (nuisance and ecological risk). 	 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.



Activity	Potential Impacts	Management/Mitigation Measures	Compliance	Comments
Posourco uso	In officient was of	 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 	Compliant	The propoport will continue
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.



4 CONCLUSION AND RECOMMENDATIONS

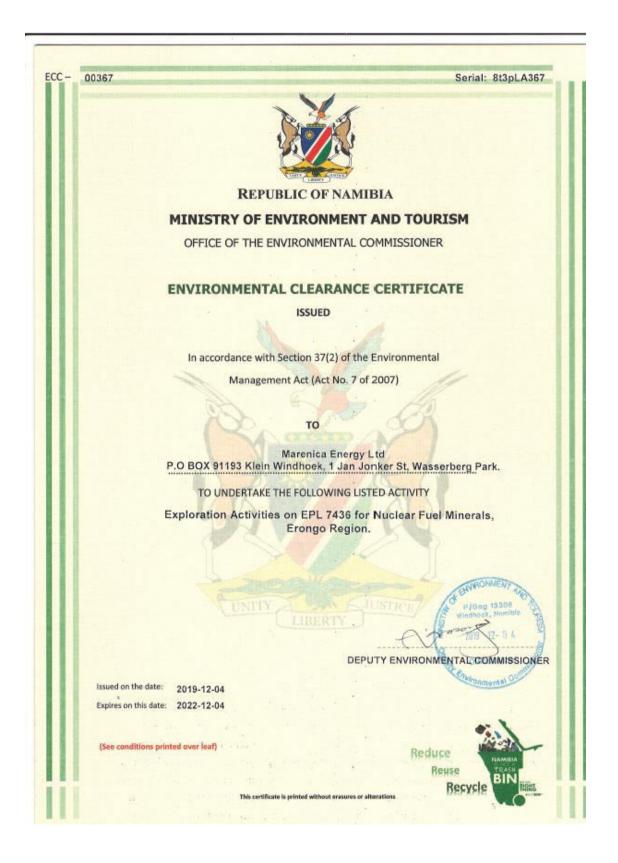
All proposed activities shall be carried out in compliance with the relevant requirements and conditions of the granted licence in accordance with the approved EMP. It is recommended that the Proponent continues to adhere to all environmental legislation and company standards to ensure that best practical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



APPENDIX A: ENVIRONMENTAL MANAGEMENT PLAN



APPENDIX B - ENVIRONMENTAL CLEARANCE CERTIFICATE

















ENVIRONMENTAL MANAGEMENT PLAN

EXPLORATION ACTIVITIES ON EPL 7278, 7279 AND 7436 FOR NUCLEAR FUEL MINERALS,

ERONGO REGION



AUGUST 2019



TITLE AND APPROVAL PAGE

Project Name: Environmental Management Plan for Exploration Activities on EPLs: 7278,7279 &

7436 for Nuclear Fuel Minerals, Erongo Region

Project Number: ECC-76-237-REP-01-D

Client Name: Marenica Energy Ltd

Ministry Reference: NA

Status of Report: Final for Government Record Submission

Date of issue: August 2019

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DEFINITIONS AND ABBREVIATIONS

ECC	Environmental Compliance Consultancy
EIA	Environmental Impact Assessment
EMA	Environmental Management Act
EMP	Environmental Management Plan
EPL	Exclusive Prospecting Licence
MET	Ministry of Environment and Tourism
MME	Ministry of Mines and Energy
PM	Project Manager
MSDS	Material Safety Data Sheet
PPE	Personal Protective Equipment



1. INTRODUCTION

1.1. PROJECT BACKGROUND

Environmental Compliance Consultancy (ECC) has compiled this Environmental Management Plan (EMP) in terms of the Environmental Management Act, 2007 on behalf of Marenica Energy Ltd. Marenica Energy Ltd (Marenica) is an Australian Securities Exchange Listed Company that has various projects in Namibia, including Exclusive Prospecting Licences (EPL) on the following 6987, 3308 and MDRL 3287 in the Erongo Region. Marenica has also developed a uranium concentration process that is unique and ground-breaking, lowering the extraction cost of uranium at the Marenica deposit as well as various environmental benefits. This *U-pgrade*TM 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.

Marenica is seeking to explore further uranium mining opportunities and propose to undertake exploration activities on EPL 7278, 7279 & 7436 for Nuclear Fuel Minerals in the Erongo Region. The EPLs are in the Namib-Naukluft National Park approximately 80 km south-east of Walvis Bay off the C14 as illustrated in **Error! Reference source not found.**.

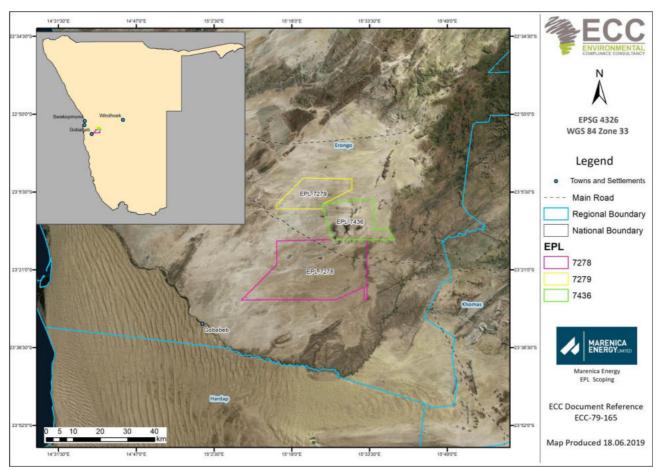


FIGURE 1: Locality of EPLs 7278, 7279 & 7436

1.2. Environmental Regulatory Requirements

The proposed project is considered as a listed activity as stipulated in the Environmental Management Act 7 of 2007 and the Environmental Impact Assessment Regulation, 2007 (No. 30 of 2011). Therefore, an application for an environmental clearance certificate is to be submitted. An Environmental Scoping Report and Environmental Management Plan (EMP) are required to be submitted as part of the application process, as well as to support the

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decision-making process. This report presents the EMP and has been undertaken in terms of 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 measure 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 is 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 is added where uncertainty exist, if there is any. 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 the following EPLs 7278, 7279 & 7436.

1.4. MANAGEMENT OF THIS EMP

The proponent, Marenica Energy Ltd 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 health and 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

ECC, a Namibian consultancy (registration number Close Corporation 2013/11401), has prepared this EMP on behalf of the proponent. ECC operates exclusively in the environmental, social, health and safety fields for clients across Southern Africa, in both the public and private sectors. ECC is independent of the proponent and has no vested or financial interest in the proposed project, except for fair remuneration for professional services rendered.

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

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Environmental Compliance Consultancy

PO BOX 91193

Klein Windhoek, Namibia Tel: +264 81 669 7608

Email: info@eccenvironmental.com

1.7. STRUCTURE OF THIS EMP

The report has the following structure:

- Chapter 1 Introduction
- Chapter 2 Environmental management framework
- Chapter 3 Communication and Training
- Chapter 4 Incident Reporting
- Chapter 5 Compliance and enforcement
- Chapter 6 Surface and ground water management plan
- Chapter 7 Waste Management Plan
- Chapter 8 Spill Management Plan
- Chapter 9 Air Quality Management
- Chapter 10 Implementation of the EMP



2. ENVIRONMENTAL MANAGEMENT FRAMEWORK

This EMP provides measures, guidelines, and procedures for managing and mitigating potential environmental impacts. The EMP also indicates monitoring and reporting guidelines and sets responsibilities for those carrying out management and mitigation measures.

2.1. OBJECTIVES AND TARGETS

Environmental objectives and targets have been developed so that exploration activities can minimise potential impacts on the environment, as far as reasonably practicable, for example by following a mitigation hierarchy.

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.

2.2. Organisational Structure, Roles and Responsibilities

The proponent shall provide a project team to oversee and undertake the preparation and exploration activities, which will 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 project, which will be supported by the proponent.

The proponent shall be responsible for:

- Ensuring all members of the project team, including contractors, comply with the procedures set out in this EMP
- 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 1 - ROLES AND RESPONSIBILITIES

ROLE	RESPONSIBILITIES & DUTIES		
Proponent	 Responsible for the management and implementation of the EMP Ensure environmental policies are 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 health and safety measures. 		
Exploration Management	 Oversee exploration activities Monitor 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. 		

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ROLE	RESPONSIBILITIES & DUTIES		
Site Manager	 Ensure 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 Report any non-compliance or accidents to the Project Manager Receive, recording and responding to complaints Ensure adequate resources are available for the implementation of the EMP 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 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 Project Manager, 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 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 surrounding area.

2.5. 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. A list 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 2 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.

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TABLE 2- ENVIRONMENTAL RISKS AND ISSUES, AND MITIGATION AND MONITORING MEASURES

RECEPTOR	POTENTIAL IMPACTS	MANAGEMENT/MITIGATION MEASURES	MONITORING REQUIREMENTS	RESPONSIBILITY
Groundwater and soil	- Spillage may lead to soil and groundwater contamination - Drilling can cause reduction in soil quality (through soil contamination) - Soil erosion can be caused through vegetation clearance and possible creation of tracks.	 Safe delivery and handling: Training employees and toolbox talks Good housekeeping across the site Spill kits to be placed at designated areas across the site 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 project manager and Ministry of Mines and Energy Equipment to be well maintained and serviced regularly The use of hydrocarbons under 200 litres can be used for mobile refuelling or servicing Topsoil should be separately stockpiled to be re-spread when backfilling Equipment must be in good condition to ensure that the oil spills do not contaminate the site In the unlikely event, extraction volumes of water shall be minimal during exploration and where possible, water from existing water sources shall be used. Storage: Fuel to be stored in tanks bakkies and bunding will not be practically possible. Refuelling: Drip tray to be used during refuelling of vehicles A funnel or similar should be available and used to avoid spillage during decanting Equipment must be in good condition to ensure that the oil spills do not contaminate the site. 	 Daily observations when fuels are delivered and handled Supervision during refuelling Weekly observations monitor containment and storage 	Exploration manager





RECEPTOR	POTENTIAL IMPACTS	MANAGEMENT/MITIGATION MEASURES	MONITORING REQUIREMENTS	RESPONSIBILITY
Socio- economic	 Employment creation and skills development Opportunities during the exploration phase (Approx. 10-20 jobs) 	 Maximise local (e.g. Topnaar community) 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	Exploration managerEmployees
Terrestrial and ecology	- Possible injury or death of animals - Poaching - Habitat fragmentation from clearing, pitting and trenching - Habitat loss from excessive clearing	 Use existing tracks where possible Route new tracks around established and protected trees, and clumps of vegetation Identify rare, endangered, threatened and protected species and demarcate them and avoid removing them In the unlikely event, all workers on-site are to be notified to avoid any excluded areas or species Progressive rehabilitation during the exploration phase should be applied No camping within river beds Avoid setting exploration sites and camps on visible game tracks Natural drainage patterns should be restored if disturbed Relocation of protected plant species if disturbance cannot be avoided. No poaching 	- Daily visual inspection during construction of new access tracks/widening	 Exploration manager Employees Site manager
Air quality	 Dust generation can impact public health and visibility Impact on fauna and flora 	 Use existing access roads and tracks where possible Restricted speeds (<30km/h) Provide protective masks and eyeglasses to employees in dusty working environments Specific activities that may generate dust shall be avoided during high wind events, e.g. soil preparation activities 	– Daily observations	ExplorationmanagerSite manager
Heritage	Impact on viewshed/landscape surrounding heritage features	If the 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 Manager to be informed - Site Manager to visit the site and determine whether work can proceed without damage to findings, mark exclusions boundary	Daily observations	Exploration managerSite manager

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RECEPTOR	POTENTIAL IMPACTS	MANAGEMENT/MITIGATION MEASURES	MONITORING REQUIREMENTS	RESPONSIBILITY
Community Environment	- Nuisances (odours and visual), and - Litter (nuisance and ecological risk) - Damage, disturbance or interference with research equipment or experiments	 If work cannot proceed without damage to findings, Site Manager is to inform the Environmental Manager who will get in touch with an archaeologist for advice An archaeological specialist is 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) 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 appropriate. Training and toolbox talk to workers shall be provided Ensure good housekeeping across the site Implement the waste management hierarchy across the site: avoid, reuse, and recycle Waste shall be collected and shall be removed regularly to avoid bad odours It is unlikely that hazardous material and wastes will be produced, however, if they do, they shall be managed safely and responsibly to prevent contamination of soils, pollution of water and/or harm to people or animals as a result of the use of these materials, and Hazardous and non-hazardous waste shall be stored separately at all times Identify research equipment or experiments and ensure zero damage or disturbance No persons shall enter the Namib Naukluft Park with a plastic bag unless; Designated to be used for the disposal of waste; Used for sampling or analysis; That constitutes or form an integral part of, the packaging in which goods are sealed prior to sale in the local market or for export; or 	- Daily observations - Weekly checks	- Exploration manager - Employees
Topography and landscape	Environmental disturbance Loss of flora and fauna	 That it is a transparent resealable bag Make use of existing tracks if available When developing a new track from an existing road ensure the junction is discreet but is also safe 	– Daily observations – Weekly checks	-

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RECEPTOR	POTENTIAL IMPACTS	MANAGEMENT/MITIGATION MEASURES	MONITORING REQUIREMENTS	RESPONSIBILITY
	- Disturbance of migratory animals in the area	 Avoid creating new access tracks on visible game tracks or routes or movement corridors between grazing and water resources Monitor the condition of the track throughout the exploration period Do not needlessly remove vegetation Rehabilitate tracks after use 		
Resource use	Inefficient use of water resources	 Use water effectively and efficiently by following the reduce, recycle and re- use approach 	Daily observations	– Explorationmanager– Employees

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3. COMMUNICATION AND TRAINING

3.1. COMMUNICATIONS

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

- Ensure all personal are afforded the opportunity to attend an environmental site induction that sets out their requirements in relation to this EMP
- Ensuring audits and inspections are undertaken regularly on a risk-based schedule
- Toolbox talks, including instruction on incident response procedures
- Deliver project-specific environmental briefings where required
- Ensure all personnel have access to the EMP
- Ensure operators of key activities and environmentally sensitive operations are briefed and understand their requirements.

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. Environmental Emergency and Response

TABLE 3 - EMERGENCY CONTACT DETAILS

TOWN	AMBULANCE	POLICE	FIRE BRIGADE
Swakopmund	+264-64 410 6000	219 048 or 10111	+264 81 128 5613
Walvis Bay	+264 81 129 3875	219 048 or 10111	+264 81 122 0833 or 081 122 0888

For large-scale spills and other significant environmental incidents, the fire services should be contacted as required and the MET office informed of the incident (telephone +264 61 284 2111, Windhoek and +264 64 684 072, Ganab). All correspondence with MET should be undertaken by the manager.

For the clean-up of smaller spills, the relevant Material Safety Data Sheet (MSDS) should be consulted to determine the appropriate clean-up procedure. Basic spill response training will be provided as part of the site environmental induction, spill response equipment, including relevant MSDS copies, will be provided in areas where potentially environmentally hazardous chemicals may be used.

3.3. 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 the 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. The Project Manager must maintain a complaint register that details the name of the complainant, date and time of the complaint, the action is 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, 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.

3.4. 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.

3.5. SITE INDUCTION

All personnel involved in the project shall be inducted to the site with a 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:
 - O What is meant by "environment" and the EMP?
 - O Why the environment needs to be protected and conserved?
 - o How exploration activities can impact on the environment?
 - O What can be done to mitigate against impacts?
- The inductee's role and responsibilities concerning implementing the EMP
- The sites environmental rules
- Details of how to deal with, and who to contact should any environmental problems 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. INCIDENT REPORTING

The proponent must have an accident and incident reporting system that covers all applicable statutory requirements. The section below sets out the minimum requirements for incident reporting and should be used as a basis for incident reporting, in the event that no incident reporting system exists.

4.1. MINOR INCIDENT OR "NEAR MISS"

Any incident or "near miss" involving the proponent, a nominated representative, any contractor, or its subcontractors or any third party's personnel, property, plant or equipment, must be

- 1) Orally reported to the Project Manager or the General Managers nominated Representative:
 - a.immediately and without delay
 - b. regardless of whether or not injury to personnel has occurred
 - c. or property or equipment has been damaged.
- 2) Written up and handed to the General Manager or the General Managers nominated Representative by the end of the shift. The written report should:
 - a.state all known facts and conditions at the time of the incident and
 - b. includes a preliminary assessment of the most likely potential consequences of the incident under the current circumstances.

4.2. SERIOUS INCIDENT

For any serious incident involving a fatality, or permanent disability, the incident scene must be left untouched until witnessed by a representative of the Police or MET personnel (e.g. poaching). This requirement does not preclude immediate first aid being administered and the location being made safe.

4.3. INCIDENT REPORT AND CLOSE OUT

The Project Manager must investigate the cause of all work accidents and significant incidents and must provide the results of the investigation and recommendations on how to prevent a recurrence of such incidents. A formal root-cause investigation process should be followed.

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5. COMPLIANCE AND ENFORCEMENT

5.1. ENVIRONMENTAL INSPECTIONS & COMPLIANCE MONITORING

Inspections and audits of the site will be managed and undertaken by the Exploration 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. All equipment will be inspected to ensure they are operating as per specification; no damage has been caused, and no leaks or spills have occurred. Any non-conformance shall be recorded, including the following details: a brief description of non-conformance; the reason for the non-conformance; the responsible party; the result (consequence); and the corrective action is taken and any necessary follow up measures required.

5.2. COMPLIANCE TO THE NATIONAL PARK

The EPLs (7278, 7279 & 7436) are located in the Namib Naukluft National Park therefore, 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 progress report every six months during exploration works.
- The proponent shall communicate with the National Park staff regularly to ensure that mutual expectations are clear and reinforced, including:
 - One month before undertaking the activities
 - Once during each scheduled program of works
 - Once a month whilst activities are in progress
 - 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 Ministry of Mines and Energy (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 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 as per the conditions stipulated in licence for EPLs (7278, 7279, & 7436). Conditions to operate in protected areas are set out in Annex 6 of the Policy are included in TABLE 4.

TABLE 4 - CONDITIONS TO OPERATE IN PROTECTED AREAS

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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 the Namib Naukluft Park, must be supplied to the MET officer in charge of the area.
- 2. Employee and personnel lists must be updated regularly (when any changes happen).
- 3. A Park Access permit must be obtained from the MET to enter the Namib Naukluft Park. 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 have 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 Namib Naukluft Park officials must be installed, especially to prevent and mitigate poaching.

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Environmental Conditions:

- 1. A six-monthly progress report and environmental management report must be submitted to the MET.
- 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 including the banning of plastic bags in the game park.
- 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 the 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, plants and avifauna 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 (especially with the eastern and south-western 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 Namib Naukluft Park.
- 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 temporary.
- 19. Mobile toilets (of a 'long drop' or pit latrine type) may be brought to site. 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 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.

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5.3. COMPLIANCE TO ENVIRONMENTAL PERMITS

5.3.1.1. FORESTRY PERMIT

In the unlikely event that some vegetation (excluding specially protected species) shall be cleared on the EPL sites to allow exploration activities to commence, the Forestry regulation Section 12 of 2007 shall be adhered to. A person is not authorised to harvest forest produce without a valid permit.

5.3.1.2. WATER PERMITS AND LICENCE

The Water Act (1956) governs the use of water resources in Namibia and is the enforceable piece of legislation for water related matters. The Water Resources Management Act (2013), passed but pending regulations (not enforced) provides an improved framework for managing water resources based on the principles of integrated water resource management, while not enforced it is considered best practice to adhere to the stipulations while ensuring compliance to the Water Act of 1956 is also maintained. A permit to abstract and use water may be required if boreholes are to be created, however this is unlikely.

5.4. WASTEWATER DISCHARGE PERMIT

In the event that the operations produce waste water a permit must be obtained. In order to obtain an effluent wastewater, permit the proponent should have the following information and complete the application form contained in Appendix A:

- Specification of the treatment system (type of technology)
- Description of major activities resulting in effluent generation
- List of contaminants (analysis of effluent samples)
- Effluent quality
- Points of discharge
- Show the present average quantities of incoming water, recycled water, final outflow, and
- Where final effluent discharged.

5.5. REPORTING

Reports shall be submitted to the Mining Commissioner in terms of the Minerals (Mining and Prospecting) Act, 1992. The proponent is required to report quarterly, and a report shall be submitted 60 days after the currency of the EPLs.

5.6. Non-Compliance

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 is considered if, for example:

- There is evidence of a 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.

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

5.7. 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.

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6. SURFACE AND GROUNDWATER MANAGEMENT PLAN

6.1. INTRODUCTION

Chemical and waste spills must be contained so as not to contaminate the soil or groundwater. Any contact with groundwater must be treated with exceptional care and reported immediately, to minimize the potential for contamination of an aquifer. It is important to limit the potential for wastewater seepage to groundwater.

This Surface and Groundwater Management Plan outlines appropriate surface and groundwater water management measures, monitoring programs and reporting procedures to be implemented.

6.2. OBJECTIVES

This Surface and Groundwater Management Plan has been prepared to minimise potential impacts on surface and groundwater resulting from the exploration activities on EPLs (7278, 7279 & 7436). It is important to report any contact with or contamination of groundwater to the environmental coordinator or site manager as soon as possible.

6.3. RESPONSIBILITIES

WORKFORCE AND ALL CONTRACTORS

Required to take all reasonable measures to prevent the discharge of sediments and pollutants from the site in to surface and groundwater sources. Report any contact with groundwater to the environmental coordinator.

ENVIRONMENTAL COORDINATOR

Will ensure that the objectives listed above are being met and provide performance feedback to the Project Manager.

6.4. Surface and Groundwater Management Measures

The Surface and Groundwater Management measures are designed to minimise the runoff of sediment-laden or polluted water/ effluent into the surrounding environment. Exploration activities that could potentially alter natural surface water and groundwater quality include:

- Chemical spills
- Refuelling
- Seepage of wastewater into groundwater
- Drilling
- Poor resource stewardship practices.

The following requirements are to be met to ensure that groundwater is not contaminated:

- Fuel/Oil and chemicals must be safely stored and removed.
- Any contact with surface or groundwater must be treated with exceptional care and reported immediately, to minimize the potential for contamination of an aquifer.

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TABLE 5 - WATER QUALITY MITIGATION MEASURES

Aspect	Mitigation Measure	Responsibility
Pollution	Visual monitoring and photographic record of any surface and/or	Environmental
control	groundwater intersected	coordinator
measures.	Visual monitoring during rainfall events for runoff of polluted	Environmental
	water	coordinator
	Vehicles and machinery are to be regularly serviced to minimise oil	Site manager
	and fuel leaks.	
	Good housekeeping shall be maintained and chemicals, and fuel	Site manager
	must be stored securely to prevent any accidental spills on the EPL	
	site	

6.5. Surface and Groundwater Quality Monitoring Programme

Every effort must be made throughout to preserve the quality of groundwater sources that the proponent may impact. Containment of waste and chemicals and the correct disposal thereof must be of an acceptable standard. Personnel must report any unusual conditions and intersection with surface and groundwater immediately to the environmental coordinator. A photographic record should be kept for future comparison.

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7. WASTE MANAGEMENT PLAN

7.1. INTRODUCTION

The exploration activities on EPLs, 7278, 7279, & 7436) will generate both solid and liquid waste. The potential types of waste generated at the facility are typical for domestic home operations. All waste will be disposed of at the registered waste disposal unit in Swakopmund.

7.2. OBJECTIVES

This Waste Management Plan has been prepared to ensure the proper storage, transport, treatment and disposal of waste and where possible will follow the waste hierarchy, which encourages waste avoidance and waste reduction followed by reuse, recycling and reclamation, before waste treatment and waste disposal.

7.3. ROLES AND RESPONSIBILITIES

WORKFORCE AND ALL CONTRACTORS

- Required to ensure that all waste generated during exploration activities is removed and disposed of accordingly including providing evidence in the form of waste transfer receipts for the waste moved off site.
- Ensure no windblown rubbish pollutes the environment, and
- Remove waste on a regular basis to prevent vermin.

SITE MANAGER AND ENVIRONMENTAL COORDINATOR

- Required to inspect receipts and evidence of correct waste handling.
- Review waste management practices regularly during exploration on EPLs (7278, 7279, & 7436) sites.

7.4. SOLID WASTE

Waste will be produced on site, including sewerage and solid waste such as packaging. All solid waste, shall be collected, taken off site and disposed of at the nearest waste management Facility (Walvis Bay or Swakopmund).

Waste will be controlled through prevention and mitigation measures as follows:

- Reduce, reuse and recycle where possible
- Storage of domestic waste on site may result in the attraction of unwanted scavengers and should be disposed
 of the accredited site as soon as is feasible, and
- Hydrocarbon and chemical contaminated solids have the potential to cause contamination to the soil, ground and/or surface water, thus correct storage and disposal methods are required.

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TABLE 6 - WASTE MITIGATION MEASURES

Aspect	Mitigation Measure	Responsibility
Environmental Contamination from liquid waste	Hydrocarbon and chemical contaminated solids must be storage correctly and disposed of by registered companies. Safe disposal certificates must be kept and provided to the Project Manager on request.	Site manager and environmental coordinator Environmental coordinator
Littering and Environmental Contamination from waste	No littering by workers shall be allowed. All litter on and around the EPL site must be picked up and placed in the bins provided.	Proponent All staff
	The site should be kept tidy and free of litter at all times. All domestic and general waste produced on a daily basis should be cleaned and contained daily. No solid waste landfill will be established at the site.	All staff Proponent
	Waste may be burnt on site as per the environmental condition. No waste shall be buried anywhere unless when advised to do so by the local Municipality.	Proponent
	 No persons shall enter the Namib Naukluft Park with a plastic bag unless; Designated to be used for the disposal of waste; Designated for agricultural purposes; Used for sampling or analysis; That constitutes or form an integral part of, the packaging in which goods are sealed prior to sale in the local market or for export; or That it is a transparent resealable bag 	All staff

7.5. WASTE DISPOSAL MONITORING

Certificates providing the safe disposal of waste from a permitted waste disposal site must be provided to the Project Manager upon request.

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8. SPILL MANAGEMENT PLAN

8.1. Introduction

The uncontrolled release of fuels and other chemicals has the potential to result in the contamination of soil, groundwater and surface water, which may lead to serious environmental harm. On this basis, the storage and use of fuels or other chemicals must be managed to minimise the risk of a release, and measures must be in place to promptly address impacts should a release occur.

8.2. OBJECTIVES

This Spill Management Plan has been prepared to minimise the potential for the uncontrolled release of fuels, oils and other chemicals. Preventative measures to minimise the potential for a spill are listed. Should a spill occur, this plan provides guidance for the proponent on the appropriate spill response measures.

8.3. ROLES AND RESPONSIBILITIES

WORKFORCE AND ALL CONTRACTORS

Required to implement the spill prevention and response measures listed below.

SITE MANAGER/ ENVIRONMENTAL COORDINATOR

Required to ensure that appropriately implemented spill prevention measures listed below and that any spills have been appropriately managed and reported.

8.4. SPILL PREVENTION MEASURES

The following management measures are to be implemented by the Proponent:

- Spill kits are to be made available throughout the site. The kits are to include, as a minimum, the following items:
 - Absorbent materials
 - Shovels
 - Heavy-duty plastic bags
 - o Protective clothing (e.g. gloves and overalls), and
 - o Major servicing of equipment shall be undertaken offsite or in appropriately equipped workshops
- Provision of adequate and frequent training on spill management, spill response and refuelling must be provided to all onsite staff
- Fuels, lubricants and chemicals are to be stored within appropriately sized, impermeable bunds or trays with a capacity not less than 110% of the total volume of products stored
- All fuel and chemical storage and handling equipment (including transfer hoses, etc.) shall be well maintained
- Storage and handling of fuels and chemicals shall be in compliance with relevant legislation and regulations
- No refuelling is to take place within 50 metres of groundwater boreholes, surface water or streams, and

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 Material Safety Data Sheets are to be kept for each chemical used on site. These must be easily accessible to all personnel.

8.5. SPILL RESPONSE MEASURES

The primary concern, in the event of any spill, is the health and safety of any residents and contractors in the vicinity. Of secondary, but highly significant, importance, is the protection of water sources and then soil and vegetation.

The following points therefore apply to all areas on the site:

- Assess the situation for potential hazards.
- Do not come into contact with the spilled substance until it has been characterised and necessary personal protective equipment (PPE) is provided.
- Isolate the area as required.
- Notify the site manager or safety, health and environmental coordinator.

The following measures are to be implemented in response to a spill:

- Spills are to be stopped at source as soon as possible (e.g. close valve or upright drum)
- Spilt material is to be contained to the smallest area possible using a combination of absorbent material, earthen bunds or other containment methods
- Spilt material is to be recovered as soon as possible using appropriate equipment. In most cases, it will be
 necessary to excavate the underlying soils until clean soils are encountered
- All contaminated materials recovered subsequent to a spill, including soils, absorbent pads and sawdust, are to be disposed to appropriately licensed facilities
- The manager or safety, health and environmental coordinator are to be informed as soon as possible in the event of a spill, and
- A written Incident Report must be submitted to the Project Manager.

TABLE 7 - SPILL MITIGATION MEASURES

ASPECT	MITIGATION MEASURE	RESPONSIBILITY
Stored	Hazardous chemicals are to be stored in bunded areas	Site manager
Hazardous	Hazardous chemicals (such as fuels) are to be handled over areas	Site manager
Chemicals	provided with impervious surfaces	
	Spills of hazardous chemicals are to be contained and cleaned-up	All
	to ensure protection of the environment	
	All the necessary PPE required for the safe handling and use of	All
	petrochemicals and oils shall be provided to, and used or worn	
	by, the onsite staff	
Machinery and	Major servicing of equipment shall be undertaken offsite or in	Site manager
Equipment	appropriately equipped workshops	
Maintenance	For small repairs and required maintenance activities all	Site manager
	reasonable precautions to avoid oil and fuel spills must be taken	
	(e.g. spill trays, impervious sheets).	

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	Vehicles and machinery are to be regularly serviced to minimise oil and fuel leaks	Site manager
	All the necessary PPE required for maintenance activities must be	Site manager/
	issued to staff whose duty it is to manage and maintain the	environmental
	machinery and equipment.	Coordinator

8.6. SPILL REPORTING

All major petroleum product spills should be reported to the Ministry of Mines and Energy (MME) on Form PP/11 titled; Reporting of major petroleum product spill' attached as Appendix B.

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9. AIR QUALITY MANAGEMENT PLAN

9.1. Introduction

Particulate and gaseous emissions from vehicle exhausts, wind erosion and other activities associated with the project have the potential to affect amenity, safety, human health and the environment.

This Air Quality Management Plan describes the strategies and procedures that will be implemented to ensure that the health and amenity of construction workers and nearby sensitive receptors are protected from elevated concentrations of airborne dust and other gaseous emissions. In cases where generators and other machinery are used, there will be some release of exhaust fumes that will impact the immediate vicinity but will be of short duration.

9.2. OBJECTIVES

The main objective of the Air Quality Management Plan is to ensure that emissions from operational activities are controlled to an acceptable level and do not significantly impact-adjoining properties such as the neighbouring communities, farms or other sensitive receptors.

- As far as reasonably practical, activities should not generate visible dust.
- Machinery should not emit excessive exhaust fumes.

9.3. RESPONSIBILITIES

WORKFORCE AND ALL CONTRACTORS

To implement the necessary management practices in order to meet the objectives listed above.

SITE MANAGER/ ENVIRONMENTAL COORDINATOR

To ensure that the objectives listed above are being met and to provide performance feedback to the Project Manager.

9.4. AIR QUALITY MANAGEMENT PROCEDURES

Activities that may potentially emit dust during the operations include the following:

- Vehicle movements
- Machinery operations

The proponent will minimise the potential for dust generation by undertaking the following management measures, as required:

- Vehicle movements will be restricted to existing tracks.
- Appropriate speed limits will be set and enforced.
- Ground disturbance will be minimised as far as practical.
- Vehicles and machinery will be maintained so as to limit exhaust fume emissions.

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TABLE 8 - AIR QUALITY MITIGATION MEASURES

ASPECT	MITIGATION MEASURE	RESPONSIBILITY
Dust and fumes	Vehicles must adhere to speed limits so as to avoid	Site manager and
	producing excessive dust.	contractor
	Vehicles and machinery are to be regularly serviced	Site manager and
	according to the manufacturers' specifications and kept in	contractor
	good working order so as to minimise exhaust emissions.	

9.5. AIR QUALITY MONITORING PROGRAMME

Visual monitoring of exploration activities can ensure the minimum discharge of airborne dust and other emissions according to the Air Quality Management Plan.

9.6. Noise Impacts

The sensitive receptors within proximity to the site are the tourists, local communities and wildlife. Activities on the EPLs (7278, 7279 & 7436) have the potential to generate nuisance noise that can impact the quality of life for neighbouring residents and tourism activities with the park however this potential impact are minimal due to the nature of the exploration methods employed.

Notwithstanding the above point, the proponent should continue to ensure potential noise sources are mitigated through measures such as:

- Avoid noise generating activities at night
- Avoid noise generating activities that could impact other users of the park area by ensuring noisy activities are avoided especially at night, ensure appropriate measures are put in place to rectify noise compliant should they occur.
- Scheduling of works to avoid disturbance between the hours of 5 pm and 7 am, and
- Procedures for receiving complaints from nearby land users or residents to be in place and mitigation measures to be implemented should construction generate excessive noise, which is unexpected.

Occupational noise is managed through the health and safety management plan and therefore not applicable to this EMP.

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10. IMPLEMENTATION OF THE EMP

This Environmental Management Plan (EMP):

- A. Has been prepared according to a contract with the proponent
- B. Has been prepared based on information provided to ECC up to August 2019
- 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.

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APPENDIX A: APPLICATION FOR A WASTEWATER DISCHARGE LICENCE



= 4 3/	(004) 000 7400	DDIVATE DA 0 40404
FAX:	(061) 208 7160	PRIVATE BAG 13184
TEL:	(061) 208 7111	WINDHOEK
REFEREN	CE NO:	NAMIBIA
APPLIC	CATION FOR A WASTEWA	TER DISCHARGE LICENCE, IN TER
OF PA	RT XIV OF THE WATER RE	SOURCES MANAGEMENT ACT, 20
(Act No	o. 24 of 2004 - as publish	ed in the Government Gazette of
Republi	c of Namibia, No. 3357,	of 23 December 2004, Governm
Notice I	No. 284)	
A. GEN	ERAL INSTRUCTIONS	
1. Applica	tions must be submitted in duplicate	to:
	The Permanent Secretary Attn.: Law Administration	
	Ministry of Agriculture, Water ar	nd Forestry
	Private Bag 13184 WINDHOEK	
2. Applica	ition Fee (to accompany this docume	ent): N\$
	rious sections have to be completed	
	tion B & C - All applicants	
		t relevant to technology employed in your works.
Sec	tion E - All applicants (compul	sory!)
4. Only the	e relevant Sections that have been fi	lled in need to be submitted with this application
5. A sepa	rate application needs to be filled in	for each different plant/works.
NAME O	F TREATMENT PLANT/WORKS	:
IIAME O	(e.g. town, settlement)	GPS Coordinates:
PLACE:		



1.	Name of applicant:			
2.	Address - Contact Person:			
	- Postal:			
	- Physical:			
	- Tel No.:			
	- Fax No.:			
	- E-mail:			
3.	Region in which plant is situated:	<u> </u>		
4.	Constituency in which plant falls:			
5.	Type of establishment: (e.g. school, town, industry)			
6.	Source of water supply: (e.g. borehole, river, sea)			
7.	Total water consumption:			m³/day ADWF*
	(*ADWF = Average Dry Weather Flow)			m³/day ADWF*
	 Consumption based on the average usage over a 12-month 	*		m³/day ADWF*
	period. List different sources separately			m³/day ADWF*
8.	Application:			
	Prepared by:	Name :	Position:	
	(e.g. Consultant)	Signature:	Date:	
	Responsible Executive:	Name :	Position:	
		Signature:	Date:	
		-		

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		the following information must be contained in this application either from the re or as an attachment thereto (see also details in Appendix A):
NAME	OF TR	EATMENT PLANT/WORKS:
1. Тур	e of efflu	uent (please also refer to Section D for classifications):
2. Site	of work	s:
2.		t a site plan indicating the exact location (or intended location) of the works. This plan should be (as a minimum):
	2.1.1	General location of the works with regards to settlements, main roads, boreholes, rivers etc.
	2.1.2	Layout plan of property showing all existing and proposed water pipes and effluent and drainage lines in distinctive colours.
	2.1.3	Topographical plan/area photograph/contour plans showing the property and effluent treatment plant in relation to residential areas, rivers, pans, dams, lakes and boreholes.
	2.1.4	Contour plans indicating the exact location of the effluent treatment works and point of discharge of final effluent in relation to watercourses that drain the area.
	2.1.5	Give the following information:
		2.1.5.1 Distance to nearest inhabitants:m
		2.1.5.2 Distance to nearest water abstraction point (e.g. river, borehole):m
		2.1.5.3 Distance to nearest watercourse (e.g. dry river) and specify:m
		2.1.5.4 Wind direction (main/normal)
2.	2 Submi	t overall details of works:
	2.2.1	Type of effluent treatment system and a brief description of its method of operation. (If domestic effluents are dealt with by the local authority please enclose a letter from the authority confirming this agreement).
	2.2.2	Flow diagram/mass balances to show the present average quantities of incoming water, recycled water, final outflow, seepage and evaporation losses (all in m ³ /day).
	2.2.3	Layout orientation drawing indicating all major treatment units and fence around works.
	2.2.4	Complete flow diagram and key design parameters to include:
		2.2.4.1 Dimensions and design capacities of each unit process;
		2.2.4.2 Process Flow Diagram(s) and major instrumentation employed, e.g. water meters;
		2.2.4.3 Loadings on the system (e.g. hydraulic, COD, BOD, nitrogen, phosphate);
	2.2.5	Indicate allowances that have been made for future expansion and increased loads (if any).
	2.2.6	Methods of sludge disposal or recirculation.
	2.2.7	Disinfection of the final effluent (indicate dosing type, method, retention period and optimum disinfectant level in final effluent).
3.		oring boreholes for monitoring groundwater pollution over time must be available within 500 m point of final effluent discharge.
4.		e note: Additional information is required for new treatment plants (e.g. an environmental tassessment) - details can be obtained from the Department of Water Affairs and Forestry.
5.	delibe	evant information must be included with this application. It is a criminal offence to rately withhold vital information relevant to this application. Where applicants are found in contravention with this requirement, they may/will be prosecuted.

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plicar	its should only complete sections relevant to their specific effluent (please tick relevant box):
	D-1: Domestic Effluent - Includes wastewater collected in towns (excluding industrial effluent!), villages, schools, lodges, administration buildings.
	D-2: Industrial Effluent - Includes wastewater generated by any industry, factory, etc.
	D-3: Mining Effluent - Includes wastewater accumulated or collected due to mining operations (e.g. Acid mine wastewater)
	D-4: Combination/mix of various effluents (list major effluent streams on page 11)
inal E	fluent Reuse
ne pre	fluent Reuse essure on Namibia's existing fresh-water supplies can, to a great extent, be eased by the reuse of effluents for a variety of purposes including dust control, agriculture and industriates. Therefore, reuse of effluent after suitable treatment is encouraged.
he pre ensible rocess he all rcums hich s	essure on Namibia's existing fresh-water supplies can, to a great extent, be eased by the reuse of effluents for a variety of purposes including dust control, agriculture and industria
he preensible rocess he all rcums hich s npact	essure on Namibia's existing fresh-water supplies can, to a great extent, be eased by the reuse of effluents for a variety of purposes including dust control, agriculture and industrial cases. Therefore, reuse of effluent after suitable treatment is encouraged. Solvable reuse of an effluent is dependent upon its quality as well as many local cances and hence each application in this category needs careful and individual scruting thould be undertaken by a specialist in this field and must be supported by an environmental
he preensible rocess he all rcums hich s npact	essure on Namibia's existing fresh-water supplies can, to a great extent, be eased by the reuse of effluents for a variety of purposes including dust control, agriculture and industriates. Therefore, reuse of effluent after suitable treatment is encouraged. It is a many local transport of the supplication in this category needs careful and individual scruting thould be undertaken by a specialist in this field and must be supported by an environmental assessment study. It is a great extent, be eased by the error of the support of the suppo
he preensible rocess he all rcums hich s npact	essure on Namibia's existing fresh-water supplies can, to a great extent, be eased by the reuse of effluents for a variety of purposes including dust control, agriculture and industriates. Therefore, reuse of effluent after suitable treatment is encouraged. It is a many local transport of the supplication in this category needs careful and individual scruting thould be undertaken by a specialist in this field and must be supported by an environmental assessment study. It is a great extent, be eased by the error of the support of the suppo



D-2. INDUSTRIAL EFFLUENTS

2.1	Describe industry and major activities resulting in efflue	ent generation	
2.2	Capacity / Flowrates :		
	Design - Average daily flow		m.3/d
	- Peak hourly flow		m.3/h
	Actual (if in operation) - Average daily flow		m.3/d
	- Peak hourly flow		m.3/h
	If ponds are employed, state total surface area		m²
2.3	List only major contaminants (also attach full analysis o	of typical effluent sample)	
2.4	Type of treatment employed (give short overview of pro	ocess):	
2.5	List major treatment chemicals* employed in the unit pr	ocess(es):	
2.6	Final effluent quality after treatment (put envisaged final	I quality for a new plant):	
2.7	Sludge generation:		
	- Volume generated		m.3/d
	- Mass		kg/d (dry solid)
	- Method of disposal		
	- Place of disposal		
	- Major constituents		
	- If sludge ponds, state frequency of cleaning		
2.8	Do you employ cleaner production principles (CPP)? If "yes", elaborate:	Yes/No	
2.9	Is the following documentation included (give reason if	not)?	
2.0	Water (and waste) management plan: Decommissioning plan:	Yes/No Yes/No	

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^{*} For the chemicals employed, proper mass balances should be included that show chemical usage, movement and discharge within the factory/process(es). All safety aspects related to handling, storage and disposal of chemicals on site must be followed at all times.



D-4. COMBINATION OF VARIOUS EFFLUENTS

4.1	Describe major activities resulting in effluent generation	(e.g. type of	industry):		
4.2	Capacity / Flowrates of different streams (major only)	1	2	3	
4.2	Type (e.g. domestic, industrial, mining, others)				
	Design - Average daily flow				m ³ /d
	- Peak hourly flow				m ³ /h
	Actual (if in operation) - Average daily flow				m³/d
	- Peak hourly flow				m ³ /h
4.3	List only major contaminants (also attach full analysis o	f typical efflue	ent sample)		
4.4	Type of treatment employed (give short overview of pro	cess)			
4.4		/			
4.5	List major treatment chemicals employed in the unit pro	cess(es):			
4.6	Final effluent quality after treatment (put envisaged final	l quality for a	new plant)		
4.7	Sludge generation:				
	- Volume generated				m ³ /d
	- Mass				kg/d (dry solid)
	- Method of disposal				1 (2)
	- Place of disposal				
	- Major constituents				
	- If sludge ponds, state frequency of cleaning				

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E. FINAL EFFLUENT DISPOSAL

1.4.1	Where is the final effluent discharged to? (E.g. French drain, pumped out by Local Authority, dry river course, pe	erennial river, etc.)
1.4.2	IF soakaway, state: - Type of soil - Suitability/porosity of soil - Size of soakaway area - Include topography and plan of soakaway area	
1.4.3	Is there any post-treatment applied? (e.g. disinfection, filtration)	
1.4.4	Is the final effluent re-used? (Yes/No)	
	If "Yes", complete:	
	- Do you have a reuse licence?	
	- Amount of water that will be re-used:	m³/d
	- For what application:	
	- Type of irrigation used (if applicable):	
	- What crops are grown:	
	- Area of land that will be irrigated:	ha
1.4.5	Name (if any) downstream users (downstream of discharge point).	
1.4.6	Past records of complaints or objections by people living close to work	KS:

 $\frac{\text{Reuse:}}{\text{A reuse licence is required - details can be obtained from the Department of Water Affairs and}$ Forestry.

Irrigation:

The crops allowed to be irrigated are dependent upon effluent quality (details will be supplied on request by the Department of Water Affairs and Forestry).

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APPENDIX B - REPORTING OF MAJOR PETROLEUM PRODUCT SPILL FORM PP/11

64 Government Gazette 23 June 2000 No. 2357 FORM PP/11 MINISTRY OF MINES AND ENERGY PETROLEUM PRODUCTS AND ENERGY ACT, 1990 PETROLEUM PRODUCTS REGULATIONS (2000) REPORTING OF MAJOR PETROLEUM PRODUCT SPILL (Regulation 49(1)) (Please note that where form is completed by hand it must be completed in capital letters) 1. Name of licence/certificate-holder/person (*Delete whichever is not applicable) 2. Postal address 3. Physical address 4. Telephone Number (including code) 5. Facsimile Number (including code) 6. Licence/certificate* number and date of issue, if applicable (*Delete whichever is not applicable) 7. Date of petroleum product spill 8. Location of petroleum product spill 9. Reasons for petroleum product spill



		spill
11. Quantity of the petrole	eum product spill	
12. Indicate whether the	petroleum product has or will have a	ny negative effect on
	afety and health of person or the pro	
	٧	
		tuncii in connection
with petroleum product s therewith		
therewith		
DECLARATION		
DECLARATION		
DECLARATION		
DECLARATION I, hereby declare that the info		
DECLARATION I, hereby declare that the info		