

Submitted to: Kuiseb Copper Company (Pty) Ltd Attention: Dr Branko Corner and Dr Peter Hildebrand P O Box 2055 Swakopmund Namibia

REPORT:

EXPLORATION ACTIVITIES ON EPL 7730 COMPLIANCE REPORT

PROJECT NUMBER: ECC-113-482-REP-56-A

REPORT VERSION: REV 01

DATE: 08 APRIL 2024





Exploration activities on EPL 7730 compliance report

Kuiseb Copper Company (Pty) Ltd

TITLE AND APPROVAL PAGE

Project Name: Exploration activities on EPL 7730 compliance report

Client Company Name: Kuiseb Copper Company (Pty) Ltd

Client Name: Dr Branko Corner and Dr Peter Hildebrand

Ministry Reference: APP-002876

Status of Report: Final for Government submission

Project Number: ECC-113-482-REP-56-A

Date of issue: 08 April 2024

Review Period N/A

ENVIRONMENTAL COMPLIANCE CONSULTANCY CONTACT DETAILS:

We welcome any enquiries regarding this document and its content. Please contact:



Environmental Compliance Consultancy PO Box 91193, Klein Windhoek, Namibia

Tel: +264 81 669 7608

Email: info@eccenvironmental.com



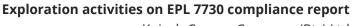
Exploration activities on EPL 7730 compliance report

Kuiseb Copper Company (Pty) Ltd

Quality Assurance	
Authors:	
	Samuel Shinyemba Environmental Compliance Consultancy
Checked By:	Environmental compliance consultancy
	 Jessica Bezuidenhout
Approved By:	Environmental Compliance Consultancy
	Jessica Bezuidenhout
	Environmental Compliance Consultancy

DISCLAIMER

The report has been prepared by Environmental Compliance Consultancy (Pty) Ltd (ECC) (Reg. No. 2022/0593) on behalf of the Proponent. Authored by ECC employees with no material interest in the report's outcome, ECC maintains independence from the Proponent and has no financial interest in the Project apart from fair remuneration for professional fees. Payment of fees is not contingent on the report's results or any government decision. ECC members or employees are not, and do not intend to be, employed by the Proponent, nor do they hold any shareholding in the Project. Personal views expressed by the writer may not reflect ECC or its client's views. The environmental report's information is based on the best available data and professional judgment at the time of writing. However, please note that environmental conditions can change rapidly, and the accuracy, completeness, or currency of the information cannot be guaranteed.





EXECUTIVE SUMMARY

The Proponent, Kuiseb Copper Company (Pty) Ltd (KCC), and Rio Tinto Mining and Exploration Ltd (RT), operating under a formal joint venture agreement, allow KCC full control over the exploration program for exclusive prospecting licence (EPL) 7730 in the Khomas Region, Namibia.

An environmental management plan (EMP) was developed and endorsed for EPL 7730, adhering to the approved environmental clearance certificate issued by the Ministry of Environment, Forestry and Tourism (MEFT) on June 8, 2021 (ECC-01411), valid until June 8, 2024.

Engagement with the farmers occurred during the specified period prior to the commencement of field exploration activities on or over their farms, and no environmental non-compliance or grievances were recorded.



TABLE OF CONTENTS

1	Introduction	7
1.1	Background information	7
1.2	Purpose of this document	9
1.3	Proponent details	9
1.4	Environmental assessment practitioner	9
1.5	Landowner liaison	11
2	Background to EPL 7730	12
2.1	Renewal activities	12
3	Environmental compliance audit	13
3.1	Site activities	13
3.	.1.1 Bi-annual monitoring and reporting	13
3.	.1.2 Activities for the monitoring period	
3.2	Environmental management plan and auditing	14
3.3	Compliance audit findings	14
3.4	Issues of non-compliance	14
4	Exploration EMP Compliance Audit	15
5	Conclusion	
Appe	endix A – Exploration environmental management Plan for EPL 7730	32
Appo	endix B – EPL 7730 Environmental clearance certificate	33
App	endix C – Bi-annual environmental reports 2021 - 2023	35
LIS	T OF TABLES	
Table	e 1 – Proponent details	9
	e 2 – Exploration EMP compliance audit (EPL 7730)	
LIS ⁻	T OF FIGURES	
Figur	re 1 – Site locality map for EPL 7730	8
	re 2 – Locality map of EPL 7730 with farm boundaries	







ABBREVIATIONS

Abbreviation	Description
AEM	airborne electromagnetic
CA	consent agreement
ECC	Environmental Compliance Consultancy (Pty) Ltd
e.g.	for example
EMP	environmental management plan
EPL	exclusive prospecting licence
etc.	et cetera
GPS	global positioning system
I&APs	interested and affected parties
JV	joint venture
km	kilometre
km/h	kilometre per hour
KCC	Kuiseb Copper Company (Pty) Ltd
L	litre
m	metre
MEFT	Ministry of the Environment, Forestry and Tourism
MME	Ministry of Mines and Energy
MSDS	material safety data sheets
No.	number
RES	Remote Exploration Services
RT	Rio Tinto Mining and Exploration Ltd
SOP	standard operating procedure



1 INTRODUCTION

1.1 BACKGROUND INFORMATION

Kuiseb Copper Company (Pty) Ltd (KCC) (referred to as the 'Proponent') and Rio Tinto Mining and Exploration Ltd (RT), through a formal KCC-RT joint venture agreement, permits KCC to fully operate the exploration programme for exclusive prospecting licence (EPL) 7730 for base and rare metals, and precious metals in the Khomas Region, Namibia. EPL 7730 is currently registered under KCC with the Ministry of Mines and Energy (MME).

Exploration is a listed activity in terms of the Environmental Management Act, No.7 of 2007, and associated Regulations (2012). An environmental management plan (EMP) was compiled and approved for EPL 7730 (Appendix A) in line with the approved environmental clearance certificate, which was issued by the Ministry of Environment, Forestry and Tourism (MEFT) on 08 June 2021 (ECC-01411) (Appendix B) and expires on 08 June 2024. Additionally, a separate standalone environmental clearance certificate was issued for airborne electromagnetic (AEM) surveys over EPL 7730. The conditions and commitments of these documents must be adhered to during all exploration activities.

Figure 1 provides a locality map of EPL 7730, in relation to existing towns and major roadways. EPL 7730 is located southeast (SE) of the city of Windhoek, in the Khomas Region.



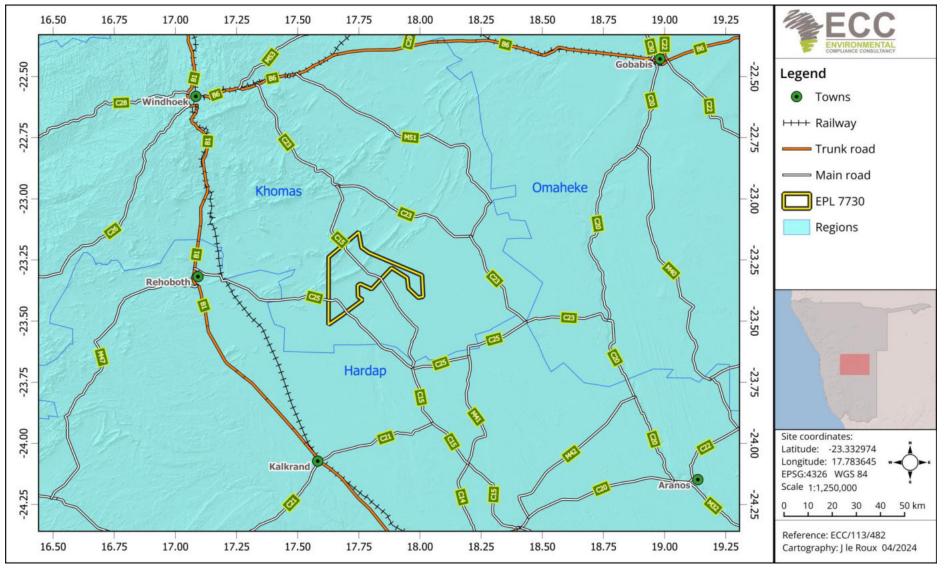


Figure 1 - Site locality map for EPL 7730.

1.2 Purpose of this document

Environmental Compliance Consultancy (Pty) Ltd (ECC) has been engaged by the KCC, on behalf of RT, to prepare the application to renew the environmental clearance certificate for EPL 7730. The Proponent currently holds a valid environmental clearance certificate for exploration activities on EPL 7730, for which a renewal is being applied. As part of this application, an environmental compliance desktop audit has been undertaken to determine the status of compliance with the EMP. Past physical audits, reported on in previous bi-annual reports, also form the basis for review of compliance with EMP requirements.

1.3 Proponent details

Kuiseb Copper Company (Pty) Ltd is a Namibian company in a joint venture with Rio Tinto Mining and Exploration Ltd, which is a global company. The field exploration program is conducted and managed in part by Remote Exploration Services (RES), a South African company also registered in Namibia, Remote Exploration Services External Branch Namibia (Pty) Ltd. The Proponent's details are set out in Table 1.

Table 1 - Proponent details.

Contact	Postal Address	Email Address	Telephone
Kuiseb Copper Company (Pty) Ltd	P O Box 2055 Swakopmund Namibia	branko@iafrica.com.na	+264 81 124 6757
Remote Exploration Services (Director: Mr Peter Hollick)	P O Box 97401 Maerua Mall Windhoek Namibia	peter@res.co.za	+264 81 274 3848

1.4 Environmental assessment practitioner

Environmental Compliance Consultancy (ECC) (Reg. No. 2022/0593) has prepared this renewal report and 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 Proponent.





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

Environmental Compliance Consultancy (Pty) Ltd P O Box 91193, Klein Windhoek, Namibia

Tel: +264 81 669 7608

Email: <u>info@eccenvironmental.com</u>



1.5 LANDOWNER LIAISON

During the evaluation period, the Proponent and RES engaged in contact and relationship management with landowners. A productive on-site meeting was convened at the Versailles farm (No.67), situated within the EPL. During this meeting, the Proponent outlined KCC's planned activities, such as the airborne electromagnetic (AEM) survey and proposed subsequent fieldwork.

Figure 2 provides the locality map of EPL 7730 with farm boundaries and farm numbers indicated.

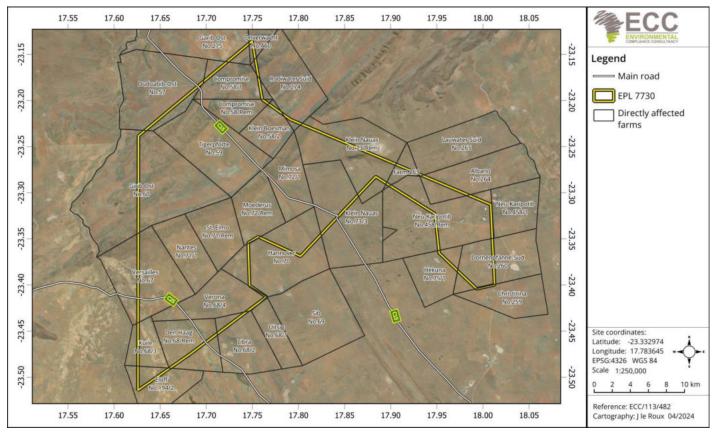


Figure 2 - Locality map of EPL 7730 with farm boundaries.



2 BACKGROUND TO EPL 7730

EPL 7730 was granted to Kuiseb Copper Company on 17 March 2020 and was renewed on 16 March 2023. An environmental clearance certificate was issued to by the Ministry of Environment, Forestry and Tourism (MEFT) on 08 June 2021 which expires on the 08 June 2024.

EPL 7730 is located southeast of Windhoek, in the Khomas Region and is 64730.8317 hectares in extent.

The Proponent wishes to continue with exploration activities on EPL 7730 for base and rare metals, and precious metals, hence an ECC renewal is being applied for.

2.1 Renewal activities

As part of the exploration programme, the following activities are envisaged:

- Airborne geophysical surveys (non-invasive);
- Potential creation of access tracks, where existing tracks cannot be utilised;
- Limited vegetation clearing for creation of tracks and survey access;
- Ground exploration activities may include soil and rock-chip sampling, geological mapping, geophysical surveys, temporary trenching, drilling and drill-core sampling; and
- Rehabilitation of exploration activities.



3 ENVIRONMENTAL COMPLIANCE AUDIT

3.1 SITE ACTIVITIES

3.1.1 BI-ANNUAL MONITORING AND REPORTING

Bi-annual environmental reports, covering the periods from July 2021 to December 2023, were submitted to the Ministry of Environment, Forestry, and Tourism. These reports assessed environmental performance and compliance related to on-site exploration activities. They can be found in Appendix C.

3.1.2 ACTIVITIES FOR THE MONITORING PERIOD

3.1.2.1 July to December 2021

During the reporting period spanning from September to December 2021, the airborne electromagnetic survey (AEM) survey was conducted, and its duration was extended into the subsequent reporting period until February 2022. The survey was executed by New Resolution Geophysics, a contractor based in RSA, along with their support team. Contact was made with all relevant farm owners within the EPL over which surveys were flown, and consent agreements were signed. In addition, farmers were informed 2 days prior to surveying over their farms in order to ensure that they were informed of the activities so as to remediate any immediate concerns that might arise. No issues were reported by the farmers.

3.1.2.2 January to June 2022

The airborne electromagnetic (AEM) survey, for which a separate EMP was in place, was conducted from January to February 2022. The survey was executed by New Resolution Geophysics, a contractor based in RSA, along with their support team. All relevant farm owners within the EPL over which surveys were flown were contacted and consent agreements were signed prior to commencement of the survey. In addition, farmers were informed 2 days prior to surveying over their farms in order to ensure that they were informed of the activities so as to remediate any immediate concerns that might arise. No issues were reported by the farmers.

3.1.2.3 July to December 2022

No activities were conducted on EPL 7730 during the reporting period. It is thus concluded that EMP compliance would therefore be in order for this EPL.

3.1.2.4 January to June 2023

Fieldwork entailed utilising pre-existing access tracks and walking in areas inaccessible to vehicles. Soil sampling progressed into its fourth phase during the first and second quarters of 2023. Samples were gathered at designated global positioning system (GPS) points and sent to the ALS laboratory in Okahandja for geochemical analysis. The soil sampling techniques employed were non-invasive, eliminating the need for rehabilitation efforts.



3.1.2.5 July to December 2023

The second phase of the diamond drilling programme took place from May 21 to August 8, 2023, while the third phase occurred between October 12 and December 15, 2023. Diamond drilling was performed by Mitchell Drilling Namibia (Pty) Ltd on farm Moedersus (No.72) situated on the EPL. Samples were sent to ALS laboratory in Okahandja for geochemical analysis.

3.2 Environmental management plan and auditing

The approved EMP covers all adverse environmental impacts, including any additional potential impacts that may result from the exploration activities on EPL 7730. The EMP provides the mitigation measures and monitoring requirements to curb the magnitude of impacts.

3.3 COMPLIANCE AUDIT FINDINGS

This section outlines the findings of environmental audits (desktop) during the period of review for EPL 7730. 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**Error! Reference source not found.**).

The EMP therefore:

- Identifies all mineral exploration activities that could cause environmental damage (aspects 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 exploration site 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;
- Ensures zero pollution incidents; minimal vegetation clearing and earthworks, protect local flora, fauna, and water resources; and use of 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;
- Provides a monitoring programme to record any mitigation measures that are implemented;
- Ensures that regular independent third-party environmental audits are carried out on a regular basis; and
- Once exploration has ceased, exploration sites require rehabilitation.

3.4 Issues of non-compliance

There were no instances of environmental non-conformance identified during the review period.



4 EXPLORATION EMP COMPLIANCE AUDIT

This section (Table 2) provides an overview of the compliance with EMP requirements as depicted in the approved EMP for EPL 7730 (Appendix A) This EMP compliance section has been compiled based on information as provided by the Proponent.

Table 2 – Exploration EMP compliance audit (EPL 7730).

Activity	Potential impacts	Management/mitigation measures	Compliance	Comments
Access and	- Miscommunication	Ensure documented permission to enter farms is	- Compliant	- The Proponent
site	with the farm	enforced,		contacted/engaged
preparation	owners,	- Farmers should have access to all farm areas at all		the farmers within
	– Disruption of farm	times,		the EPL prior to
	operations (leaving	- Existing water points and feeding areas need to be		exploration
	gates open, loss of	left, unaffected,		fieldwork.
	farming area,	- Use existing roads for access to avoid new tracks and		– Consent
	interference at	cut lines,		agreements were
	water points)	- Compliance with all applicable laws and agreements.		signed with the
	– Potential conflict			farmers within the
	with farm owners			EPL.
	and neighbours			
	(suspicious			
	movement,			
	poaching, stock			
	theft, field fires,			
	etc.).			



Activity	Potential impacts	Management/mitigation measures	Compliance	Comments
	- Potential	- Develop and implement an environmental and social	- Compliant	- Farmers were
	grievances and	operation manual or procedures to work on private		notified two (2)
	complaints,	farms and implement monitoring programmes		days prior to AEM
	 Social discomfort 	thereafter,		surveying over
	and anxiety	– Maintain continuous communication with interested		their farms.
		and affected parties (I&APs) to identify concerns and		- No issues or
		mitigation measures,		complaints were
		- Compliance with all applicable laws and agreements,		reported by the
		- Train personnel and raise awareness to sensitize		farmers.
		them about contentious issues such as stock theft		
		and poaching,		
		- Ensure appropriate supervision of all activities daily,		
		 Accidents and incidents need to be reported to 		
		exploration manager and recorded in the incident		
		register.		





Activity	Potential impacts	Management/mitigation measures	Compliance	Comments
Activity General exploration activities	Potential impacts - Residing and nesting organisms can be disturbed, injured or killed by movement of vehicles and equipment	 Management/mitigation measures Restrict movements to areas of activities only. Use existing tracks and routes as far as practically possible. Identify rare, endangered, threatened and protected species in advance such as the white or black rhino. Route new tracks around sensitive areas inhabited by protected species (i.e., pangolins, etc.). Restrict movements to daytime hours. Sensitize personnel by training and creating awareness amongst them and notify them to avoid some areas. No driving off designated access routes (into the bush) or any off-road. No animals or birds may be collected, caught. 	- Compliant	- The AEM surveys conducted were restricted to daytime hours. There were no movements on the ground due to the nature of these exploration activities Induction and training is provided to the workers prior to drilling
	- Residing and nesting organisms can be disturbed	 consumed or removed from site. Restrict excessive noise to areas of activities only. Restrict excessive noise to daytime hours (7 am to 5 pm weekdays and 7 am until 1 pm on Saturdays). 	- Compliant	operations. - Drilling activities conducted ivolve minimal vegetation clearing. - No issues were reported by the farmers. - The AEM survey conducted were restricted to



Activity	Potential impacts	Management/mitigation measures	Compliance	Comments
Activity	as a result of ambient noise from operations and movements of vehicles and equipment Conflict with farmers and neighbours about rising of ambient noise levels	 Management/mitigation measures No activities are allowed between dusk and dawn. Drill equipment shall be suitably positioned to ensure that noisy equipment is away from receptors. Residents shall be provided at least two weeks' notice of drilling operations within 1 km of their property. All equipment to be shut down or throttled back between periods of use. Adhere to civil aviation regulations about the use of a drone, if necessary. 	Compliance	daytime hours. There were no ground movements due to the nature of these exploration activities. Consent agreements were signed with the farmers and were notified two (2) days prior to exploration activities (i.e. AEM surveying over their farm).
				No complaints or issues were reported by the farmers.
	- Visual disturbances	 Position drill equipment and other heavy equipment in such a way that it is out of sight from human receptors. 	– Compliant	- The Proponent and contractors maintened good



Activity	Potential impacts	Management/mitigation measures	Compliance	Comments
		 Barriers or fences shall be used if drilling occurs in locations that may affect residents or livestock. Maintain good housekeeping standards on site. Maintain continuous communication with I&APs to identify concerns and mitigation measures. 		housekeeping as no complaints were reported. - The Proponent to ensure compliance with the requirements of the EMP.
	- Dust and emissions	 All vehicles and machinery or equipment to be shut down or throttled back between periods of use. Use existing access roads and tracks where possible. Apply dust suppression where possible. Restrict the speed of vehicles (<30 km/h). Specific activities that may generate dust and impact on residents shall be avoided during high wind events. Residents need to be informed at least two weeks in advance that drilling operations are within 1km of their property. Vehicles and machinery are to be regularly serviced according to the manufacturers' specifications and kept in good working order so as to minimise exhaust emissions. 	- Compliant	 Existing routes were used as feasibly possible. Soil sampling activities conducted were invasive. The Proponent to ensure compliance with the requirements of the EMP.



Activity	Potential impacts	Management/mitigation measures	Compliance	Comments
	- Loss of soil quality	– Where possible, plan access routes, drill pads and	- Compliant	- The Proponent
	due to mixing of	camps outside of existing drainage lines,		reported that small
	earth matter,	– Where necessary, install diversions to curb possible		trenches created
	trampling,	erosion,		during soil
	compaction, and	Restore drainage lines when disturbed,		sampling were
	pollution,	- Topsoil should be stockpiled separately, and re-spread		rehabilitated post
	– Enhanced soil	during rehabilitation,		sampling.
	erosion	- Limit the possibility of compaction and creating of a		– No disturbances to
		hard subsurface,		drainage lines
		- Limit the possibility of trampling,		reported.
		- During drilling oil absorbent matting should be placed		– The Proponent to
		under and around the rig,		ensure compliance
		- Equipment must be in a good condition to ensure that		with the
		accidental oil spills do not occur and contaminate soil,		requirements of
		- In the event of spills and leaks, polluted soils must be		the EMP.
		collected and disposed of at an approved site,		
		Limit the possibility of mixing mineral waste with		
		topsoil.		
	- Groundwater	Ensure drill pads and spill kits are in place on site,	- Compliant	– No potential
	contamination	- Consider alternative sites when the water table is too		incidences with
		high,		potential to
		Wastewater shall be contained,		contaminate
		Where possible, water from existing water sources		groundwater
		shall be used.		sources were
				reported.



Activity	Potential impacts	Management/mitigation measures	Compliance	Comments
				- The Proponent to ensure compliance with the requirements of the EMP.
Airborne EM	- Perceived impact	Prior to conducting aerial surveys, both directly and	 Compliant 	- The Proponent
survey (AEM)	from low-flying EM	indirectly affected parties should be informed in		contacted the
over the EPL,	survey activities on	writing at least 2 weeks prior,		farmers within the
possible low flying,	livestock and humans.	 The following information is to be included in the written communication sent to the interested and 		EPL prior to AEM surveying over
indication	numans.			their farms.
of line		affected parties. This can be in the form of a Press Notice;		- Consent
spacing		Company name,		agreements were
oparag		Survey dates, time and duration,		signed with
		Purpose of the survey,		farmers prior to the
		o Flight altitude,		AEM surveys.
		 Survey location, map of survey area and flight lines, 		– The farmers were
		and		notified two (2)
		o Contact details for enquiries.		days in advance
				prior to surveying
				over their farms.
				– High -resoultion
				satellite images
				were provided as



Activity	Potential impacts	Management/mitigation measures	Compliance	Comments
Vegetation	Loss of plant	 Use existing roads for access to avoid new tracks and 	Compliant	good will to each farmer whose property was included in the AEM survey. – Drilling activities
clearance for access routes, drill pads and temporary contractor camps	 Loss of plant species Loss of habitat Create landscape scars Enhance erosion Loss of sense of place 	 Ose existing roads for access to avoid flew tracks and cut lines, Minimise clearance areas through proper planning of the exploration activities, Route new tracks around established and protected trees, and clumps of vegetation, Identify rare, endangered, threatened and protected species, During toolbox talks and induction, highlight to workers that the removal of significant plants should be avoided, Where possible rescue and relocate plants of significance, Promote revegetation of cleared areas upon completion of exploration activities. 	- Compliant	conducted involved minimal vegetation clearing. All field staff were always under supervision and informed of areas to be avoided on respective farms. Site rehabilitation included levelling of any soil disturbed by the rig or support vehicle/equipment and redistribution of all vegetation that have been



Activity	Poten	tial impacts	Mana	agement/mitigation measures	C	ompliance	Со	mments
	– Alie wee	en plants and eds can identally be roduced	- All ou kn sit ins ali - En pla ve sp - Er ap	Il project equipment arriving on site from an area utside of the project or coming from an area of nown weed infestations (not present on the project te) should have an internal weed and seed spection completed prior to equipment being used, nsure contractors receive induction on spread of ien weed, nsure the potential introduction and spread of alien ants is prevented, nsure the correct removal of alien invasive egetation and prevent the establishment and pread of alien invasive plants, radicate weeds and alien species as soon as they opear, take workers aware about alien species and weeds.	-	Compliant	_ _	removed to encourage re- vegetation. Induction, training and toolbox talks were held with the team. The Proponent to ensure compliance with the requirements of the EMP.
Fuel handling	– So	il contamination	Stora	ge .	_	Compliant	_	No non
and storage,		ater	1	bel chemicals appropriately,		compliant		conformances or
maintenance	CO	ntamination		nemicals with different hazard symbols should not				incidences were
on	– En	hance		e stored together - clear guidance on the				reported.
equipment,	aco	cidental veld	со	empatibility of different chemicals can be obtained				



Activity	Potential impacts	Management/mitigation measures	Compliance	Comments
machinery and vehicles Inadequate control or accidental releases of hazardous substances	fires during high wind periods	from the material safety data sheets (MSDS) which should be readily available, - Store chemicals in a dedicated, enclosed, and secure facility with a roof and concrete floor. Chemical tanks should be completely contained within secondary containment such as bunding, - Consider the feasibility of substituting hazardous chemicals with less hazardous alternatives, - Storage and handling of fuels and chemicals shall be	Compliance	 No hazardous chemicals are stored on-site. No large spills noted. Fire extinguishers utilised all serviced and valid. The Proponent to
on site		 in compliance with relevant legislation and regulations, 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. Fire risk		ensure compliance with the requirements of the EMP.
		 No open fires are allowed to be lit by personnel, associated with the proponent anywhere on the EPL outside of dedicated campsites, The proponent to ensure that exploration campsites have proper cooking facilities available to use. Gas stoves are the preferred option, No cigarette butts are allowed to be discarded into the environment. These should be contained in 		



Activity	Potential impacts	Management/mitigation measures	Compliance	Comments
		appropriate domestic containment bins and disposed		
		of at the local landfill site,		
		 No unauthorised movement beyond the exploration 		
		areas and campsites is allowed,		
		 Proper fire hazard identification signage to be placed 		
		in areas that store flammable material (e.g.,		
		hydrocarbons		
		and gas bottles),		
		 Control and reduce the potential risk of fire by 		
		segregating and safe storage of materials,		
		 Avoid potential sources of ignition by prohibiting 		
		smoking in and around facilities,		
		 Fire extinguishers should always be at designated 		
		areas and should be inspected regularly.		
		Spills		
		- Spill kits with the following items as a minimum		
		should be made available on site:		
		 Absorbent materials, 		
		o Shovels,		
		 Heavy-duty plastic bags, 		
		 Protective clothing (e.g., gloves and overalls), 		
		Major servicing of equipment shall be undertaken		
		offsite or in appropriately equipped workshops,		



Activity	Potential impacts	Management/mitigation measures	Compliance	Comments
		 For small repairs and unavoidable and necessary maintenance activities all reasonable precautions to avoid oil and fuel spills must be taken (i.e., spill trays, impervious sheets), Provision of adequate and frequent training on spill management, spill response and refuelling must be provided to all onsite personnel, No refuelling is to take place within 50 meters of groundwater boreholes, surface water or streams. Vehicles and machinery are to be regularly serviced to minimise oil and fuel leaks, All major petroleum product spills (spill of more than 200 litres per spill) 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. 		
		 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. 		



Activity	Potential impacts	Management/mitigation measures	Compliance	Comments
		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,		
		 A written incident report must be submitted to the 		
		general manager.		
Generation of	- Soil contamination	 Good housekeeping standards applied on site, 	- Compliant	– Toolbox talks are
waste	– Water	 Training and raise awareness through toolbox talks 		provided by the
	contamination	and induction,		drilling company
	– Nuisance (visual	- Implement a standard operational procedure (SOP)		foreman prior to
	impacts, litter)	on waste management, from all kinds of waste		the start of
	 Ecological risks 	possible on-site (e.g. hydrocarbons, domestic,		exploration
		wastewater),		activities.
		– Implement a culture of correct waste collection,		– An SOP is in place.
		waste segregation and waste disposal,		



Activity	Potential impacts	Management/mitigation measures	Compliance	Comments
		complimentary to the waste hierarchy – avoid, re-use,		 Solid waste was
		recycle,		collected on-site
		– Wastewater discharges will be contained – no		and disposed of at
		disposal of wastewater directly into the environment		the Gobabis landfill
		is allowed.		site.
				– No issues,
				complaints or non-
				conformances were
				reported.
				- The Proponent is to
				ensure compliance
				with the
				requirements of
				the EMP.
Water use	– Soil contamination	– Minimise the operational consumption of water	- Compliant	– No non-
	 Ground and 	throughout the operations of the project,		conformances
	surface water	Visual monitoring and photographic record should be		reported.
	contamination	kept of any surface and / or groundwater intersected,		– The Proponent to
	– Nuisance (visual	– Recycle wastewater, where possible,		ensure compliance
	and odour)	- Install devices to prevent spills and overfills, e.g.		with the
		shutoff devices for large volume tanks (e.g. > than		requirements of
		2000 L),		the EMP.
		- Install an impermeable hardstand in areas of high-risk		
		contamination to prevent ground infiltration by		
		pollutants,		



Activity	Potential impacts	Management/mitigation measures	Compliance	Comments
		 Segregation of wastewater (domestic and industrial effluent), During operations, monitoring of wastewater discharges (specific to a wastewater discharge permit conditions) should be conducted on a regular basis (quarterly). 		
Heritage	- Disruption of heritage sites	In case of discovering or unearthing heritage sites, particularly palaeontological or archaeological finds, the following measures (chance find procedure) shall be applied: - Work to cease, area to be demarcated with appropriate tape by the site supervisor, and the site manager to be informed, - The 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, the site manager to inform the environmental manager who will get in touch with an archaeologist who will provide advice, - Exploration manager or archaeological specialist to evaluate the significance of the remains and identify appropriate action, for example, record and remove;	- Compliant	 No non-conformances were observed. A chance find procedure implemented If required. The Proponent to comply with conditions of the EMP.



Activity	Potential impacts	Management/mitigation measures	Compliance	Comments
		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.		
Job creation, skills development and business opportunities	- Beneficial socio- economic impacts on a local and regional scale	 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	 Evidence of local employemnt and local business opportunities. The Proponent to ensure compliance with the requirements of the EMP.





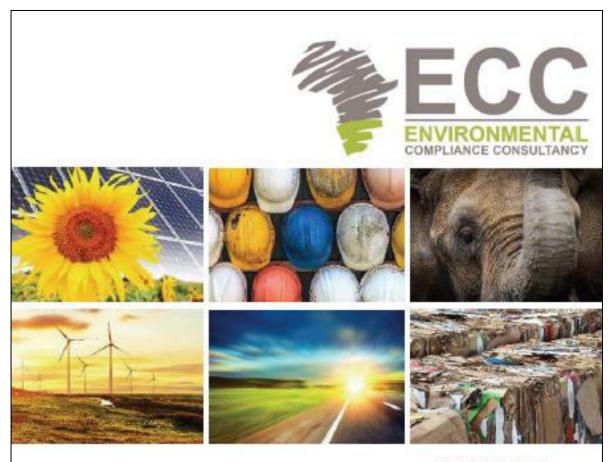
5 CONCLUSION

During the review period, fieldwork activities encompassed soil sampling, diamond drilling, and the second phase of the AEM survey.

All operations conducted on the EPL adhered to the stipulated conditions and regulations of the granted licence, as outlined in the environmental management plan (EMP). It is advised that the Proponent maintain strict compliance with environmental laws and internal standards to uphold optimal environmental protection throughout the Project's advancement. Furthermore, it is recommended that an independent environmental assessment practitioner conducts on-site audits on EPL 7730 activities bi-annually and annually.



APPENDIX A – EXPLORATION ENVIRONMENTAL MANAGEMENT PLAN FOR EPL 7730



ECC-113-309-REP-65-A

ENVIRONMENTAL MANAGEMENT PLAN

EXPLORATION ACTIVITIES
FOR BASE AND RARE METALS, PRECIOUS METALS,
KHOMAS AND OMAHEKE REGIONS

PREPARED FOR KUISEB COPPER COMPANY (PTY) LTD

DECEMBER 2020

PO BOX 91193 Windhoek Namible Environmental Compliance Consultancy CC CC/2013/11404



APPENDIX B – EPL 7730 ENVIRONMENTAL CLEARANCE CERTIFICATE









ECC -

CONDITIONS OF APPROVAL

- 1. This environmental clearance is valid for a period of 3 (three) years, from the date of issue unless withdrawn by this office
- 2. This certificate does not in any way hold the Ministry of Environment and Tourism accountable for misleading information, nor any adverse effects that may arise from these activities. Instead, full accountability rests with the proponent and its consultants
- 3. This Ministry reserves the right to attach further legislative and regulatory conditions during the operational phase of the project
- 4. All applicable and required permits are obtained and mitigation measures stipulated in the EMP are applied particularly with respect to management of ecological impacts.
- 5. Strict compliance with national heritage guidelines and regulations is expected throughout the life-span of the proposed activity, therefore any new archaeological finds must be reported to the National Heritage Council for appropriate handling of such.
- 6. A six monthly report on project progress and environmental management profile, starting from date of commencement of operations, must be submitted by the Proponent to Office of Environmental Commissioner.

08 APRIL 2024 **PAGE 34 OF 35** REV 01



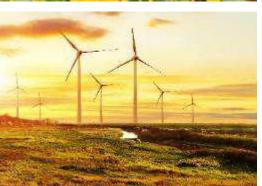
APPENDIX C - BI-ANNUAL ENVIRONMENTAL REPORTS 2021 - 2023















ECC-113-309-REP-65-A

ENVIRONMENTAL MANAGEMENT PLAN

EXPLORATION ACTIVITIES
FOR BASE AND RARE METALS, PRECIOUS METALS,
KHOMAS AND OMAHEKE REGIONS

PREPARED FOR KUISEB COPPER COMPANY (PTY) LTD

DECEMBER 2020



TITLE AND APPROVAL PAGE

Project Name: Environmental management plan for the exploration activities on EPLs of

Kuiseb Copper Company (Pty) Ltd and Rio Tinto Mining and Exploration Ltd, in partnership, for base and rare metals, precious metals in the Khomas and

Omaheke regions.

Project Number: ECC-113-309-REP-65-A

Client Name: Kuiseb Copper Company (Pty) Ltd

Ministry Reference: N/A

Status of Report: Submission to the government

Date of issue: December 2020

Review Period N/A

Environmental Compliance Consultancy Contact Details:

We welcome any enquiries regarding this document and its content please contact:

Stephan Bezuidenhout Jessica Bezuidenhout (Mooney)

Environmental Compliance Consultancy Environmental Compliance Consultancy

Office: +264 81 669 7608 Office: +264 81 669 7608

www.eccenvironmental.com www.eccenvironmental.com

Confidentiality

Environmental Compliance Consultancy Notice: This document is confidential. If you are not the intended recipient, you must not disclose or use the information contained in it. If you have received this document in error, please notify us immediately by return email and delete the document and any attachments. Any personal views or opinions expressed by the writer may not necessarily reflect the views or opinions of Environmental Compliance Consultancy.

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

DECEMBER 2020 PAGE 2 OF 38



TABLE OF CONTENTS

1	INTRODUCTION	6
1.1	BACKGROUND TO THE PROPOSED PROJECT	6
1.2	ENVIRONMENTAL REGULATORY REQUIREMENTS	8
1.3	Purpose and Scope of this Report	8
1.4	MANAGEMENT OF THIS EMP	8
1.5	LIMITATIONS, UNCERTAINTIES AND ASSUMPTIONS OF THIS EMP	8
1.6	ENVIRONMENTAL CONSULTANCY	9
2	PROJECT MANAGEMENT PERSONNEL	. 10
2.1	Organisational Structure, Roles and Responsibilities	. 10
2.2	CONTRACTORS	. 11
2.3	EMPLOYMENT	. 11
3	COMMUNICATION AND TRAINING	. 12
3.1	COMMUNICATIONS	. 12
3.2	ENVIRONMENTAL EMERGENCY AND RESPONSE	. 12
3.3	COMPLAINTS HANDLING AND RECORDING	. 12
3.4	Training and Awareness	. 13
3.4	1SITE INDUCTION	. 13
4	REPORTING, COMPLIANCE AND ENFORCEMENT	. 14
4.1	Environmental Inspections and Compliance Monitoring	. 14
4.1	1Daily compliance monitoring	. 14
4.1	.2 Monthly compliance monitoring	. 14
4.1	.3 Reporting	. 14
4.2	ENVIRONMENTAL PERMITS	. 14
4.3	Non-compliance	. 14
4.3	1Non-compliance event	. 14
4.4	Incident Reporting	. 15
4.4	1Disciplinary action	. 15
5	ENVIRONMENTAL AND SOCIAL MANAGEMENT	. 16
5.1	Environmental Performance Measurement	. 16
5.2	OBJECTIVES AND TARGETS	. 16
5.3	REGISTER OF ENVIRONMENTAL RISKS AND ISSUES	. 16
6	IMPLEMENTATION OF THE EMP	. 26
7	APPENDIX A: APPLICATION FOR A WASTEWATER DISCHARGE LICENCE	. 27



8	APPENDIX B - REPORTING OF MAJOR PETROLEUM PRODUCT SPILL FORM PP/11	. 34
9	APPENDIX C - COMPLAINTS REGISTER TEMPLATE	. 36
10	APPENDIX D - MONTHLY INTERNAL COMPLIANCE CERTIFICATE	. 37
LIST	OF TABLES	
TABL	E 1 - ROLES AND RESPONSIBILITIES	. 10
TABL	E 2 - EMERGENCY CONTACT DETAILS	. 12
TABL	E 3 - ENVIRONMENTAL RISKS AND ISSUES, AND MITIGATION AND MONITORING MEASURES	. 17
IIST	OF FIGURES	
FIGU	RE 1 - LOCATION OF KUISEB COPPER COMPANY EPLS	7



DEFINITIONS AND ABBREVIATIONS

ECC Environmental Compliance Consultancy
EIA Environmental Impact Assessment
EMA Environmental Management Act
EMP Environmental Management Plan
EPL Exclusive Prospecting Licence
I&AP Interested and Affected Parties

KCC Kuiseb Copper Company

MEFT Ministry of Environment, Forestry, and

Tourism

MME Ministry of Mines and Energy

MSDS Safety Data Sheets

RT Rio Tinto

SOP Standard Operating Procedure
GPS Geographical Positioning System

AEM Airborne Electromagnetic



1 INTRODUCTION

1.1 BACKGROUND TO THE PROPOSED PROJECT

Environmental Compliance Consultancy (ECC) has been engaged by the proponent Kuiseb Copper Company (Pty) Ltd to undertake an Environmental Impact Assessment (EIA) and an Environmental Management Plan (EMP) in terms of the Environmental Management Act, No. 7 of 2007 and its regulations. An application for an environmental clearance certificate was submitted to the relevant competent authorities, the Ministry of Mines and Energy (MME) and the Ministry of Environment, Forestry and Tourism (MEFT).

Kuiseb Copper Company (Pty) Ltd (KCC) and Rio Tinto Mining and Exploration Ltd (RT), through a formal KCC-RT Joint Venture agreement, permits KCC to fully operate the exploration program. The proponent intends to conduct exploration activities for base, rare and precious metals in the Khomas and Omaheke regions in the general vicinity of the Gobabis, Witvlei and Doringveld areas of eastern Namibia (Figure 1). The exploration programme may include an airborne electromagnetic survey (non-invasive, at a coarse line spacing) over smaller portions of the combined EPL licence area. Additional exploration methods may include soil and rock-chip sampling, geological mapping and ground geophysical surveys, followed by drilling in selected target areas.



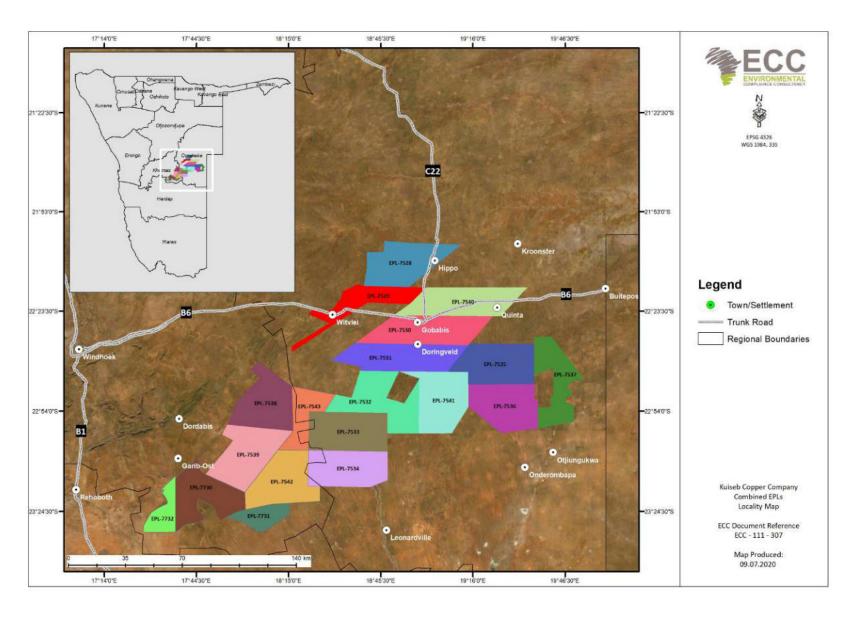


FIGURE 1 - LOCATION OF THE KUISEB COPPER COMPANY AND RIO TINTO MINING AND EXPLORATION JOINT VENTURE EPLS

DECEMBER 2020 PAGE 7 OF 38



1.2 Environmental Regulatory Requirements

The proposed project is considered as a listed activity as stipulated in the Environmental Management Act, No. 7 of 2007 and the Environmental Impact Assessment Regulation, No. 30 of 2012. As a listed activity an application for an environmental clearance certificate is required. An environmental scoping report and EMP are required as part of the environmental clearance certificate application, 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, No. 7 of 2007 and its regulations.

1.3 Purpose and Scope of this Report

This EMP provides a logical framework, proposed 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.

This EMP forms an appendix to the environmental scoping report and was 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 updated when the scope of works alters, or when further data or 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 base and rare metals, precious metals on EPLs 7528, 7529, 7530, 7531, 7532, 7533, 7534, 7535, 7536, 7537, 7538, 7539, 7540, 7541, 7542, 7543, 7730, 7731, and 7732 in the Khomas and Omaheke regions.

1.4 MANAGEMENT OF THIS EMP

The proponent Kuiseb Copper Company (Pty) Ltd will hold the environmental clearance certificate for the proposed project and shall be responsible for the implementation and management of this EMP. The implementation and management of this EMP and thus the monitoring of compliance shall be undertaken through daily duties and activities as well as by monthly inspections.

This EMP shall be circulated to all contractors and made available on ECC's 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 assessment report. Where the design or exploration methods alter, this EMP may require updating and potential further assessment undertaken.

DECEMBER 2020 PAGE 8 OF 38



1.6 ENVIRONMENTAL CONSULTANCY

Environmental Compliance Consultancy, a Namibian consultancy with registration number CC/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 CV's of the authors of this report are contained in Appendix A. ECC is independent of the proponent and has no vested or financial interest in the proposed project except 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



2 PROJECT MANAGEMENT PERSONNEL

2.1 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 EMP;
- Ensuring that all personnel are provided with sufficient training, supervision, and instruction to fulfil
 this requirement; and
- Ensuring that any persons allocated specific environmental management responsibilities are notified
 of their appointment and confirm, in writing, that their responsibilities are clearly understood.

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
KOLE	KESPONSIBILITIES & DUTIES
Proponent	 Overall responsibility for the implementation and management of this EMP; Ensure the environmental policy is communicated to all personnel throughout the proposed project and ensure that employees, contractors and visitors understand and adhere to the EMP; Responsible for providing the required resources (including financial and technical) to complete the required tasks; Appoint supervisors such as an exploration (project) manager and a site manager; and Ensure that all employees, contractors and visitors are inducted on safety measures.
Exploration Manager	 Responsible for ensuring compliance with this EMP including overseeing all day-to-day activities throughout the duration of the project, including routine and non-routine maintenance works, as well as the decommissioning of the project; Ensure adequate resources are made available for the implementation of this EMP; Responsible for the management, utilisation and possible future revisions of this EMP; Ensure all personnel are aware of the commitments made in this EMP and any other relevant regulatory requirements applicable to the project; Ensure all employees and contractors participate in a site induction process prior to commencing with work on the project; Maintain the community issues and concern register, and keep records of complaints received; Ensure that best environmental practice is undertaken throughout the duration of the project; and Report any non-compliance or accidents to the regulatory authority.
Site Manager (or nominated supervisor)	 Ensure that all employees, contractors and visitors to the site are conversant with the requirements of this EMP, relevant to their roles on site and adhere to this EMP at all times; Provide environmental awareness or management training and site inductions for all employees, contractors and visitors; Monitor daily operations and ensure adherence by personnel to the EMP; Receive, respond to and record complaints; and Report any non-compliance or accidents to the exploration manager.



Employees (and contractors and visitors where applicable)

- Responsible for being compliant with this EMP throughout the project;
- Adhere to this EMP at all times;
- Ensure attendance of site inductions;
- Ensure appropriate briefings for certain activities have been provided and are fully understood; and
- Report any operations and conditions that deviate from the EMP or any noncompliant issues or accidents to the site manager and exploration manager.

2.2 Contractors

Any contractors hired during the exploration activities or for any accessory works for the project, or contractors appointed for maintenance activities, 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 management measures;
- Reporting of environmental issues, including actual or potential environmental incidents and hazards, to the exploration manager;
- Ensuring appropriate corrective or remedial action is taken to address all environmental hazards and incidents reported; and
- Adhere to the safety management plan developed by the proponent.

2.3 EMPLOYMENT

The proponent (and all contractors) shall comply with the requirements of the national regulations for Labour, health and safety and any amendments to these regulations. The following shall be complied with:

- In liaison with local government, community, stakeholders and relevant authorities the proponent shall ensure that local people have access to information about job opportunities and are considered first for exploration or 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 for labour positions.



3 COMMUNICATION AND TRAINING

In order to ensure that potential risks and impacts are minimised, it is vital that personnel are appropriately informed and trained on operational procedures that include the above mitigation measures. It is also important that regular communications are maintained with all the stakeholders and that they are made aware of potential impacts and how to minimise or avoid them. This section sets out the framework for communication and training in relation to the EMP.

3.1 COMMUNICATIONS

During exploration, the exploration manager or the site manager shall communicate all 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
- Briefings on key project-specific environmental issues.

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 in advance.

During the exploration activities, communication 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 2 contains a list of numbers to be contacted in case of an emergency. All personnel will be made aware of these numbers.

TABLE 2 - EMERGENCY CONTACT DETAILS

TOWN	AMBULANCE	POLICE	FIRE BRIGADE
Gobabis	+ 264 62 56 6200	+264 62 57 7700	+264 (62) 56-6666
Witvlei	+264 (62) 56-2275	+264 (62) 1-0111	-
Leonardville	+264 (62) 56-2275	+264 (62) 56-9703	+264 (62) 56-9115
Rehoboth	+264 (62) 52-3811	+264 62 523 223	+264 (62) 52-2091

3.3 COMPLAINTS HANDLING AND RECORDING

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



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.

3.4 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.

3.4.1 SITE INDUCTION

All personnel involved in the project shall be inducted to the site with a specific environment and social awareness training component. 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 exploration manager shall ensure an up-to-date 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; and
 - O What can be done to mitigate against such impacts.
- The inductee's role and responsibilities with respect to implementing the EMP;
- The site's environmental rules;
- Details of how to deal with, and who to contact if environmental problems occur;
- Basic vegetation clearing principals and species ID sheets;
- Noise control measures for drilling in proximity to residents;
- Focal themes such as compliance, reporting of accidents and incidents, good housekeeping and standard procedures for waste management;
- The potential consequences of non-compliance with this EMP and relevant statutory requirements;
 and
- The role of people responsible for the project.



4 REPORTING, COMPLIANCE AND ENFORCEMENT

4.1 Environmental Inspections and Compliance Monitoring

4.1.1 DAILY COMPLIANCE MONITORING

A copy of this EMP shall be on site throughout the project and shall be available upon request. It is the responsibility of the exploration manager to ensure this EMP is complied with through their daily roles. Daily, weekly and monthly inspections will be undertaken. Any environmental problems or risks identified shall be reported to the exploration manager and actioned as soon as is reasonably practicable.

4.1.2 MONTHLY COMPLIANCE MONITORING

Monthly inspections shall be undertaken by the exploration manager to check that the standards and procedures as 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: a brief description of non-conformance, the reason for the non-conformance, the responsible party, the result (consequence), and the corrective action to be taken and any necessary follow up measures required.

4.1.3 REPORTING

There shall be a requirement to ensure that any incident or non-compliance, including any environmental issue, failure of equipment or an accident, is reported to the exploration manager in a timely manner.

4.2 ENVIRONMENTAL PERMITS

Whilst the Water Resources Management Act, No. 11 of 2013 is not enforced, it is best practice to adhere to its stipulations while ensuring compliance with the Water Act, No. 54 of 1956, which is still maintained.

Should water not be sourced directly from a private borehole or from a local Municipal source, a licence to abstract water is required in terms of the Water Act, No. 54 of 1956 and shall operate in accordance with any conditions of the licence.

In the event that vegetation is to be cleared all requirements under the Forest Act, No. 12 of 2001 as amended by the Forest Amendment Act, No. 13 of 2005 and its regulations of 2015 will be complied with.

4.3 Non-compliance

4.3.1 Non-compliance event

Where it has been identified that works are not compliant with this EMP, the exploration 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 exploration manager shall be responsible for ensuring a corrective action plan is established and implemented to address the identified shortcoming.

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

- There is evidence of a contravention of this EMP and associated indicators or objectives;
- The exploration manager or contractor have failed to comply with corrective or other instructions issued by the exploration manager or qualified authority; or
- The exploration manager or contractor fails to respond to complaints from the public.



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

4.4 INCIDENT REPORTING

The exploration manager must ensure that an accident and incident (including minor or a near-miss) reporting system is maintained so that all applicable statutory requirements are covered. 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. This requirement does not preclude immediate first aid being administered and the location being made safe.

The exploration 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.

4.4.1 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 or penalties;
- Legal action;
- Monetary penalties imposed by the proponent on the contractor;
- Withdrawal of licence(s); and
- Suspension of work.

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



5 ENVIRONMENTAL AND SOCIAL MANAGEMENT

5.1 ENVIRONMENTAL PERFORMANCE MEASUREMENT

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

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

5.2 OBJECTIVES AND TARGETS

Environmental objectives for the project are as follows:

- Zero pollution incidents;
- Minimal vegetation clearing and earthworks;
- Protect local flora and fauna;
- Minimise the generation of waste; and
- Minimal interruption to farm activities.

5.3 REGISTER OF ENVIRONMENTAL RISKS AND ISSUES

An environmental review of the proposed project was completed which identified all the commitments and agreements made within the environmental assessment report. From this, a schedule of environmental commitments and risks has been produced (Table 3), which details deliverables including measures identified for the prevention of pollution or damage to the environment during exploration.

Table 3 provides a register of environmental risks and issues, which identifies mitigation and monitoring measures, as well as the responsible person. This register will be subject to regular review by the exploration manager and updated when necessary. The exploration manager will use this register to undertake monthly inspections to ensure the project is compliant with this EMP.



TABLE 3 - ENVIRONMENTAL RISKS AND ISSUES, AND MITIGATION AND MONITORING MEASURES

ACTIVITY	POTENTIAL IMPACTS	MANAGEMENT / MITIGATION MEASURES	MONITORING REQUIREMENTS	RESPONSIBILITY
Access and site preparation	 Miscommunication with the farm owners; Disruption of farm operations (leaving gates open, loss of farming area and interference at water points); and Potential conflict with farm owners and neighbours (suspicious movement, and poaching, stock theft, field fires, etc.) 	 Ensure documented permission to enter farms is enforced; Farmers should have access to all farm areas at all times; Existing water points and feeding area need to be left; unaffected; Use existing roads for access to avoid new tracks and cut lines; and Compliance with all applicable laws and agreements. 	Daily	Exploration manager or site manager (or nominated site supervisor
	 Potential grievances and complaints; and Social discomfort and anxiety. 	 Develop and implement an environmental and social operation manual or procedures to work on private farms and implement monitoring programmes thereafter; Maintain continuous communication with I&APs to identify concerns and mitigation measures; Compliance with all applicable laws and agreements; Train personnel and raise awareness to sensitize them about contentious issues such as stock theft and poaching; Ensure appropriate supervision of all activities daily; and Accidents and incidents need to be reported to the exploration manager and recorded in the incident register. 	Weekly, monthly	
General onground exploration activities	Residing and nesting organisms can be disturbed, injured or killed by the movement of vehicles and equipment.	 Restrict movements to areas of activities only; Use existing tracks and routes as far as practically possible; Identify rare, endangered, threatened and protected species in advance such as the white or black rhino; Route new tracks around sensitive areas inhabited by protected species (i.e., pangolins, etc.); Restrict movements to daytime hours; Sensitize personnel by training and creating awareness amongst them and notify them to avoid some areas; No driving off designated access routes (into the bush) or any off-road driving; and 	Weekly	

DECEMBER 2020 PAGE 17 OF 38



ACTIVITY	POTENTIAL IMPACTS	MANAGEMENT / MITIGATION MEASURES	MONITORING REQUIREMENTS	RESPONSIBILITY
		No animals or birds may be collected, caught, consumed or removed from the site.		
	 Residing and nesting organisms can be disturbed as a result of ambient noise from operations and movements of vehicles and equipment; and Conflict with farmers and neighbours about rising of ambient noise levels. 	 Restrict excessive noise to areas of activities only; Restrict excessive noise to daytime hours (7 am to 5 pm weekdays and 7 am until 1 pm on Saturdays); No activities are allowed between dusk and dawn; Drill equipment shall be suitably positioned to ensure that noisy equipment is away from receptors; Residents shall be provided at least two weeks' notice of drilling operations within 1 km of their property; All equipment to be shut down or throttled back between periods of use; and Comply with national civil aviation regulations about the use of a drone, if necessary. 	Daily	Site manager (or nominated site supervisor
	- Visual disturbances.	 Position drill equipment and other heavy equipment in such a way that it is out of sight from human receptors; Barriers or fences shall be used if drilling occurs in locations that may affect residents or livestock; Maintain good housekeeping standards on site; and Maintain continuous communication with I&APs to identify concerns and mitigation measures. 	Daily, weekly	
	- Dust and emissions.	 All vehicles and machinery or equipment to be shut down or throttled back between periods of use; Use existing access roads and tracks where possible; Apply dust suppression where possible; Restrict the speed of vehicles (≤ 30km/h); and 	Daily	



ACTIVITY	POTENTIAL IMPACTS	MANAGEMENT / MITIGATION MEASURES	MONITORING REQUIREMENTS	RESPONSIBILITY
	Loss of soil quality due to mixing of	 Specific activities that may generate dust and impact on residents shall be avoided during high wind events. Residents need to be informed at least two weeks in advance that drilling operations are within 1km of their property; Vehicles and machinery are to be regularly serviced according to the manufacturers' specifications and kept in good working order so as to minimise exhaust emissions. Where possible, plan access routes, drill pads and camps 	Weekly	
	earth matter, trampling, compaction and pollution, and - Enhanced soil erosion.	 outside of existing drainage lines; Where necessary, install diversions to curb possible erosion; Restore drainage lines when disturbed; Topsoil should be stockpiled separately, and re-spread during rehabilitation; Limit the possibility of compaction and creation of a hard subsurface, Limit the possibility of trampling; During drilling, oil absorbent matting should be placed under and around the drill rig; Equipment must be in a good condition to ensure that accidental oil spills do not occur and contaminate soil; In the event of spills and leaks, polluted soils must be collected and disposed of at an approved site; and Limit the possibility of mixing mineral waste with topsoil. 		
	Groundwater contamination	 Ensure drill pads and spill kits are in place on site; Consider alternative sites when the water table is too high; Wastewater shall be contained; and Where possible, water from existing water sources shall be used. 	Weekly	
Airborne EM survey (AEM) over the EPL, possible low	 Perceived impact from low-flying EM survey activities on livestock and humans. 	Prior to conducting aerial surveys, both directly and indirectly affected parties should be informed in writing at least 2 weeks prior.	Once-off	-



ACTIVITY	POTENTIAL IMPACTS	MANAGEMENT / MITIGATION MEASURES	MONITORING REQUIREMENTS	RESPONSIBILITY
flying, indication of line spacing		The following information is to be included in the written communication sent to the interested and affected parties. This can be in the form of a Press Notice. Company name; Survey dates, time and duration; Purpose of the survey; Flight altitude; Survey location, map of survey area and flight lines, and Contact details for enquiries.		
Vegetation clearance for access routes, drill sites and temporary contractor camps	 Loss of plant species; Loss of habitat; Create landscape scars; and Loss of Sense of Place. 	 Use existing roads for access to avoid new tracks and cut lines; Minimise clearance areas through proper planning of the exploration activities; Route new tracks around established and protected trees, and clumps of vegetation; Identify rare, endangered, threatened and protected species; During toolbox talks and induction sessions, highlight to workers that the removal of significant plants should be avoided; Where possible rescue and relocate plants of significance; and Promote revegetation of cleared areas upon completion of exploration activities. 	Daily	- Exploration Manager
	 Alien plants and weeds can accidentally be introduced. 	 All project equipment arriving on site from an area outside of the project or coming from an area of known weed infestations (not present on the project site) should have an internal weed and seed inspection completed prior to such equipment being used; Ensure contractors receive induction on preventing the spread of alien weed; Ensure the potential introduction and spread of alien plants is prevented; 	Monthly	Employees, contractorsSite manager (or nominated site supervisor



ACTIVITY	POTENTIAL IMPACTS	MANAGEMENT / MITIGATION MEASURES	MONITORING REQUIREMENTS	RESPONSIBILITY
		 Ensure the correct removal of alien invasive vegetation and prevent the establishment and spread of alien invasive plants; Eradicate weeds and alien species as soon as they appear; and Make workers aware about alien species and weeds. 		
Fuel handling and storage, maintenance on equipment, machinery and vehicles Inadequate control or accidental release of hazardous substances on site	 Soil contamination; Water contamination; and Enhanced accidental veld fires during high wind periods. 	 Storage Label chemicals appropriately. Chemicals with different hazard symbols should not be stored together - clear guidance on the compatibility of different chemicals can be obtained from the Materials Safety Data Sheets (MSDS) which should be readily available; Store chemicals in a dedicated, enclosed and secure facility with a roof and a concrete floor. Chemical tanks should be completely contained within secondary containment such as bunding; Consider the feasibility of substituting hazardous chemicals with less hazardous alternatives; Storage and handling of fuels and chemicals shall be in compliance with relevant legislation and regulations; and 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. Fire risk No open fires are allowed to be lit by personnel, associated with the proponent anywhere on the EPL outside of dedicated campsites; The proponent to ensure that exploration campsites have proper cooking facilities available to use. Gas stoves are the preferred option; 	 Daily observations Weekly inspections 	Site manager (or nominated site supervisor



ACTIVITY	POTENTIAL IMPACTS	MANAGEMENT / MITIGATION MEASURES	MONITORING REQUIREMENTS	RESPONSIBILITY
		 No cigarette butts are allowed to be discarded into the environment. These should be contained in appropriate domestic containment bins and disposed of at the local landfill site; No unauthorised movement beyond the exploration areas and campsites is allowed; Proper fire hazard identification signage to be placed in areas that store flammable material (e.g., hydrocarbons and gas bottles); Control and reduce the potential risk of fire by segregating and safe storage of materials; Avoid potential sources of ignition by prohibiting smoking in and around facilities; and Fire extinguishers should always be at designated areas 		
		and should be inspected regularly. Spills Spill kits with the following items as a minimum should be made available on site: - Absorbent materials; - Shovels; - Heavy-duty plastic bags; - Protective clothing (e.g., gloves and overalls); - Major servicing of equipment shall be undertaken offsite or in appropriately equipped workshops; - For small repairs and unavoidable and necessary maintenance activities all reasonable precautions to avoid oil and fuel spills must be taken (e.g., spill trays, impervious sheets); - Provision of adequate and frequent training on spill management, spill response and refueling must be		



ACTIVITY	POTENTIAL IMPACTS	MANAGEMENT / MITIGATION MEASURES	MONITORING REQUIREMENTS	RESPONSIBILITY
		 No refueling is to take place within 50 meters of groundwater boreholes, surface water or streams; Vehicles and machinery are to be regularly serviced to minimise oil and fuel leaks; and All major petroleum product spills (spill of more than 200 liters per spill) 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. 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 the necessary Personal 		
		Protective Equipment (PPE) is provided; and - Isolate the area as required. The following measures are to be implemented in response to a spill: - Spills are to be stopped at the 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 of at appropriately licensed facilities; and A written incident report must be submitted to the general manager. 		



ACTIVITY	POTENTIAL IMPACTS	MANAGEMENT / MITIGATION MEASURES	MONITORING REQUIREMENTS	RESPONSIBILITY
Generation of waste	 Soil contamination; Water contamination; Nuisance (visual impacts and litter); and Ecological risks. 	 Good housekeeping standards applied on site; Training and raise awareness through toolbox talks and induction; Implement a Standard Operational Procedure (SOP) on waste management, for all kinds of waste possible on-site (e.g., hydrocarbons, domestic, waste water); Implement a culture of correct waste collection, waste segregation and waste disposal, complementary to the waste hierarchy – avoid, re-use, recycle; and Wastewater discharges will be contained – no disposal of wastewater directly into the environment is allowed. 	– Daily and weekly	 Employees, contractors Site manager (or nominated site supervisor
Water use	 Soil contamination; Ground and surface water contamination; and Nuisance (visual and odour). 	 Minimise the operational consumption of water throughout the lifespan of the project; Visual monitoring and a photographic record should be kept of any surface and or groundwater intersected; Recycle wastewater, where possible. Install devices to prevent spills and overfills, e.g., shutoff devices for large volume tanks (e.g., > than 2000lts). Install an impermeable hardstand in areas of high-risk contamination to prevent ground infiltration by pollutants; Segregation of wastewater (domestic and industrial effluent); and During operation, monitoring of wastewater discharges (specific to a wastewater discharge permit conditions) should be conducted on a regular basis (quarterly). 	- Daily inspection of operations	 Exploration Manager Employees, contractors Site manager (or nominated site supervisor



ACTIVITY	POTENTIAL IMPACTS	MANAGEMENT / MITIGATION MEASURES	MONITORING REQUIREMENTS	RESPONSIBILITY
Heritage	 Disruption of heritage sites. 	 In case of discovering or unearthing heritage sites, the following measures (chance-find procedure) shall be applied: Works to cease and the area to be demarcated with appropriate tape by the site supervisor, and the site manager to be informed; The 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, the site manager to inform the environmental manager who will get in touch with an archaeologist who will provide advice. Exploration manager or an 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); Inform the police if the remains are human, and Obtain appropriate clearance or approval from the competent authority. if required, recover and remove the remains to the national museum or national forensic laboratory as directed. 	- Daily inspection	 General Manager, and Deputy Manager (or nominated supervisor)
Job creation, skills development and business opportunities	Beneficial socio-economic impacts on a local and regional scale.	 Maximise local employment and local business opportunities; Enhance the use of local labour and local skills as far as reasonably possible; and Ensure that goods and services are sourced from the local and regional economy as far as reasonably possible. 	– Monthly	– Exploration Manager



6 IMPLEMENTATION OF THE EMP

Exploration work will be carried out in compliance with the relevant requirements of the Minerals (Prospecting and Mining) Act, 1992. No significant impacts are anticipated for the activities that have been identified. Management and mitigation measures are in place for potential risks.

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 November 2020;
- 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.

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

OCTOBER 2020 PAGE 26 OF 38



7 APPENDIX A: APPLICATION FOR A WASTEWATER DISCHARGE LICENCE

		•					
D	EPARTMENT OF WATER	AFFAIRS & FORESTRY					
FAX: (0	61) 208 7160	PRIVATE BAG 13184					
TEL: (0	61) 208 7111	WINDHOEK					
REFERENCE NO: NAMIBIA							
APPLICATION	ON FOR A WASTEWATER	DISCHARGE LICENCE, IN TERMS					
OF PART X	IV OF THE WATER RESOL	IRCES MANAGEMENT ACT, 2004					
	Namibia, No. 3357, of	n the Government Gazette of the 23 December 2004, Government					
A. GENERA	L INSTRUCTIONS						
T A M P	Applications must be submitted in duplicate to: The Permanent Secretary Attn.: Law Administration Ministry of Agriculture, Water and Forestry Private Bag 13184 WINDHOEK						
2. Application F	ee (to accompany this document):	N\$					
Section B Section D Section E 4. Only the relev 5. A separate a	- All applicants (compulsory!)	ant to technology employed in your works. need to be submitted with this application.					
	1						



Name of applicant:			
Address - Contact Person:			
- Postal:			
- Physical:			
- Tel No.:			
- Fax No.:			
- E-mail:			
Region in which plant is situated:			
Constituency in which plant falls:			
Type of establishment: (e.g. school, town, industry)			
Source of water supply: (e.g. borehole, river, sea)			
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*
Application:			
Prepared by:	Name :	Position:	
(e.g. Consultant)	Signature:	Date:	
Responsible Executive:	Name :	Position:	
	Signature:	Date:	



C. TECHNICAL DETAILS - GENERAL

Answers to the following information must be contained in this application either from the questionnaire or as an attachment thereto (see also details in Appendix A):

NAME OF TRE	EATMENT PLANT/WORKS:
1. Type of efflu	ent (please also refer to Section D for classifications):
2. Site of works	:
	a site plan indicating the exact location (or intended location) of the works. This plan should e (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 Submit 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).
- Monitoring boreholes for monitoring groundwater pollution over time must be available within 500 m of the point of final effluent discharge.
- Please note: Additional information is required for new treatment plants (e.g. an environmental impact assessment) - details can be obtained from the Department of Water Affairs and Forestry.
- All relevant information must be included with this application. It is a criminal offence to deliberately withhold vital information relevant to this application. Where applicants are found to be in contravention with this requirement, they may/will be prosecuted.

3



plicalits si	ilouiu	l only complete sections relevant to their specific effluent (please tick relevant box):
		Domestic Effluent - Includes wastewater collected in towns (excluding industrial effluent!), villages, schools, lodges, administration buildings.
		Industrial Effluent - Includes wastewater generated by any industry, factory, etc.
[Mining Effluent - Includes wastewater accumulated or collected due to mining operations (e.g. Acid mine wastewater)
)-4:	Combination/mix of various effluents (list major effluent streams on page 11)
e pressu nsible rei	ire oi	n Namibia's existing fresh-water supplies can, to a great extent, be eased by the of effluents for a variety of purposes including dust control, agriculture and industrial
ne pressu nsible reu ocesses.	ire or use o The	n Namibia's existing fresh-water supplies can, to a great extent, be eased by the of effluents for a variety of purposes including dust control, agriculture and industrial erefore, reuse of effluent after suitable treatment is encouraged.
ne pressu nsible recocesses. ne allowa cumstand nich shou	The able ces a	n Namibia's existing fresh-water supplies can, to a great extent, be eased by the of effluents for a variety of purposes including dust control, agriculture and industrial
ensible recocesses. The alloware cumstant chich shou pact assesses arate	The able ces a ld be essm	n Namibia's existing fresh-water supplies can, to a great extent, be eased by the of effluents for a variety of purposes including dust control, agriculture and industrial prefore, reuse of effluent after suitable treatment is encouraged. The reuse of an effluent is dependent upon its quality as well as many local and hence each application in this category needs careful and individual scrutiny, a undertaken by a specialist in this field and must be supported by an environmental
ne pressu ensible recocesses. ne alloward cumstand nich shou pact asse separate	The able ces a ld be essm	n Namibia's existing fresh-water supplies can, to a great extent, be eased by the of effluents for a variety of purposes including dust control, agriculture and industrial erefore, reuse of effluent after suitable treatment is encouraged. The reuse of an effluent is dependent upon its quality as well as many local and hence each application in this category needs careful and individual scrutiny, a undertaken by a specialist in this field and must be supported by an environmental ment study. The reuse of effluent reuse is required and more details in this regards can be obtained.



D-2. INDUSTRIAL EFFLUENTS

2.1	Describe industry and major activities resulting in effluent 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	f 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				
	Final effluent quality after treatment (put envisaged fina	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	noti2			

^{*} 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):						
	Capacity / Flowrates of different streams (major only)	1	2	3			
4.2	Type (e.g. domestic, industrial, mining, others)	PARI	0.00				
	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	of typical efflue	ent sample)		1		
4.5		- , s,p,	oap.o/				
	-						
4.4	Type of treatment employed (give short overview of pr	ocess)					
4.5	List major treatment chemicals employed in the unit p	20000(00):					
4,5	List major treatment chemicals employed in the unit p	ocess(es).					
4.6	Final effluent quality after treatment (put envisaged fin	al quality for a	new plant)				
4.7	Sludge generation:						
	- Volume generated				m.3/d		
	- Mass				kg/d (dry solid)		
	- Method of disposal				(-)/		
	- Place of disposal						
	- Major constituents						
	If alludes mando, atota fraguenay of cleaning						



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, perennial river, etc.)				
1.4.2	IF soakaway, state: - Type of soil - Suttability/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 works:				

Reuse:

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).



8 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



11. Quantity of the petroleum		
	aroduct enill	

		••••••
12. Indicate whether the petro	leum product has or will have a	any negative effect or
	y and health of person or the pr	
		• • • • • • • • • • • • • • • • • • • •
	······································	
		• • • • • • • • • • • • • • • • • • • •
	remedial actions taken to mini and all cleaning-up operations	
therewith		• • • • • • • • • • • • • • • • • • • •
DECLARATION		
DECLARATION I,		



9 APPENDIX C - COMPLAINTS REGISTER TEMPLATE

NAME	CONTACT DETAILS	DATE AND LOCATION OF COMPLIANT	NATURE OF COMPLIANT	ACTION TAKEN TO RESOLVE	NOMINATED PERSON TO RESOLVE ISSUE (Signature)	DATE OF RESOLUTION/ CLOSED OUT COMPLAINT



10 APPENDIX D - MONTHLY INTERNAL COMPLIANCE CERTIFICATE

FOR THE PERIODTO	
MANAGEMENT REPRESENTATIVE:	SIGN:
SHE COORDINATOR:	SIGN:
Date of Submission:	
Key activities on site during the month:	
NON-CONFORMANCE:	
Area of activity:	
Reason:	
Responsible party:	
Results:	

OCTOBER 2020 PAGE 37 OF 38



Correction action taken:
Intended follow-up:
GOOD PERFORMANCE:
Description of activity or action in which the area/person went beyond compliance towards responsible care for the environment:
ADDITIONAL COMMENTS: