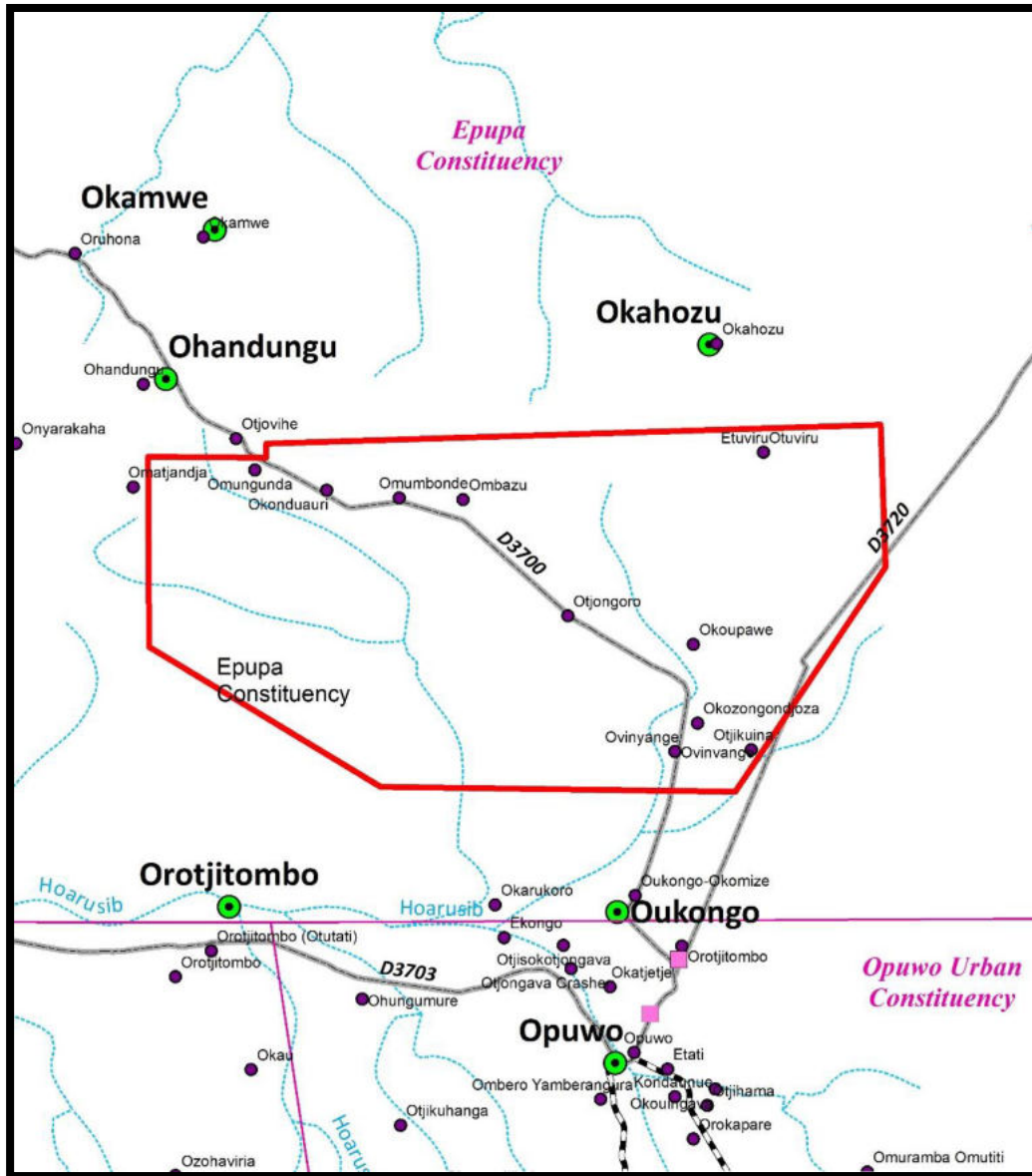


AMENDED ENVIRONMENTAL MANAGEMENT PLAN FOR EXCLUSIVE PROSPECTIVE LICENSE (EPL) 4346 KUNENE REGION



5 May 2023

Title	Amended Environmental Management Plan (EMP) for the minerals exploration withing exclusive prospecting licence (EPL) 4346 – Kunene region
Original EMP Prepared By	LM Environmental Consulting – January 2016
Amended By	Lovisa Nangula Amwele – May 2023
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ABBREVIATIONS

The following is a list of the abbreviations, acronyms, technical terms, and definitions used in this Report:

AU	African Union
CBD	Convention on Biological Diversity
DEA	Directorate of Environmental Affairs
EA	Environmental Assessment
EAP	Environmental Assessment Practitioner
ECC	Environmental Clearance Certificate
EHS	Environmental Health and Safety
EIA	Environmental Impact Assessment
EMA	Environmental Management Act
EMP	Environmental Management Plan
EPA	Environmental Protection Agency
EPL	Exclusive Prospecting License
GRN	Government of the Republic of Namibia
I&APs	Interested and Affected Parties
IFC	International Finance Corporation
ISO	International Organization for Standardization
KRN	Kunene Resources Namibia (Pty) Ltd
LAC	Legal Assistance Centre
MAWLR	Ministry of Agriculture, Water and Land Reform
MEFT	Ministry of Environment Forestry and Tourism
MME	Ministry of Mines and Energy
MOHSS	Ministry of Health and Social Services
MSDS	Material Safety Data Sheet
N/A	Not Applicable
NDP	National Development Plan
NHIES	Namibia Household Income and Expenditure Survey
NPC	National Planning Commission
NSA	Namibia Statistics Agency
NSF	National Strategic Framework
PDAC	Prospectors and Developers Association of Canada
PEA	Potentially Economically Active
PM	Particulate Matter
PPE	Personal Protective Equipment
PPP	Public Participation Process
RAB	Rotary Air Blast
RC	Reverse Circulation
UNCCD	United Nations Convention to Combat Desertification
VOC	Volatile Organic Compound(s)

1 INTRODUCTION/BACKGROUND

Kunene Resources Namibia (Pty) Ltd (KRN), a wholly owned Namibian Company, has been undertaking exploration activities for mainly Base and Rare Metals, and Industrial Minerals over a number of Exclusive Prospecting Licenses (EPLs) in Namibia including EPL 4346 located in the Kunene Region (*Figure 1*).

Over the years, the company has transferred/ changed ownerships of some mineral rights to different entities one of which is the “Gecko Cobalt Mining” now known as “Opuwo Cobalt Mining” (OCM) which holds EPL 4346. The licence forms part of a bigger project referred to as the *Kaoko Project* which initially consisted of eleven (11) EPLs some of which are no longer active and have been relinquished (*Figure 2*).

The company has been conducting exploration activities over the Kaoko Project licences since 2012 and has discovered potential occurrence of Base and Rare Metal “cobalt” in the area including EPL4346. In terms of Section 32 of the Environmental Management Act, 7 of 2007 (“the Act”), a combined Environmental Impact Assessment (EIA) process to produce an Environmental Scoping Report (ESR) and Environmental Management Plan (EMP) was conducted by LM Environmental Consultants in January 2016. An Environmental Clearance Certificate (ECC) for EPL 4346 was renewed and issued on the 05 June 2020 with a validity of three (3) years until the 05th of June 2023 (**Annexure A**).

OCM wishes to continue with their exploration activities for Base and Rare metals, Precious Metals, Precious Stones within EPL 4346. This Environmental Management Plan is amended to support the ECC renewal application for the continuation of minerals prospecting within this EPL. The proponent has carried out prospecting activities as reported with the biannual environmental submissions over the period of the ECC validity until the second half of 2022. The company conducted its activities in line with the provisions of the EMP and the conditions of the ECC granted to the operations. Therefore, on this basis the ECC should be renewed for the continuation of the minerals prospecting activities within EPL4346.

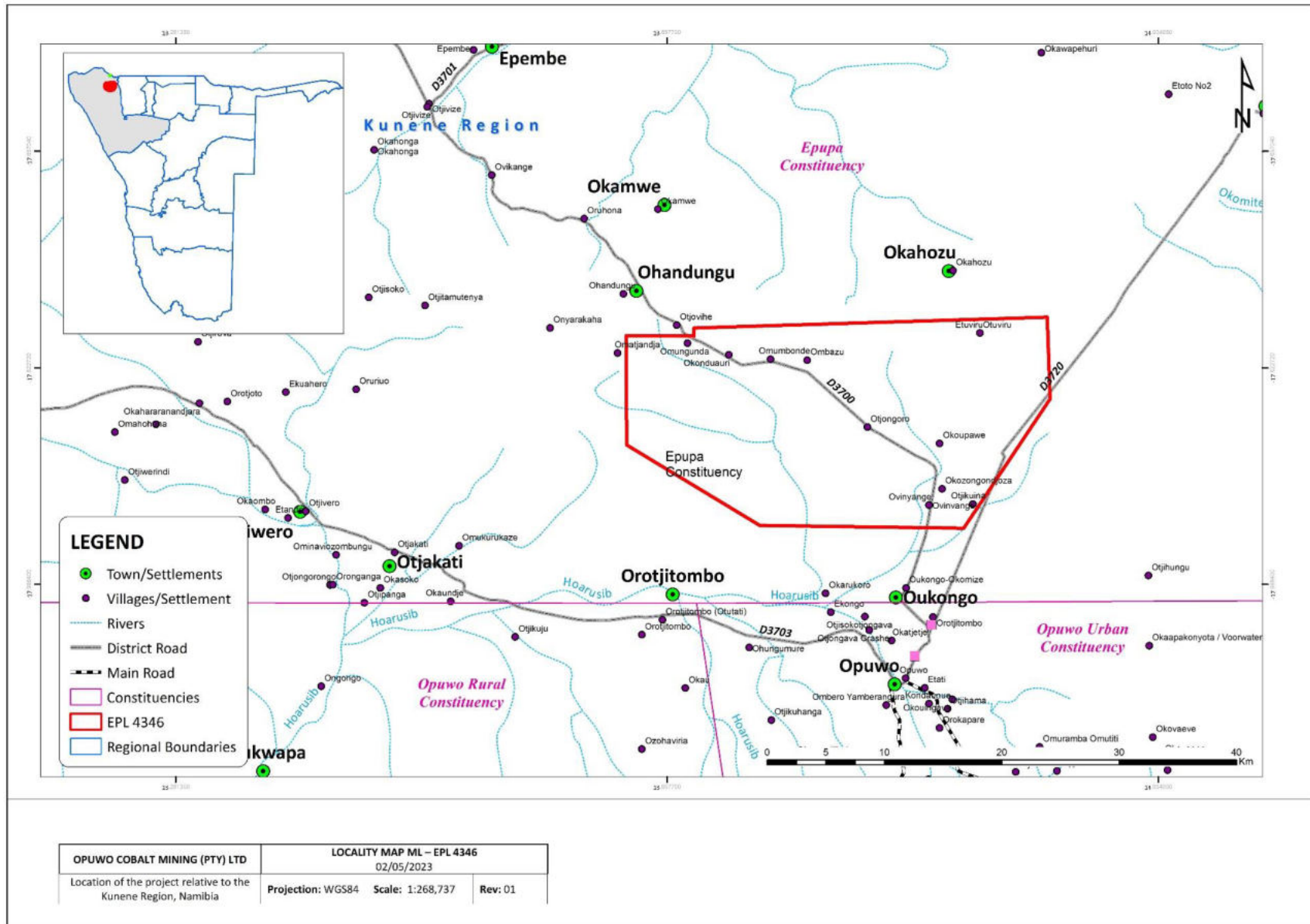


Figure 1 - EPL 4346 Locality map (LN Amwele, 2023)

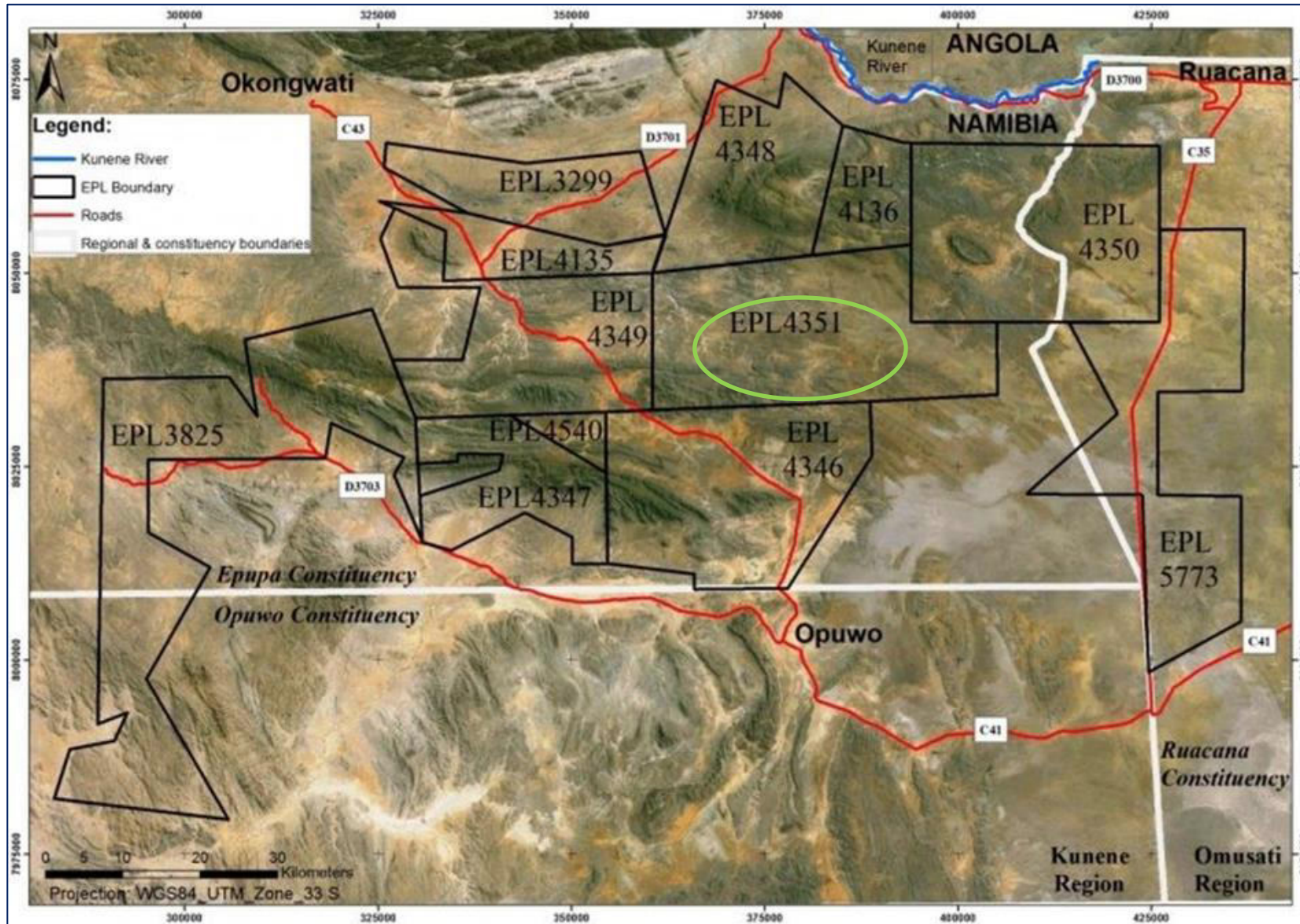


Figure 2 – Historic map showing the former , Kunene Resources Exclusive Prospecting License portfolio; EPLs 3299, 3825, 4135, 4136, 4346-4351, 4540 and 5773, Kunene and Omusati Regions, Namibia (Source: Kaarina Ndalulilwa, Kunene Resources Namibia (Pty) Ltd), LM Environmental Consultants, 2016

2 EXISTING AND PLANNED ACTIVITIES

The following prospecting activities have been carried out by the company on the EPL, or are envisaged to form part of the regular exploration endeavours:

Geological mapping: geological maps of the area are reviewed, ground traverses and observations are made, and the maps are updated.

Ground geophysics: sensors (radar, magnetic and electromagnetic) are used (carried by staff or mounted on vehicles) to detect mineralization in a specific area.

Airborne geophysics: sensors are mounted on an aircraft and lines are flown.

Soil sampling: orientation (low impact) soil sampling (along a few selected lines), followed by a full soil sampling survey (along many lines covering target areas).

Rock grab sampling: samples are collected and sent for geochemical trace element analysis at an analytical chemical laboratory in order to determine if sufficient quantities of e.g., Base and Rare Metals, and Industrial Minerals are present; a grab sample is not intended to be representative of the deposit, and usually the best-looking material is selected.

Systematic trench sampling: a long, narrow excavation dug through overburden, or blasted out of rock, to expose a vein or ore structure.

Bulk sampling (including blasting): a large sample of mineralized rock is taken; the sample is selected in such a manner as to be representative of the potential orebody being sampled.

Water sampling (boreholes and springs).

Drilling of targets, e.g. based on results from geophysical survey work or from geochemical soil sampling programs:

- RAB Drilling: A rotary drilling method that uses compressed air to move drill cuttings up to the drill collar.
- Reverse Circulation Drilling: a rotating bit cuts rock or compacted earth into fragments, which are flushed upward to the drill collar by water or fluid mixtures for sampling.
- Diamond Drilling: a rotary type of rock drill cuts a core of rock that is recovered in long cylindrical sections, two cm or more in diameter (The Northern Miner, 2007; Carter, 2015).

The construction of roads (blasting may be required in very rugged terrain) and the development of remote infrastructure also constitute part for the possible activities planned.

3 REGULATORY FRAMEWORK

To protect the environment and achieve sustainable development, all projects, plans and programmes deemed to have adverse impacts on the environment require an ECC, as per the Namibian legislation which lists specific activities that need to apply for such clearance. The establishment of the proposed minerals prospecting falls within the range of these activities as mentioned above. The relevant project activities for which an ECC application must be made (listed as per Government Notice No 29 of 2012) are included in Table 1 below:

Table 1 - Applicable EMA listed activities.

Activity No.	Activity	Applicability
1.a	The construction of facilities for - the generation of electricity;	Diesel powered generators will be used as a source of electricity on site.
2.1	The construction of facilities for waste sites, treatment of waste and disposal of waste.	Provision of ablutions on site for staff.
2.3	The import, processing, use, recycling, temporary storage, transit or export of waste	Provision of ablutions on site for staff
3.1	The construction of facilities for any process or activity which requires a licence, right or other form of authorisation, and the renewal of a licence, right or other form of authorisation in terms of the Mineral (Prospecting and Mining Act of 1992.	Establishment of camping area for staff and other supporting infrastructure for the project.
3.2	Other forms of mining or extraction of any natural resources whether regulated by law or not.	Possible sampling from drilling activities is a form of extraction of a natural resource.
4	The clearance of forest areas, deforestation, afforestation, timber harvesting or any other related activity that requires authorisation in term of the Forest Act, 2001 (Act No. 12 of 2001) or any other law.	When lateral expansion is required the removal of trees will be done in association with the Directorate of Forestry that issue permits.
8.1	The abstraction of ground or surface water for industrial or commercial purposes.	If this is possible, water will be abstracted from a borehole for use during Prospecting Phases. Relevant permits will be in place as required by the Department of Water Affairs (DWA).

9.1	The manufacturing, storage, handling or processing of a hazardous substance defined in the Hazardous Substances Ordinance 1974	Possible storage of fuel/diesel on site.
9.4	The storage and handling of a dangerous goods, including petrol, diesel, liquid petroleum gas or paraffin, in containers with a combined capacity of more than 30 cubic meters at any one location	Petroleum Products Regulations No 2000: Section (3) (2) No person shall possess or store any fuel except under authority of a licence or a certificate
9.5	Construction of filling stations or any other facility for the underground and aboveground storage of dangerous goods, including petrol, diesel, liquid, petroleum, gas or paraffin.	Petroleum Products Regulations No 2000: Section (3) (2) No person shall possess or store any fuel except under authority of a licence or a certificate

Additional pertinent legislation and policies which have (generally) informed the EA are listed in **Table 2**. Reference is made regarding the applicability of each law to this project.

Air pollution in Namibia was governed by the Atmospheric Pollution Prevention Ordinance (No. 11 of 1976) which mainly focused on the impact of air pollution emitted from point sources on occupational health and safety. It was limited in that it did not consider the impact of emissions from multiple air pollution sources on the surrounding environment nor did it address ambient air quality issues. The Atmospheric Pollution Prevention Ordinance (No. 11 of 1976) was then replaced by the Pollution Control and Waste Management Bill which considers emissions from multiple air pollution sources and their impact on the surrounding environment. Although the bill makes provision for air quality standards, Namibia does not have any air quality standards that can be implemented at present. Therefore, according to Article 144 of the Namibian Constitution, international standards may be adopted.

Namibia's Environmental Assessment Policy for Sustainable Development and Environmental Conservation (1995) as well as the Draft Procedures and guidelines for EIA & EMP of 2008 requires the following steps in an Environmental Impact Assessment Procedure:

1. Project identification & conceptualisation
2. Appoint work to an environmental assessment practitioner
3. Development of proposal through consultation
4. Application with baseline scoping report and draft environmental management plan
5. Notification with baseline report and terms of reference for full EIA
6. Review of applications & registrations
7. Full investigation, EIA Report and draft environmental management, Mitigation plan(s)
9. Application with full EIA and draft environmental management plan
10. Conditions and approval
11. Record of Decisions

12. Appeal (if necessary)

13. Implementation of proposal

14. Monitoring, auditing and ongoing mitigations

The legal matrix of the project not only promotes sustainable development, but does so within the consideration of local, regional and national planning and development initiatives. It further serves to ensure that the health and safety of communities and workers are brought into the EMP. These procedures will be followed for the project described in the following section.

Table 2 - Additional National and International Legislation

Legislation / Policy	Summary	Applicability to Assessment	Included in Report
National Legislation			
The Namibian Constitution	<ul style="list-style-type: none"> ➤ Promote the welfare of people, ➤ Incorporates a high level of environmental protection, ➤ Incorporates international agreements as part of Namibian law. 	All proposed development should aim at promoting the welfare of all people in a sustainable manner.	Principles of sustainable development and protection of the environment are enshrined in the objectives and goals of impact minimisation for adverse impacts.
Environmental Management Act Act No. 7 of 2007, Government Notice No. 232 of 2007	<ul style="list-style-type: none"> ➤ Defines the environment, ➤ Promote sustainable management of the environment and the use of natural resources, ➤ Provide a process of assessment and control of activities with possible significant effects on the environment. 	The proposed project is listed in the EMA regulations which require an application for an ECC.	The project has been registered with MEFT and the final SR and EMP will be submitted in support of an ECC application.
Soil Conservation Act (Act No. 76 of 1969)	<ul style="list-style-type: none"> ➤ Law relating to the combating and prevention of soil erosion, the conservation, improvement and manner of use of the soil and vegetation and the protection of the water sources Namibia. ➤ This Act covers the prevention and combating of soil erosion; the conservation, improvement and manner of use of the soil and vegetation; and the protection of water sources. 	Infrastructure development of the proposed project will inevitably impact on the soils and further pose risks to soil contamination in the construction and Prospecting Phases.	Principles of soil conservation and pollution prevention have been included the EMP which will be submitted in support of an ECC.
The Water Act Act No. 54 of 1956	<ul style="list-style-type: none"> ➤ Remains in force until the new Water Resources Management Act comes into force, 	Water will be used during the construction, operational and decommissioning phases. The proponent is yet to decide if water used	Mitigation measures relating to water contamination are described in the EMP for the

	<ul style="list-style-type: none"> ➤ Defines the interests of the state in protecting water resources, ➤ Controls the disposal of effluent, ➤ Draft regulations are being reviewed 	will be stored in water tanks filled from the local service provider or ground water will be abstracted from a borehole, in such instance a water abstraction permit is required. A water registration / permit is also required for the disposal of wastewater.	construction and Prospecting Phases.
Water Resources Management Act Act No. 11 of 2013	<ul style="list-style-type: none"> ➤ Provide for management, protection, development, use and conservation of water resources, ➤ Prevention of water pollution and assignment of liability, ➤ Not in force yet. 	Water will be used during the construction and Prospecting Phases for construction purposes as well as sewage management. No water will directly be sourced from a river or dam.	Mitigation measures relating to water contamination are described in the EMP for the construction and Prospecting Phases.
Local Authorities Act Act No. 23 of 1992, Government Notice No. 116 of 1992	<ul style="list-style-type: none"> ➤ Define the powers, duties and functions of local authority councils, ➤ Regulates discharges into sewers. 	EMA requires public participation inclusive of NGO's, local and regional government and IAPs.	Local and regional offices have been invited to participate in the application process.
Public Health Act Act No. 36 of 1919	<ul style="list-style-type: none"> ➤ Provides for the protection of health of all people. 	The proposed project may have health impacts on labourers and surrounding communities.	Health and safety measures have been incorporated into the EMP of the proposed project
Labour Act Act No 11 of 2007, Government Notice No. 236 of 2007	<ul style="list-style-type: none"> ➤ Provides for Labour Law and the protection and safety of employees, ➤ Labour Act, 1992: Regulations relating to the health and safety of employees at work (Government Notice No. 156 of 1997). 	The proposed project will require labour.	Measures to ensure that the requirements of the labour act are met have been included in the EMP.

<p>Electricity Act, 2007 (Act No. 4 of 2007)</p>	<ul style="list-style-type: none"> ➤ The Electricity Act aims to establish the Electricity Control Board and provide for its powers and functions; to provide for the requirements and conditions for obtaining licences for the provision of electricity; to provide for the powers and obligations of licensees; and to provide for incidental matters. Under section 17, no person may establish or carry on any undertaking for - ➤ (a) the generation of electricity. ➤ (b) the trading of electricity. ➤ (c) the transmission of electricity. ➤ (d) the supply of electricity. ➤ (e) the distribution of electricity. ➤ (f) the importation of electricity; or ➤ (g) the export of electricity, ➤ Unless such person holds a licence issued under this Act that authorises the particular activity. 	<p>The proposed project will obtain electricity produced from diesel generators on site.</p>	<p>Health and safety measures for the use and storage of fuel on site have been incorporated into the EMP of the proposed project</p>
<p>Road Traffic and Transport Act Act No. 52 of 1999 Government Notice No 282 of 1999</p>	<ul style="list-style-type: none"> ➤ Provides for the control of traffic on public roads and the regulations pertaining to road transport. 	<ul style="list-style-type: none"> ➤ Roadworthiness, ➤ Fitness for drivers , ➤ Loads on Vehicles, ➤ Transportation of Dangerous good, ➤ Road traffic signs, ➤ All vehicles to adhere to the provisions of the act. 	<p>As part of the Health and Safety mitigation measures in the EMP: Road traffic signs to be erected during the Initiation Phases and maintained during the Prospecting Phase.</p>

National Heritage Act Act No. 27 of 2004, Government Notice No. 287 of 2004	<ul style="list-style-type: none"> ➤ Provides for protection and conservation of places and objects of heritage significance and the registration of such places and objects. 	Although no sensitive archaeological or heritage features have been identified in the area, such artefacts may be discovered during project activities.	Chance finds procedures of possible heritage / archaeological finds have been included as a condition to be conducted in the EMP.
Hazardous Substances Ordinance Ordinance No. 14 of 1974	<ul style="list-style-type: none"> ➤ Applies to the manufacture, sale, use, disposal and dumping of hazardous substances as well as their import and export. ➤ Aims to prevent hazardous substances from causing injury, ill-health, or the death of human beings. 	Various hazardous substances will be used during some phases of the proposed project.	Handling, storage and disposal of such substances have been identified as per specific impacts as per the SR and EMP which details management measures for hazardous substances throughout the project.
Pollution Control and Waste Management Bill (draft document)	<ul style="list-style-type: none"> ➤ Not in force yet, ➤ Provides for prevention and control of pollution and waste, ➤ Provides for procedures to be followed for licence applications. 	Various waste streams will be generated. These include possible chemical and physical pollution.	Waste management measures have been highlighted in this report and management measures have been included in the EMP.
Legislation / Policy	Summary	Applicability to Assessment	Included in Report
International Law			
Stockholm Declaration on the Human Environment, Stockholm 1972.	<ul style="list-style-type: none"> ➤ Recognizes the need for a common outlook and common principles to inspire and guide the people of the world in the preservation and enhancement of the human environment. 	The proposed development is near various settlements.	Identifying potential impacts of the project. The EMP has measures to mitigate negative impacts and enhance positive impacts

United Nations Framework Convention on Climate Change (UNFCCC)	<ul style="list-style-type: none"> ➤ The Convention recognises that developing countries should be accorded appropriate assistance to enable them to fulfil the terms of the Convention. 	Some emissions may be released during the Prospecting Phase of the proposed development.	Emissions are planned to fall outside of the World Health Standards. Should such parameters be exceeded all necessary steps are to be taken to reduce emissions as mentioned in this report.
Convention on Biological Diversity, Rio de Janeiro, 1992	<ul style="list-style-type: none"> ➤ Under article 14 of The Convention, EIAs must be conducted for projects that may negatively affect biological diversity. 	The site might have sensitive features.	Aspects of the biodiversity has been included in this report and EMP.
United Nations Convention to Combat Desertification (UNCCD)	<ul style="list-style-type: none"> ➤ Aims at land management and combating desertification/land degradation to contribute to the conservation and sustainable use of biodiversity and the mitigation of climate change. 	Infrastructure development of the proposed project will impact on the soils and further pose risks to soil contamination in the Prospecting Phases.	Principles of soil conservation and pollution prevention have been included the EMP which will be submitted in support of an ECC.

4 GOAL, AIM AND STRUCTURE OF THE ENVIRONMENTAL MANAGEMENT PLAN

The ultimate goal of an Environmental Management Plan (EMP) is to ensure that the physical, biophysical and socio-economic objectives are met to such an extent that the overall product of the activity will not result in a net negative impact.

The aim of the EMP is to assist the Proponent and their Contractor(s) to ensure that the day-to-day operations are carried out in an environmentally responsible manner, thereby preventing or minimizing the negative effects and maximizing the positive effects of the proponent's current and proposed exploration activities.

Once approved by the Directorate of Environmental Affairs (DEA), Ministry of Environment and Tourism (MET), in the form of an Environmental Clearance Certificate (ECC), the EMP will become a legally binding document and the Company, its Contractor(s), and their Sub-Contractor(s) are required to abide to the conditions stipulated in the EMP.

The EMP is presented as a comprehensive matrix: for each Activity/Process and related Aspects and Impacts, Management Actions required to address the impacts arising directly and indirectly from the various aspects of the current and proposed exploration activities are listed. Copies of the EMP should be made available at the Office of OCM during the exploration and rehabilitation phases of the Project. External auditing (and monitoring) should be carried out to ensure compliance with the EMP. Parties responsible for transgression of the EMP should be held responsible for any rehabilitation that needs to be undertaken.

Note that the EMP is not a static document and that the document should be updated as the Project progresses/more information re the proposed activities becomes available.

5 ENVIRONMENTAL MANAGEMENT PRINCIPLES

Opuwo Cobalt Mining (Pty) Ltd will ensure that all parties involved in the project follow company aims as listed hereunder:

1. **All personnel will be required to conduct activities in a manner that is environmentally and socially friendly. This includes all consultants, contractors, and sub-contractors, transporters, guests and anyone entering the EPL areas in connection with the project.**
2. **Health, Safety and Social Well Being**
 - Safeguard the health and safety of project personnel and the public against potential impacts of the project. This includes issues of road safety, precautions against natural dangers on site, and radiation hazards; and,
 - Promote good relationships with the surrounding settlements and other stakeholders.
3. **Biophysical Environment**
 - Wise use and conservation of environmental resources, giving due consideration to the use of resources by present and future generations;

- Prevent or minimise environmental impacts;
- Prevent air, water, and soil pollution; and
- Biodiversity conservation.

The following principles need to be maintained in order to attain the purpose of the environmental project:

a. Commitment and Accountability

Company senior executives and line managers will be held responsible and accountable for:

- Health and safety of site personnel while on duty, including travelling to and from site in company vehicles: and,
- Environmental impacts caused by exploration activities or by personnel engaged in the exploration activities.

b. Competence

The company will ensure a competent work force through appropriate selection, training, and awareness in all safety, health and environmental matters.

c. Risk Assessment, Prevention and Control

Identify, assess and prioritise potential environmental risks. Prevent or minimize risks through careful planning and design, allocation of financial resources, management and workplace procedures. Intervene promptly in the event of adverse impacts arising.

d. Performance and Evaluation

Set appropriate objectives and performance indicators. Comply with all laws, regulations, policies and the environmental specifications. Implement regular monitoring and reporting of compliance with these requirements.

e. Stakeholder Consultation

Create and maintain opportunities for constructive consultations with employees, authorities, and other interested or affected parties. Seek to achieve open exchange of information and mutual understanding in matters of common concern.

f. Continual Improvement

Through continual evaluation, reports, and innovation, seek to improve performance with regard to social health and well-being as well as environmental management throughout the lifespan of the project.

g. Financial Provisions for Exploration

In line with the internationally recognized “polluter pays principle” the company will make the necessary financial provision for compliance with the EMP.

6 ROLES AND RESPONSIBILITIES FOR ENVIRONMENTAL MANAGEMENT

6.1 Communication between Parties

Emphasis will be put towards open communication between all parties, in order to reach a proactive approach towards potential environmental issues deriving from the project. This approach should guarantee that environmental impacts are anticipated and prevented, or minimized, rather than adopting a negative “policing” approach after negative impacts have already occurred.

The importance of a proactive approach cannot be overemphasized, particularly in relation to preventing unnecessary tracks, and damage to vegetation (i.e., protected and endemic species) as these impacts cannot easily be remedied.

6.2 The Exploration Company

The company is ultimately responsible for all stages of the project and the impacts resulting from those activities.

The responsible persons will be the company’s Environmental Control Officer and Managing Director to ensure that:

- The EMP and its environmental specifications are included in contractual documents and it is required that contractors, and subcontractors, consultants etc. do meet the EMP requirements;
- The company and all its subcontractors, consultants etc. comply with all Namibian legislation and policies and any relevant International Conventions;
- Compliance with the environmental specifications are enforced on a day-to-day basis;
- Environmental audits are conducted periodically by a suitably qualified ECO to confirm that the environmental requirements are properly understood and effectively implemented;
- Sufficient budget is provided to implement those measures that have cost implications;
- The Site Manager must commission tree surveys well in advance of planned road construction or drill pad preparation so that the necessary site visits by forestry personnel and forestry permits are acquired; and,
- Open and effective communication is maintained between all parties concerning environmental management on the project.

6.3 Site Managers

Day-to-day responsibility for environmental management will be assigned to the ECO and Manager Field Operations (MFO) for the duration of all exploration activities to:

- Be familiar with the contents of the EMP and applicable sections of the EIA and the measures recommended therein;
- Monitor compliance with the environmental specifications on a daily basis and enforce the environmental compliance on site by communicating the ECO’s directions to all personnel involved;

- In the event of any infringements leading to environmental damage, personnel needs to consult with the ECO and seek advice on any remedial measures to limit or rectify the damage;
- Maintain a record (photographic and written) of “before-and-after” conditions on site;
- Facilitate communication between all role players in the interests of effective environmental management; and,
- Plan and mark out new access routes in advance and arrange for plant surveys by a suitably qualified person so that forest permits can be applied for.

6.4 Environmental Control Officer (ECO)

Opuwo Cobalt Mining (Pty) Ltd must appoint a suitably qualified ECO who is responsible to:

- Undertake environmental audits of overall compliance with the environmental specifications. This should be done at least bi-annually for the exploration area,
- Submit a site inspection report to the Managing Director and MFO;
- Advise the MFO on interpretation and implementation of the environmental specifications as required; and,
- Make recommendations for remedial action in cases of non-compliance with the environmental specifications.
- The report should be submitted to the MET periodically at the time interval stipulated by law.

6.5 Drilling / Exploration Contractors

The drilling / exploration contractors will have the responsibility to:

- Familiarize themselves with the requirements of the EMP and comply with the environmental specifications within;
- Notify the ECO through the MFO timeously in advance of any actions that might have significant negative impacts. Mitigatory measures should be discussed and implemented before negative impacts arise;
- Conduct or arrange for environmental training for employees and sub-contractors;
- Undertake rehabilitation measures where required by the EMP. As far as possible, rehabilitation measures should be carried out progressively and not left till the end of the project.

7 PERMITS AND APPROVALS

A summary of the relevant legislation and regulatory authorities as far as permits and/or approvals are concerned, is provided in Table 2 below:

Table 3 - legislation and regulatory authorities for permits and/or approvals

Legislation	Regulatory Authority	Permit/Approval
Nature Conservation Ordinance No. 4 of 1975	Ministry of Environment and Tourism (MET)	A permit is required prior to the picking, cutting/chopping/picking off, taking, gathering, uprooting, damaging or destroying, or transporting, any protected plant.
Forest Act 12 of 2001 (as amended by the Forest Amendment Act 13 of 2005)	Ministry of Agriculture, Water and Forestry, Directorate of Forestry	A permit is required prior to the removal of any protected tree species.
National Heritage Act 27 of 2004	Ministry of Sport, Youth and National Service, Directorate National Heritage and Culture	Inform the National Heritage Council of Namibia should any archaeological material be found during the exploration phase
Environmental Management Act 7 of 2007	Ministry of Environment and Tourism (MET), Directorate of Environmental Affairs	Environmental Clearance Certificate.
Labour Act 11 of 2007	Ministry of Labour, Industrial Relations and Employment Creation	Permission is needed to run 12-hour shifts (should such be required).

Table 4 - Environmental Management Plan for the exploration and rehabilitation phases current and proposed exploration activities (LM, 2016)

ASPECT	IMPACT	MITIGATION/COMPENSATION
Exploration and Rehabilitation: Social and Environmental Performance		
Management and Monitoring	Social and Environmental Performance	<p>Adhere to all Namibian Legislation, including Best Practice Guidelines.</p> <p>Ensure that all aspects related to the Environmental Management Plan (EMP) are implemented during the exploration (and rehabilitation) phases.</p>
Consultation and Disclosure	Social and Environmental Performance	<p>Maintain open and direct lines of communication with the Authorities and Interested and Affected Parties (I&APs) (e.g., the Ministry of Environment Forestry and Tourism (MEFT), the Ministry of Mines and Energy (MME), the Traditional Authorities, and the Chairpersons/Managers of the Conservancies) with regards to environmental matters.</p> <p>Consult with I&APs throughout the project process and adequately incorporate I&APs' concerns.</p>
Grievance Mechanism	Social and Environmental Performance	<p>Implement a grievance mechanism for receiving and resolving any concerns and grievances related to the project's social and environmental performance throughout the project life cycle.</p> <p>Inform all I&APs about the mechanism.</p> <p>Address concerns promptly and transparently and in a culturally appropriate manner.</p> <p>Keep a register of all concerns/issues received from I&APs, as well as the measures taken to address these.</p>

<p>Training, including awareness and inductions</p>	<p>Social and Environmental Performance</p>	<p>Train employees and contractors in matters related to the project's social and environmental performance and Namibia's regulatory requirements.</p> <p>Ensure adequate environmental awareness training for all senior site personnel.</p> <p>Give environmental induction presentations to all site personnel prior to work commencement (note that rehabilitation issues need to be addressed, i.e., the need to avoid damage as far as possible and from the start).</p>
<p>Employment and procurement opportunities</p>	<p>Social and Environmental Performance</p>	<p>Include the EMP in the contract(s) with the contractors (e.g., drilling contractors)/service providers so that the latter can make provision for the implementation of the EMP.</p> <p>Penalties for non-compliance with the stipulations of the EMP should be agreed upon (and can be included in the contract documents).</p> <p>Source contracting companies/service provided at all times.</p> <p>Comply with all safety regulations re. electricity supply.</p> <p>Ensure that employees are trained in the use of appropriate fire fighting equipment and ensure that such equipment is on hand at all times.</p> <p>Provide and ensure the active use of Personal Protective Equipment (PPE) (e.g. protective glasses and dust masks in dusty working conditions, overalls, gloves, safety shoes and hard hats).</p> <p>Make suitable arrangements, as far as practicable, for the maintenance of health, the prevention and overcoming of outbreaks of disease and of adequate first aid services.</p> <p>Supply potable water for human consumption and other domestic uses; conduct chemical testing of water samples on a monthly basis (if applicable). A water supply borehole should not be within 30 m of a French drain, not within 30 m of fuel or waste oil storage areas, not within 100 m of a waste dumpsite and not within an active drilling area; conduct groundwater test pumping to ensure a perennial supply; water storage tanks/reservoirs to be insect and animal-proof and to be covered to reduce evaporation; ensure that pipelines laid from the borehole to the camp- and/or drill sites do not unduly disturb vegetation and/or soil;</p>

		<p>drinking-water quality to be in accordance with the Ministry of Agriculture, Water and Rural Development’s Guidelines for the evaluation of drinking-water quality for human consumption with regard to chemical, physical and bacteriological quality.</p> <p>Prevent communicable disease (e.g., Sexually Transmitted Infections (STIs) such as HIV transmission): provide surveillance and active screening and treatment of employees; prevent illness among employees (through health awareness and education initiatives); ensure ready access to medical treatment, confidentiality and appropriate care, particularly with respect to migrant workers; and promote immunization.</p> <p>Ensure that security arrangements are in place.</p>
<p>Community Health and Safety</p>	<p>Social and Environmental Performance</p>	<p>Notice or information boards relating public health and safety hazards and emergency contact details should be put up at the entrances to the Exclusive Prospecting License (EPL)-areas/pits and trenches/drill site(s)/blasting sites.</p> <p>Transport safety: all vehicles/trucks moving on the roads should not exceed 60 kilometres per hour (km/h).</p> <p>Enforce a strict ban on the recruitment of workers at the entrances to the EPL-areas and on visitors gaining entry to the workers on site.</p> <p>Restrict construction activities to demarcated areas; all other areas will be regarded as "no go" zones in order to minimize the impact on the surrounding land/properties.</p>

ASPECT	IMPACT	MITIGATION/COMPENSATION
Exploration: General		
Exploration Activities	Disturbance of fauna and flora and habitat alteration	<p>Carry out a baseline ecological survey (of the vertebrate fauna and flora) prior to any trench sampling (and especially blasting), bulk sampling (and especially blasting), or drilling, being carried out in sensitive mountain habitats.</p> <p>Avoid important habitats (e.g., ephemeral rivers, rocky outcrop and mountainous areas, and clumps of protected tree species) in the selection of camp and other temporary lay over sites.</p> <p>Avoid the removal of any protected flora species as far as feasible. A permit is required prior to the picking, cutting/chopping/picking off, taking, gathering, uprooting, damaging or destroying, or transporting any protected tree and/or plant.</p> <p>No trees or natural vegetation may be removed for the making of fires.</p> <p>No fires will be allowed, unless a specific area has been set aside for the cooking of food.</p> <p>Ensure that the kitchen areas/areas where fires will be made are cleared of grass (to prevent accidental fires which could cause wildlife and domestic stock mortalities).</p> <p>Ensure the availability of firefighting equipment (e.g., fire beaters, spades, extinguishers, etc.) at the exploration/camp sites.</p> <p>Avoid introducing dogs and cats as pets to the camp sites (these can cause significant mortalities to local fauna (by cats) and even stock losses (by dogs)).</p> <p>Do not introduce non-indigenous/invasive alien plant species.</p>

		<p>Implement a policy of “no kill” with regards to fauna (e.g., poaching for meat (snares); the collection of veld foods (e.g., tortoises); the capture/killing of birds; the killing of snakes, etc.).</p> <p>No wild animal may be injured, fed, trapped, hunted or harmed in any way.</p> <p>Should areas have to be cordoned off (e.g., pits, trenches and drill sites), alternative arrangements should be made to ensure that livestock can have access to grazing areas and water points at all times.</p> <p>Implement a suitable and appropriate refuse removal policy (littering could result in certain animals becoming accustomed to humans and the associated activity and result in typical problem animal scenarios).</p> <p>Avoid off-road and unnecessary nocturnal driving in the area (as it could result in the destruction of slow moving fauna, i.e. various reptiles and other nocturnal species).</p> <p>Implement and maintain (internal) track discipline with maximum speed limits (e.g. 30 km/h; in the villages and around animals, a speed limit of 20 km/h to be enforced) (this would result in fewer faunal road mortalities and associated dust pollution problems).</p> <p>Teach drivers to use three-point turns (vs full circle turns), or restrict turning to designated areas.</p> <p>Make use of existing tracks/roads as much as possible; where tracks have to be made, the routes should be selected so as to cause minimal damage to the environment (e.g., cross drainage lines at the right angles, and avoid placing tracks within drainage lines).</p>
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		<p>Restrict all activities to previously demarcated areas; all other areas will be regarded as "no go" zones in order to minimize the impact on the surrounding land.</p> <p>No trespassing on adjoining properties is allowed and no game/vegetation is to be interfered with.</p>
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ASPECT	IMPACT	MITIGATION/COMPENSATION
Exploration Activities	Loss of or damage to archaeological material	<p>All staff (i.e., personnel, contractors, subcontractors, etc.) to be made aware of the provisions of the National Heritage Act 27 of 2004 with regard to the protection of all archaeological sites and the need to report any new finds.</p> <p>Consult with the Traditional Authorities and the Chairpersons of the communal conservancies re the location of e.g., grave(s) in the EPL-area.</p> <p>Carefully examine the area before any site preparation/excavation is undertaken.</p> <p>Implement the Chance Finds Procedure (see Annexure B of the scoping report): should a possible or suspected site be discovered (e.g., a grave), immediately stop work, cordon the area off and photograph the area/site; immediately inform the project manager/supervisor, and contact Dr Kinahan, the National Heritage Council of Namibia, and the Police in Opuwo.</p> <p>Under no circumstances are archaeological and/or cultural heritage sites to be disturbed or any relics to be removed from such a site.</p>
Exploration Activities	Pollution of biophysical environment (air, soil and water)	<p>No fires will be allowed, unless specific areas have been identified and set aside for the cooking of food. Cooking appliances are to be properly maintained and ventilated.</p> <p>Pit latrines to be provided and used at the exploration and camp sites(s).</p> <p>Sanitary wastewater to be released into a French drain system.</p> <p>Use bio-degradable detergents on site.</p> <p>Vehicle maintenance/servicing/washing not to be allowed anywhere on site.</p> <p>Fuel tanks (portable), gas cylinders and chemicals (if relevant) are to be properly stored and transported.</p> <p>All diesel generators on site to be placed on concrete slabs/a tarpaulin sail.</p> <p>Oil and grease traps or sumps to be installed and maintained.</p> <p>Immediately report and clean up any accidental hydrocarbon spill: Sunorb, Drizit, Peatsorb can be used to clean up small spills; in case of larger spills, the</p>

		<p>spill together with the polluted soil should be removed and disposed of at e.g., a biological remediation site; ensure the availability of absorbent pads and/or spill kits and ensure that personnel are trained in their use.</p> <p>Enforce proper waste (hazardous and non- hazardous) management practices (as per Waste Management Plan) – waste and litter to be disposed of in scavenger and weatherproof bins and the refuse to be collected and disposed of at least once a week.</p>
<p>Exploration Activities (Soil Sampling, Pits and Treches, and Drilling)</p>	<p>Clearing of vegetation for exploration activities / negative impact on floral species</p>	<p>Carry out a baseline ecological survey (of the vertebrate fauna and flora) prior to any trench sampling (and especially blasting), bulk sampling (and especially blasting), or drilling, being carried out in sensitive mountain habitats.</p> <p>Avoid the removal of and/or damage to any protected flora species as far as feasible. A permit is required prior to the picking, cutting/chopping/picking off, taking, gathering, uprooting, damaging or destroying, or transporting any protected tree and/or plant.</p> <p>Do not clear any vegetation more than six months in advance of when it is required.</p> <p>Bulldozer blading and clear cutting to be avoided (if possible) (excavators and backhoes do a neater job), also clearing with heavy machinery.</p> <p>Where possible, preserve the organic mat, i.e., drive over flattened vegetation (for rootstock preservation and the prevention of soil erosion). Leave large trees standing where possible.</p> <p>Reduce the visual impact of vegetation clearance as far as possible. E.g., weave roads around trees or relocate facilities to help reduce the visual impact of vegetation clearance.</p> <p>Avoid removing vegetation adjacent to rivers and streams. Leave a buffer zone of undisturbed vegetation at least 10 m wide on either side of the stream or waterway.</p> <p>Cutting vegetation: cut vegetation close to ground level; buck cut trees; trim overhanging vegetation; do not feel live saplings of any species over 150 mm in diameter unless absolutely necessary.</p> <p>Line Cutting and Surveys: use hand tools to cut lines; survey lines or walking</p>

		tracks to not exceed 1 m in width; only use biodegradable and then also only small lengths of tape.
Exploration Activities (Pits and Trenches)	Land disturbance / negative impact on floral species	<p>Locate trenches and pits to avoid large trees (>150 mm in diameter) (where feasible), or pre-cut trees and move them to one side for salvage.</p> <p>For large trenches that will be left open for weeks or months, strip the topsoil and move it to one side of the trench into long, narrow piles, no more than 1-2 m in height; ensure proper drainage through the topsoil piles.</p> <p>Place the subsoil plus any excavated rock in separate piles (i.e., not on top of the topsoil).</p> <p>Use excavators and backhoes to dig trenches (vs bulldozers).</p> <p>When refilling the trench, replace the rock and subsoil first, and then the topsoil/vegetation layers. If topsoil is stored for more than three months, fertilizing may be needed and if it is stored for more than six months, seeding may be beneficial.</p>
Exploration Activities (Drilling, including rigs, vehicles, generators)	Pollution of biophysical environment (soil and groundwater)	<p>Use biodegradable and non-toxic drill fluids/additives.</p> <p>All diesel generators on site to be placed on a tarpaulin sail.</p> <p>Oil traps to be installed in appropriate places to collect potential toxic materials.</p> <p>Immediately report and clean up any accidental hydrocarbon spill: Sunisorb, Drizit, Peatsorb can be used to clean up small spills; in case of larger spills, the spill together with the polluted soil should be removed and disposed of at e.g., a biological remediation site.</p> <p>Ensure the availability of absorbent pads and/or spill kits and ensure that personnel are trained in their use.</p> <p>(Backfill or) seal all drill holes with a steel or uPVC casing equipped with a secure cap (to prevent groundwater contamination from taking place through the drill holes).</p> <p>Drill cuttings not to be used for backfilling; use clean sand or clay where possible.</p>

		Drill holes not to be used as pit latrines and/or for the disposal of waste.
Exploration Activities	Possible loss of the seed bank in the topsoil	<p>Any decaying vegetation, overlying the soil layer, should be removed first and stockpiled.</p> <p>The upper layer of soil (10 - 20 cm), where alluvial, to be stripped and stockpiled separately (1 – 2 m high piles to allow for proper aeration). Install drainage to protect the topsoil pile from (water) erosion and cover it to protect it from (wind) erosion.</p> <p>Any excavated subsoil and rock also to be stockpiled for backfilling</p>
Exploration Activities (airborne geophysical survey)	Noise pollution (disturbance of fauna, landowners and residents)	<p>Inform and discuss flight plans with the Traditional Authorities.</p> <p>Avoid flying over residences and game/livestock enclosures (if feasible).</p> <p>No wildlife to be chased, diverted, followed, or otherwise harassed by aircraft.</p>
Exploration Activities	Soil erosion	<p>Sediment mobilization and transport: reduce or prevent soil erosion (schedule activities to avoid heavy rainfall periods;</p>

ASPECT	IMPACT	MITIGATION/COMPENSATION
		<p>contour and minimize length and steepness of slopes; mulching to stabilize exposed areas; re-vegetate areas promptly (if feasible); and design channels and ditches for post-construction flow). Note that the area(s) towards and adjacent to the drainage line(s) are easily eroded and further development may exacerbate this problem.</p> <p><u>Road design</u>: limit access road gradients to reduce run-off induced erosion; provide adequate road drainage based on road width, surface material, compaction and maintenance.</p> <p><u>Structural (slope) stability</u>: provide effective short-term measures for slope stabilization, sediment and subsidence control until long-term measures (during operations) can be implemented; provide adequate drainage systems to minimize and control infiltration.</p>
Increased traffic, presence and movement of machinery	Air quality (dust or Particulate Matter (PM) pollution)	<p>Minimize dust generation from vehicles on the roads; all vehicles, trucks moving in the area should not exceed 30 km/h; in the villages and around animals, a speed limit of 20 km/h to be enforced.</p> <p>Minimize the area in which the movement of vehicles will take place to reduce the effects of dust pollution.</p> <p>Avoid the excavation, handling and transport of erodible materials under high wind conditions or when a visible dust plume is present.</p> <p>Maintain the road surface to preserve surface characteristics (e.g. texture and roughness).</p> <p>Use dust control/suppression methods (if needed), such as applying water or non-toxic chemicals to minimize dust (oil and oil by-products is not a recommended measure to control road dust).</p>
Increased traffic, presence and movement of machinery (exhaust from diesel engines)	Air quality & Occupational and Community Health and Safety	Implement manufacturer recommended engine maintenance programmes (to control vehicle emissions: Carbon Monoxide (CO), Nitrogen Oxide (NO _x), Sulphur Dioxide (SO ₂), Particulate Matter (PM) and Volatile Organic Compounds (VOCs)).

<p>Increased traffic, movement of machinery</p>	<p>Occupational and Community Safety</p>	<p>Adopt best transport safety practices by implementing the following measures: emphasize safety aspects among drivers; improve driving skills and require licensing of drivers; adopt limits for trip duration; avoid dangerous routes and times of day; and use speed control devices.</p> <p>Regularly maintain vehicles and use manufacturer approved parts.</p> <p>Use locally sourced materials (where possible) to minimize transport distances.</p> <p>Employ safe traffic control measures, including the use of traffic and safety warning signs and flag persons to warn of dangerous conditions.</p>
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ASPECT	IMPACT	MITIGATION/COMPENSATION
Use of Explosives for Blasting	Occupational Health and Safety	Ensure that the use, handling, and transporting of explosives is in accordance with the Regulations of the Explosives Act 26 of 1956.
Exploration: Change in Land Use		
Exploration Activities	Change in land use	<p>Restrict all exploration and related activities to demarcated areas; all other areas will be regarded as "no go" zones in order to minimize the impact on the surrounding land.</p> <p>Should areas have to be cordoned off (e.g., pits, trenches and drill sites), alternative arrangements should be made to ensure that livestock can have access to grazing areas and water points at all times.</p>
Exploration: Resource Use		
Energy Management	Resource use (e.g., coal) / depletion of natural resources	<p>Promote the sustainable use of energy (that will result in the reduction of use and cost reductions) (e.g., energy efficient light sources).</p> <p>Raise awareness amongst the staff and contractors/service providers (to save energy).</p>
Water Management	Resource use / depletion of natural resources	<p>Ensure prudent use of water in all activities.</p> <p>Implement a water conservation program, promoting the continuous reduction in water consumption; treatment and disposal costs commensurate with the magnitude and cost of water use.</p> <p>Water storage tanks to be insect and animal-proof and to be covered to reduce evaporation.</p>
Exploration: Hazardous Materials Management		

<p>Hazardous materials management</p>	<p>Social and Environmental Performance</p>	<p>Establish hazardous materials management priorities (based on hazard analysis of risky operations).</p> <p>Avoid, or minimize the use of hazardous materials.</p> <p>Prevent uncontrolled releases of hazardous materials to the environment or uncontrolled reactions that may result in fire or explosion.</p>
<p>Hazardous materials management</p>	<p>Pollution of biophysical environment (soil and water)</p>	<p>Implement prevention and control measures for the use, handling and storage of hazardous materials:</p> <p><u>Materials transfer</u>: regularly inspect, maintain and repair fittings/pipes/hoses; make use of drip trays/other drip containment measures at connection/possible overflow points; <u>Overfill protection</u>: use trained filling operators; install gauges on tanks to measure the volume inside; make use of dripless hose connections (vehicle tanks) and fixed connections (storage tanks); use a catch basin/drip tray around the fill pipe to collect spills;</p> <p>Reaction, fire, and explosion prevention: hazardous materials to be stored in marked containers and separate (from non-hazardous materials); incompatible hazardous materials (acids, bases, flammables, oxidizers, reactive chemicals) to be stored in separate areas and with containment facilities separating material storage; smoking or working with open flames not to be permitted in the presence of these substances; limit access to hazardous waste storage areas and clearly label and demarcate the area; conduct regular inspections of the areas and document the findings; prepare and implement spill response and emergency plans; train employees in the use of appropriate firefighting equipment and ensure that such equipment is on hand at all times.</p> <p>Secondary containment: use bunding (made of impervious, chemically resistant material) that can contain the larger of 110% of the largest tank or 25% of the combined tank volumes for above-ground tanks with a total storage volume equal or greater than 1,000 litres.</p>

		<p>Train workers on the correct transfer and handling of fuels and chemicals and the response to spills.</p> <p>Immediately report and clean up any accidental hydrocarbon spill: Sunisorb, Drizit, Peatsorb can be used to clean up small spills; in case of larger spills, the spill together with the polluted soil should be removed and disposed of at e.g., a biological remediation site.</p>
<p>Hazardous materials management</p>	<p>Occupational Health and Safety</p>	<p>Implement hazard communication and training programmes (including information on Material Safety Data Sheets (MSDS)) to make employees aware of workplace chemical hazards and how to respond to these.</p> <p>Provide and ensure the active use of PPE.</p>

ASPECT	IMPACT	MITIGATION/COMPENSATION
Exploration: Waste Management		
<p>Waste management: non-hazardous and hazardous</p>	<p>Pollution of biophysical environment</p>	<p>Prepare and submit a Waste Management Plan before the activities commence. The generation of waste should be avoided or minimized as far as practicable; where it cannot be avoided, but has been minimized, waste should be recovered and reused; where waste cannot be recovered/reused, it should be treated, destroyed and disposed of in an environmentally sound manner.</p> <p>Institute and maintain good housekeeping and operating practices; littering is not allowed.</p> <p>Runoff from areas where surface water might have become contaminated should be captured and treated to sewage effluent standards; uncontaminated runoff should be diverted around areas where such water might become contaminated.</p> <p>Non-hazardous and hazardous waste to be collected and stored separately.</p> <p>Non-hazardous waste: refuse (that will not be recycled) to be stored in covered refuse bins, collected on a regular basis and disposed of at a waste disposal facility (e.g., Opuwo).</p> <p>Non-hazardous, recyclable waste: refuse to be stored in covered bins/bags, collected on a regular basis and disposed of at the waste disposal facility in Windhoek.</p> <p>Hazardous waste: recycle petroleum (fuels and lubricants) waste products and collect and recycle batteries and print cartridges (if relevant). The remainder to be transported to a recognized hazardous waste disposal site (e.g., Windhoek).</p>

ASPECT	IMPACT	MITIGATION/COMPENSATION
Waste management: sanitary	Pollution of biophysical environment	<p>Pit latrines to be provided and used at the exploration and camp sites(s).</p> <p>Sanitary wastewater to be released into a French drain system.</p> <p>Ensure that the discharge of sanitary wastewater to land conform to the regulatory requirements.</p>
Wastewater management - wastewater treatment	Pollution of biophysical environment	<p>Ensure that the discharge of process wastewater and/or sanitary wastewater and/or wastewater from utility operations and/or stormwater to land conform to the regulatory requirements (if relevant).</p> <p>Runoff from areas where surface water might have become contaminated should be captured and treated to sewage effluent standards; uncontaminated runoff should be diverted around areas where such water might become contaminated.</p>
Wastewater management - stormwater management	Soil erosion	Regular inspection and maintenance of permanent erosion and runoff control features.
Rehabilitation & Decommissioning		
Rehabilitation	Social and Environmental Performance	<p>Rehabilitation to take place on a continuous basis.</p> <p>Drill dust to be raked into already disturbed areas (e.g., tracks), or the dust to be removed to a dump site.</p> <p>If water is struck while drilling, a sump must be built to capture the mud; the water must be left to evaporate; salt crusts must then be covered with gravel and topsoil / removed.</p> <p>Disturbed areas to be backfilled with rocks and subsoil, and then the topsoil/vegetation</p>

ASPECT	IMPACT	MITIGATION/COMPENSATION
		<p>layers. If topsoil is stored for more than three months, fertilizing may be needed and if it is stored for more than six months, seeding may be beneficial.</p> <p>Manually rip (using picks or rakes) disturbed areas where compaction has taken place; avoid creating parallel furrows (this will promote erosion).</p> <p>Reshape all disturbed areas to their original contours / manually rip disturbed areas, where compaction has taken place.</p> <p>Manually remove all weedy / invasive alien species that are present at the site.</p> <p>Adequately drain pipelines and tanks prior to decommissioning (to avoid pollution of the biophysical environment (soil and groundwater)).</p>
Decommissioning	Social and Environmental Performance	<p>Clean out the oil traps, seal all petrol, diesel, oil and grease containers and remove these from the site(s) to a recognized hazardous waste facility (in Windhoek).</p> <p>Remove all equipment, waste, temporary structures, etc. from the site(s).</p> <p>Pending the approval by the relevant people, the Company may donate infrastructure, etc. to the Community or Organizations aimed at uplifting the standards of the local Communities.</p> <p>Inform the Ministry of Environment Forestry and Tourism to assess the rehabilitation effort for approval and signoff.</p>

8 MONITORING AND REPORTING

The following monitoring and reporting, at least but not limited to need to be carried out during the exploration and rehabilitation phases:

Table 5 - Monitoring and reporting program. (LM, 2016), (updated: L Amwele,2023)

Type	Parameter	Frequency	Responsible Person
Exploration drill holes	Rest water level	Once off	Designated Person(s)
	(Identify) clay layers	<i>Ad hoc</i>	
	Water strike depths	<i>Ad hoc</i>	
Abstraction boreholes	Volumes of groundwater abstracted	Weekly	Designated Person(s)
	Pump water levels	Weekly	
Hazardous materials management	Hydrocarbon spills of more than 200 litres	<i>Ad hoc</i> ; inform the Minister, Ministry of Mines and Energy, by completing form PP/11 (Petroleum Products Regulations 2000)	Designated Person(s)
Stormwater and soil erosion	Soil erosion rates	<i>Ad hoc</i> (rainy season)	Designated Person(s)
Environmental Management Plan	Environmental performance / corrective measures to be taken as or when required	Internal audits (monthly) External audits (bi- annual)	Designated Person(s)

9 CONCLUSIONS AND RECOMMENDATIONS

The ongoing exploration will have potential impacts on the environment, and these will be of a positive, as well as a negative nature. The major, moderate, negative, and slight negative impacts could be relatively easily and effectively mitigated through the implementation of certain management measures contained in the Environmental Management Plan for the exploration and rehabilitation phases.

It is advised that the Environmental Management Plan should be implemented from the beginning of each exploration phase and exploration program and generally on an ongoing basis; that environmental performance is regularly monitored (so that the lessons learnt during the exploration phase can be incorporated into the improvement of the Environmental Management Plan over time); and that corrective measures are taken as or when required.

The Minerals (Prospecting and Mining) Act 33 of 1992 requires (Section 54(2)(b)) that should a prospecting area be abandoned (as provided in subsection (1)), the holder of the mineral license *take all such steps as may be necessary to remedy to the reasonable satisfaction of the Minister any damage caused by any prospecting operations and mining operations carried on by such holder to the surface of, and the environment on, the land in the area in question.* It is recommended that, where feasible, rehabilitation off allexploration sites be carried out as the exploration programme progresses.

10 REFERENCES

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APPENDIX A - EXPIRED ECC

ENVIRONMENTAL REPORT (ER)

(Prospecting Companies)

EPL 4346

INSTRUCTIONS:

1. An Environmental Report shall be submitted to the Ministry of Environment and Tourism (MET) biannually. Jan to Jun and Jun to December: Please indicate:

January to June 2020

2. This form shall be the minimum reporting format. Prospecting Companies are expected to attach a map of their prospecting area to this report. Prospecting Companies are welcome to attach any other information they like, such as copies of new agreements, letters of explanation, aerial photographs, or anything else of interest.
3. The map shall be used to indicate the following:
 - * Areas where prospecting has taken place,
 - * Roads or tracks made and/or used,
 - * Houses and other infrastructure erected,
 - * Excavations or other scars which have been rehabilitated,
 - * Conflict areas, etc....
4. It is recommended (but not compulsory) that Prospecting Companies attach photographs to their report which visually illustrate the activities described in their report.
5. Failure to submit an Environmental Report shall constitute a breach of the Environmental Contract, which could result in steps taken against the Prospecting Company.
6. All information contained in the Environmental Report shall be treated as Confidential.
7. The Prospecting Company shall ensure that all the information recorded in the Environmental Report is, to their best knowledge, accurate and correct.

Completed Environmental Reports should be sent to:

**The Permanent Secretary
Ministry of Environment and Tourism
Private Bag 13306
Windhoek**

For Attention: Mr. Theofilus Nghitila – Environmental Commissioner

A. COMPANY DETAILS AND REPORTING PERIOD:

Name of Company: Gecko Cobalt Mining (Pty) Ltd.

Address of Company: P.O. Box 81307, Olympia, Windhoek, Namibia.

Tel: 061-225826 Fax number: NA E-mail: Kaarina.Ndalulilwa@gecko.na

Name of person compiling report: Kaarina Ndalulilwa

Reference number (s) of prospecting area / block / license: EPL no. 4346

Geographical location of area / block / license: Opuwo, Kunene Region

This report is for the period of: (tick the relevant box and fill in the year)

January to June 2020

Other (please specify)

B. POLLUTION AND WASTE

Has all domestic refuse (eg. Household waste, bottles, tins, paper, plastic, etc) Been removed from the prospecting area? Yes No

If "yes" above, specify the site where such refuse has been deposited: Opuwo Waste Site

How often is refuse removed to the site mentioned above? every week
every two weeks
every three weeks
once a month
at irregular intervals

If refuse has not been removed, where has it been dumped? N/A

As far as litter is concerned, would you describe your prospecting area as: Very clean Reasonably clean Filthy

If your prospecting area is littered with refuse, please indicate how you intend cleaning it up:

N/A

Are toilets provided for all staff employed by the prospecting company: Yes No

If "yes" above, are they : Flush toilets Chemical Toilets Pit Latrines Other

If chemical toilets are used, how are old chemicals disposed of: N/A

Deposited in evaporation ponds Deposited in a municipal refuse dump
Buried on site Other (specify)

C. VEHICLES AND EARTHMOVING EQUIPMENT

Indicate the types and number of vehicles and earthmoving equipment used on site during the reporting period (tick box in front of the category of vehicles used and then fill in the next boxes to indicate numbers)

<input checked="" type="checkbox"/> Pick-up trucks (“bakkies”), either 2x4 or 4x4	How many in use	1
<input type="checkbox"/> Lorries / trucks between 5 - 10 ton capacity	How many in use	<input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/> Lorries / trucks larger than 10 ton capacity	How many in use	<input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/> Bulldozer of any size	How many in use	<input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/> Road Grader of any size	How many in use	<input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/> Front-end loader of any size	How many in use	<input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/> Drilling machine of any type	How many in use	<input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/> Other (specify)	How many in uses	<input type="checkbox"/> <input type="checkbox"/>

D. ROADS AND TRACKS

(In addition to ticking the following boxes, please draw roads/tracks made on an accompanying map in blue ink. Roads which have been rehabilitated (ie. restored to their natural state) can be scratched out in red pen.

Have new roads or tracks been made during the reporting period? Yes No

If “yes” above how long are these (in kilometres)? Km

If “yes” above are these still in use? Yes No

If “no” above have any of these roads or tracks been rehabilitated? Yes No

If “yes” above, how have you done such rehabilitation?
 Ripping Raking sweeping other (specify)

If road / track rehabilitation has taken place, how many kilometres of roads or tracks have been rehabilitated? Kilometres

E. TRENCHES OR PITS: *If new trenches or pits were made in the site / area during the reporting period, please indicate these by ticking the appropriate boxes and by means of illustrating them on the same map described above. New pits or trenches made should be numbered and drawn as a CIRCLE in blue ink, while pits or trenches which were rehabilitated during the reporting period should be scratched out in RED ink.*

Have new trenches or pits been excavated in your area during the reporting period?
 Yes No

If “yes” above, what are their approximate sizes or dimensions? (In metres) N/A

1. Trench / pit No.1: Size / dimensions: 8 Cubic metres or 2Length x 2 breadth x 2 depth
2. Trench / pit No.2: Size / dimensions: 8 Cubic metres or 2Length x 2 breadth x 2 depth
3. Trench / pit No.3: Size / dimensions: 8 Cubic metres or 2Length x 2 breadth x 2 depth
4. Trench / pit No.4: Size / dimensions: 8 Cubic metres or 2Length x 2 breadth x 2 depth
5. Trench / pit No.5: Size / dimensions: 8 Cubic metres or 2Length x 2 breadth x 2 depth
6. Trench / pit No.6: Size / dimensions: 8 Cubic metres or 2Length x 2 breadth x 2 depth
7. Trench / pit No.7: Size / dimensions: 8 Cubic metres or 2Length x 2 breadth x 2 depth
8. Trench / pit No.8: Size / dimensions: 8 Cubic metres or 2Length x 2 breadth x 2 depth

.....

Were any holes/trenches rehabilitated during this period of reporting?
 Yes (show on map) No

F. INFRASTRUCTURAL DEVELOPMENT

Infrastructural Developments means any offices, houses, sheds, cement slabs, or other buildings or foundations for buildings. It also includes storage tanks (for water, fuel or other substances), temporary housing such as mobile homes & caravans, prefab units and tented camps. Please report on new construction or additions to buildings you reported on, in your previous Environmental Report.

Was any NEW infrastructure established during this period? Yes No

If "yes" above, is this infrastructure: Permanent Temporary A combination

Describe infrastructure by ticking boxes: Offices Housing Sheds
 Prefab structure Garages Storage tanks
 Cement slabs Foundations Other

If "other", please specify:

G. BOREHOLES, SAMPLE HOLES OR OTHER DRILLING

This category includes holes drilled for water, for taking mineral or other samples, for setting explosives, for testing mineral quality, or any other purpose.

Were any holes drilled during this period? Yes No

If "yes", for which purpose were they drilled? Water depth Quantity
 Sampling depth Quantity
 Explosives depth Quantity

If "other", please specify: Depth Quantity

H. WATER

Your estimated monthly water consumption during this period was: NA

Water was obtained from: River Borehole Dam Water Affairs Other

Please estimate the percentage of water used for the following activities during this period:

Human consumption	100%
Toilets	<input type="checkbox"/> <input type="checkbox"/> %
Prospecting activities	<input type="checkbox"/> <input type="checkbox"/> %
Washing vehicles & equipment	<input type="checkbox"/> <input type="checkbox"/> %
Dust control	<input type="checkbox"/> <input type="checkbox"/> %
Building activities	<input type="checkbox"/> <input type="checkbox"/> %
Gardens	<input type="checkbox"/> <input type="checkbox"/> %
Recreation	<input type="checkbox"/> <input type="checkbox"/> %
Other (locals livestock)	<input type="checkbox"/> <input type="checkbox"/> %

Were there any accidents which caused a loss of water? Yes No

If "yes", please give details:

I. PROTECTION OF FAUNA AND FLORA

Please answer the following questions by ticking the appropriate boxes:

Question:	Yes	No	Unsure
Were any mammals, birds, reptiles or fish killed or wounded (Purposefully or accidentally) in the prospecting site or area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Were any plants (excluding grasses) picked, damaged or removed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Was there any wood collecting in the area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

J. RELATIONS WITH NEIGHBOURS, OFFICIALS AND/OR THE GENERAL PUBLIC

Were there any conflicts with neighbours, land-owners, Government Officials or the public during this period? Yes No

If "yes" above, what was the nature of these conflicts? (Tick boxes to provide answers)

People entered the prospecting area without permission or prior arrangement	<input type="checkbox"/>
Complaints about reduced access to water or other resources	<input type="checkbox"/>
Complaints about danger posed to livestock or wildlife	<input type="checkbox"/>
Allegations about stock-theft or poaching	<input type="checkbox"/>
Complaints about vehicle or equipment movement on access roads / tracks	<input type="checkbox"/>
Complaints about litter or other types of pollution (eg. Noise, dust, etc.)	<input type="checkbox"/>
Complaints about the activities / actions of company staff	<input type="checkbox"/>
Allegations that the Company was not adhering to contracts / agreements	<input type="checkbox"/>
Allegations that the Company damaged property or installations	<input type="checkbox"/>
Allegations that gates were left open or unlocked	<input type="checkbox"/>
Other (specify).....	<input type="checkbox"/>

If conflicts arose, indicate how these were resolved? (Tick boxes)

Verbal agreement after discussions.....	<input type="checkbox"/>
Written agreement by special contract.....	<input type="checkbox"/>
Instructions to company staff to avoid conflicts.....	<input type="checkbox"/>
Company rectified its mistakes and undertook to avoid future wrong-doing.....	<input type="checkbox"/>
Court action or other third party arbitration.....	<input type="checkbox"/>
Other (specify)	<input type="checkbox"/>
The conflicts remain unsolved.....	<input type="checkbox"/>

Any other comments or information:

- The company conducts its exploration activities from the nearby town of Opuwo.
- Due to depressed cobalt prices and the COVID-19 pandemic, little to no field exploration took place on the tenements.
- Studies undertaken during this period were non-intrusive, on core stored in the Opuwo warehouse (seismic impedance tests), metallurgical and mineralogical studies (processing laboratory work), environmental work towards the company's scoping studies, as well as limited field reconnaissance.
- The company also submitted the EPL renewal application to the MME during this period.

I declare that the information provided in this Environmental Report is, to the best of my knowledge, accurate and correct.

.....
Kaarina Ndalulilwa
Chief Geologist

Gecko Cobalt Mining (Pty) Ltd.

19 October 2020

.....
Prospecting Company

.....
Date

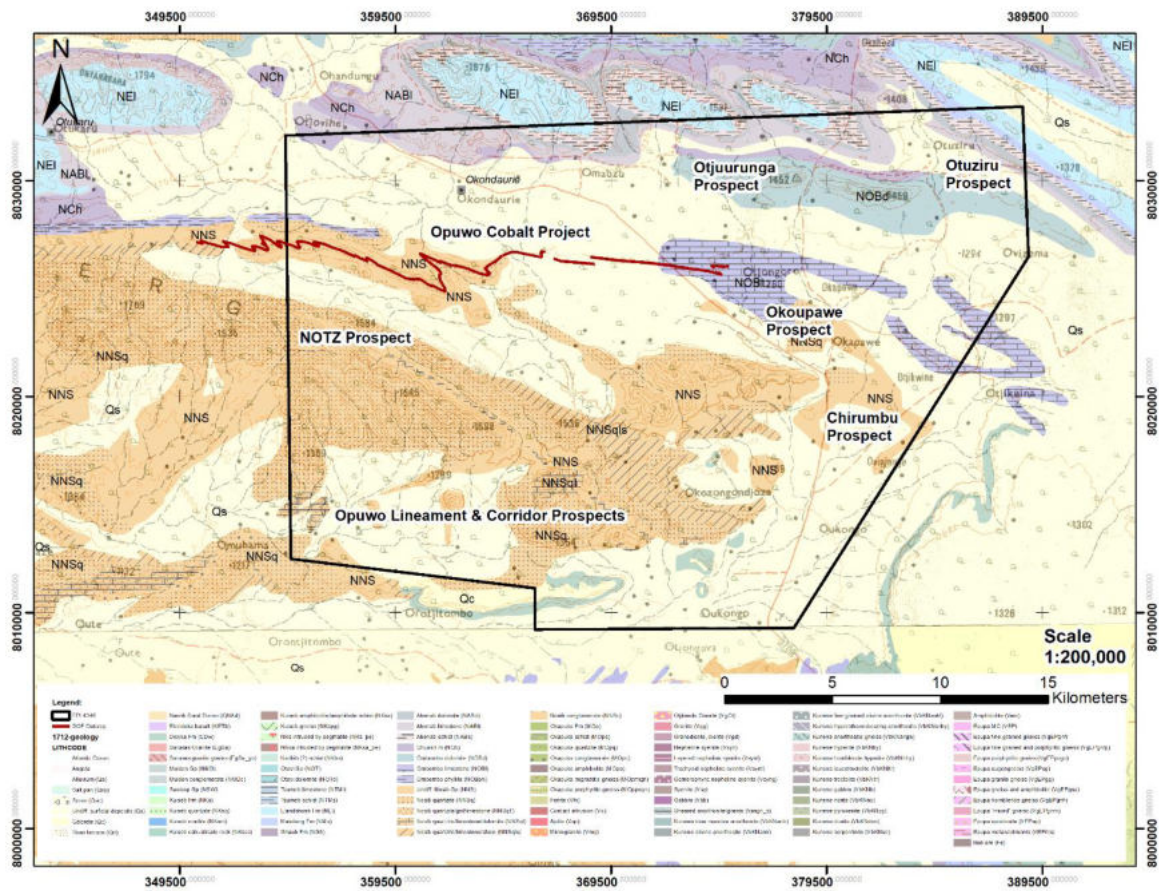


Figure 1: Geological map of EPL4346, located north of the town of Opuwo: Stratigraphy and prospecting projects.

**COPY
COPY**

**ENVIRONMENTAL REPORT (ER)
(Prospecting Companies)
EPL 4346**

INSTRUCTIONS:

1. An Environmental Report shall be submitted to the Ministry of Environment and Tourism (MET) biannually. Jan to Jun and Jun to December: Please indicate:

July - December 2020

2. This form shall be the minimum reporting format. Prospecting Companies are expected to attach a map of their prospecting area to this report. Prospecting Companies are welcome to attach any other information they like, such as copies of new agreements, letters of explanation, aerial photographs, or anything else of interest.
3. The map shall be used to indicate the following:
- * Areas where prospecting has taken place,
 - * Roads or tracks made and/or used,
 - * Houses and other infrastructure erected,
 - * Excavations or other scars which have been rehabilitated,
 - * Conflict areas, etc....
4. It is recommended (but not compulsory) that Prospecting Companies attach photographs to their report which visually illustrate the activities described in their report.
5. Failure to submit an Environmental Report shall constitute a breach of the Environmental Contract, which could result in steps taken against the Prospecting Company.
6. All information contained in the Environmental Report shall be treated as Confidential.
7. The Prospecting Company shall ensure that all the information recorded in the Environmental Report is, to their best knowledge, accurate and correct.

Completed Environmental Reports should be sent to:

**The Permanent Secretary
Ministry of Environment and Tourism
Private Bag 13306
Windhoek**

For Attention: Mr. Theofilus Nghitila – Environmental Commissioner

MINISTRY OF ENVIRONMENT, FORESTRY AND TOURISM
DIRECTORATE OF ENVIRONMENTAL AFFAIRS
15 JAN 2021
RECEIVED 1
Signature: 

A. COMPANY DETAILS AND REPORTING PERIOD:

Name of Company: Gecko Cobalt Mining (Pty) Ltd.

Address of Company: P.O. Box 81307, Olympia, Windhoek, Namibia.

Tel: 061-225826 Fax number: NA E-mail: Kaarina.Ndalulilwa@gecko.na

Name of person compiling report: Kaarina Ndalulilwa

Reference number (s) of prospecting area / block / license: EPL no. 4346

Geographical location of area / block / license: Opuwo, Kunene Region

This report is for the period of: (tick the relevant box and fill in the year)
July to December 2020
Other (please specify)

B. POLLUTION AND WASTE

Has all domestic refuse (eg. Household waste, bottles, tins, paper, plastic, etc) Been removed from the prospecting area? Yes No

If "yes" above, specify the site where such refuse has been deposited: Opuwo Waste Site

How often is refuse removed to the site mentioned above? every week
every two weeks
every three weeks
once a month
at irregular intervals

If refuse has not been removed, where has it been dumped? N/A

As far as litter is concerned, would you describe your prospecting area as: Very clean Reasonably clean Filthy

If your prospecting area is littered with refuse, please indicate how you intend cleaning it up:
N/A
.....

Are toilets provided for all staff employed by the prospecting company: Yes No

If "yes" above, are they : Flush toilets Chemical Toilets Pit Latrines Other

If chemical toilets are used, how are old chemicals disposed of: N/A
Deposited in evaporation ponds Deposited in a municipal refuse dump
Buried on site Other (specify)

C. VEHICLES AND EARTHMOVING EQUIPMENT

Indicate the types and number of vehicles and earthmoving equipment used on site during the reporting period (tick box in front of the category of vehicles used and then fill in the next boxes to indicate numbers)

<input checked="" type="checkbox"/> Pick-up trucks ("bakkies"), either 2x4 or 4x4	How many in use	1
<input type="checkbox"/> Lorries / trucks between 5 - 10 ton capacity	How many in use	<input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/> Lorries / trucks larger than 10 ton capacity	How many in use	<input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/> Bulldozer of any size	How many in use	<input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/> Road Grader of any size	How many in use	<input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/> Front-end loader of any size	How many in use	<input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/> Drilling machine of any type	How many in use	<input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/> Other (specify)	How many in uses	<input type="checkbox"/> <input type="checkbox"/>

D. ROADS AND TRACKS

(In addition to ticking the following boxes, please draw roads/tracks made on an accompanying map in blue ink. Roads which have been rehabilitated (ie. restored to their natural state) can be scratched out in red pen.

Have new roads or tracks been made during the reporting period? Yes No

If "yes" above how long are these (in kilometres)? Km

If "yes" above are these still in use? Yes No

If "no" above have any of these roads or tracks been rehabilitated? Yes No

If "yes" above, how have you done such rehabilitation?
 Ripping Raking sweeping other (specify)

If road / track rehabilitation has taken place, how many kilometres of roads or tracks have been rehabilitated? Kilometres

E. TRENCHES OR PITS: If new trenches or pits were made in the site / area during the reporting period, please indicate these by ticking the appropriate boxes and by means of illustrating them on the same map described above. New pits or trenches made should be numbered and drawn as a CIRCLE in blue ink, while pits or trenches which were rehabilitated during the reporting period should be scratched out in RED ink.

Have new trenches or pits been excavated in your area during the reporting period? Yes No

If "yes" above, what are their approximate sizes or dimensions? (In metres) N/A

1. Trench / pit No.1: Size / dimensions:	<input type="checkbox"/> 8 Cubic metres or	<input type="checkbox"/> 2Length x 2	<input type="checkbox"/> breadth x 2	<input type="checkbox"/> depth
2. Trench / pit No.2: Size / dimensions:	<input type="checkbox"/> 8 Cubic metres or	<input type="checkbox"/> 2Length x 2	<input type="checkbox"/> breadth x 2	<input type="checkbox"/> depth
3. Trench / pit No.3: Size / dimensions:	<input type="checkbox"/> 8 Cubic metres or	<input type="checkbox"/> 2Length x 2	<input type="checkbox"/> breadth x 2	<input type="checkbox"/> depth
4. Trench / pit No.4: Size / dimensions:	<input type="checkbox"/> 8 Cubic metres or	<input type="checkbox"/> 2Length x 2	<input type="checkbox"/> breadth x 2	<input type="checkbox"/> depth
5. Trench / pit No.5: Size / dimensions:	<input type="checkbox"/> 8 Cubic metres or	<input type="checkbox"/> 2Length x 2	<input type="checkbox"/> breadth x 2	<input type="checkbox"/> depth
6. Trench / pit No.6: Size / dimensions:	<input type="checkbox"/> 8 Cubic metres or	<input type="checkbox"/> 2Length x 2	<input type="checkbox"/> breadth x 2	<input type="checkbox"/> depth
7. Trench / pit No.7: Size / dimensions:	<input type="checkbox"/> 8 Cubic metres or	<input type="checkbox"/> 2Length x 2	<input type="checkbox"/> breadth x 2	<input type="checkbox"/> depth
8. Trench / pit No.8: Size / dimensions:	<input type="checkbox"/> 8 Cubic metres or	<input type="checkbox"/> 2Length x 2	<input type="checkbox"/> breadth x 2	<input type="checkbox"/> depth

.....

Were any holes/trenches rehabilitated during this period of reporting?
 Yes (show on map) No

F. INFRASTRUCTURAL DEVELOPMENT

Infrastructural Developments means any offices, houses, sheds, cement slabs, or other buildings or foundations for buildings. It also includes storage tanks (for water, fuel or other substances), temporary housing such as mobile homes & caravans, prefab units and tented camps. Please report on new construction or additions to buildings you reported on, in your previous Environmental Report.

Was any NEW infrastructure established during this period? Yes No

If "yes" above, is this infrastructure: Permanent Temporary A combination

Describe infrastructure by ticking boxes: Offices Housing Sheds
 Prefab structure Garages Storage tanks
 Cement slabs Foundations Other

If "other", please specify:

G. BOREHOLES, SAMPLE HOLES OR OTHER DRILLING

This category includes holes drilled for water, for taking mineral or other samples, for setting explosives, for testing mineral quality, or any other purpose.

Were any holes drilled during this period? Yes No

If "yes", for which purpose were they drilled? Water depth Quantity
 Sampling depth Quantity
 Explosives depth Quantity

If "other", please specify: Depth Quantity

H. WATER

Your estimated monthly water consumption during this period was: NA

Water was obtained from: River Borehole Dam Water Affairs Other

Please estimate the percentage of water used for the following activities during this period:

Human consumption	100%
Toilets	<input type="checkbox"/> <input type="checkbox"/> %
Prospecting activities	<input type="checkbox"/> <input type="checkbox"/> %
Washing vehicles & equipment	<input type="checkbox"/> <input type="checkbox"/> %
Dust control	<input type="checkbox"/> <input type="checkbox"/> %
Building activities	<input type="checkbox"/> <input type="checkbox"/> %
Gardens	<input type="checkbox"/> <input type="checkbox"/> %
Recreation	<input type="checkbox"/> <input type="checkbox"/> %
Other (locals livestock)	<input type="checkbox"/> <input type="checkbox"/> %

Were there any accidents which caused a loss of water? Yes No

If "yes", please give details:

I. PROTECTION OF FAUNA AND FLORA

Please answer the following questions by ticking the appropriate boxes:

Question:	Yes	No	Unsure
Were any mammals, birds, reptiles or fish killed or wounded (Purposefully or accidentally) in the prospecting site or area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Were any plants (excluding grasses) picked, damaged or removed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Was there any wood collecting in the area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

J. RELATIONS WITH NEIGHBOURS, OFFICIALS AND/OR THE GENERAL PUBLIC

Were there any conflicts with neighbours, land-owners, Government Officials or the public during this period? Yes No

If "yes" above, what was the nature of these conflicts? (Tick boxes to provide answers)

People entered the prospecting area without permission or prior arrangement	<input type="checkbox"/>
Complaints about reduced access to water or other resources	<input type="checkbox"/>
Complaints about danger posed to livestock or wildlife	<input type="checkbox"/>
Allegations about stock-theft or poaching	<input type="checkbox"/>
Complaints about vehicle or equipment movement on access roads / tracks	<input type="checkbox"/>
Complaints about litter or other types of pollution (eg. Noise, dust, etc.)	<input type="checkbox"/>
Complaints about the activities / actions of company staff	<input type="checkbox"/>
Allegations that the Company was not adhering to contracts / agreements	<input type="checkbox"/>
Allegations that the Company damaged property or installations	<input type="checkbox"/>
Allegations that gates were left open or unlocked	<input type="checkbox"/>
Other (specify).....	<input type="checkbox"/>

If conflicts arose, indicate how these were resolved? (Tick boxes)

Verbal agreement after discussions.....	<input type="checkbox"/>
Written agreement by special contract.....	<input type="checkbox"/>
Instructions to company staff to avoid conflicts.....	<input type="checkbox"/>
Company rectified its mistakes and undertook to avoid future wrong-doing.....	<input type="checkbox"/>
Court action or other third party arbitration.....	<input type="checkbox"/>
Other (specify)	<input type="checkbox"/>
The conflicts remain unsolved.....	<input type="checkbox"/>

Any other comments or information:

- The company conducts its exploration activities from the nearby town of Opuwo.
- Due to depressed cobalt prices and the COVID-19 pandemic, little to no field exploration took place on the tenements.
- Studies undertaken during this period were non-intrusive, predominantly metallurgical and mineralogical studies (processing laboratory work), and environmental work towards the company's scoping studies.

I declare that the information provided in this Environmental Report is, to the best of my knowledge, accurate and correct.

Kaarina Ndalulilwa
 Kaarina Ndalulilwa
 Chief Geologist

Gecko Cobalt Mining (Pty) Ltd.

14 January 2021

.....

Prospecting Company

Date

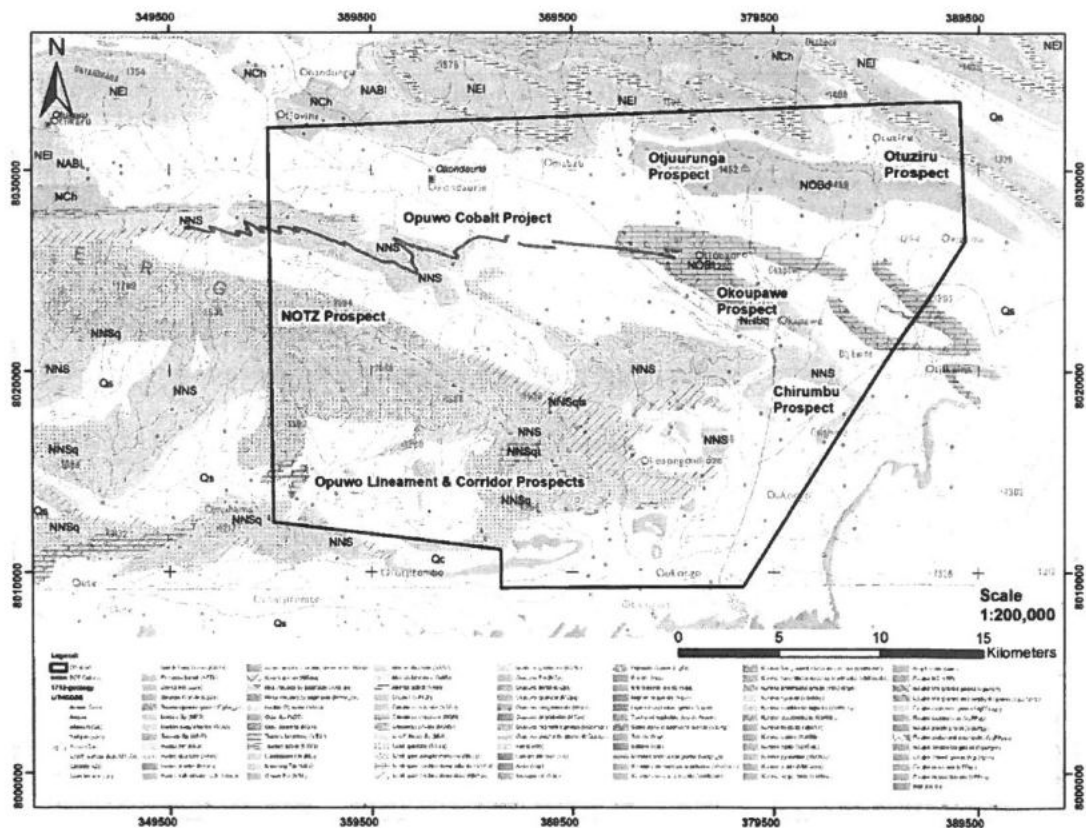


Figure 1: Geological map of EPL4346, located north of the town of Opuwo: Stratigraphy and prospecting projects.

ENVIRONMENTAL REPORT (ER)

(Prospecting Companies)

EPL 4346

INSTRUCTIONS:

1. An Environmental Report shall be submitted to the Ministry of Environment and Tourism (MET) biannually. Jan to Jun and Jun to December: Please indicate:

January – June 2021

2. This form shall be the minimum reporting format. Prospecting Companies are expected to attach a map of their prospecting area to this report. Prospecting Companies are welcome to attach any other information they like, such as copies of new agreements, letters of explanation, aerial photographs, or anything else of interest.
3. The map shall be used to indicate the following:
 - * Areas where prospecting has taken place,
 - * Roads or tracks made and/or used,
 - * Houses and other infrastructure erected,
 - * Excavations or other scars which have been rehabilitated,
 - * Conflict areas, etc....
4. It is recommended (but not compulsory) that Prospecting Companies attach photographs to their report which visually illustrate the activities described in their report.
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6. All information contained in the Environmental Report shall be treated as Confidential.
7. The Prospecting Company shall ensure that all the information recorded in the Environmental Report is, to their best knowledge, accurate and correct.

Completed Environmental Reports should be sent to:

**The Permanent Secretary
Ministry of Environment and Tourism
Private Bag 13306
Windhoek**

For Attention: Mr. Theofilus Nghitila – Environmental Commissioner

A. COMPANY DETAILS AND REPORTING PERIOD:

Name of Company: Gecko Cobalt Mining (Pty) Ltd.

Address of Company: P.O. Box 81307, Olympia, Windhoek, Namibia.

Tel: 061-225826 Fax number: NA E-mail: Kaarina.Ndalulilwa@gecko.na

Name of person compiling report: Kaarina Ndalulilwa

Reference number (s) of prospecting area / block / license: EPL no. 4346

Geographical location of area / block / license: Opuwo, Kunene Region

This report is for the period of: (tick the relevant box and fill in the year)

January to June 2021

Other (please specify)

B. POLLUTION AND WASTE

Has all domestic refuse (eg. Household waste, bottles, tins, paper, plastic, etc) Been removed from the prospecting area? Yes No

If "yes" above, specify the site where such refuse has been deposited: Opuwo Waste Site

How often is refuse removed to the site mentioned above? every week
every two weeks
every three weeks
once a month
at irregular intervals

If refuse has not been removed, where has it been dumped? N/A

As far as litter is concerned, would you describe your prospecting area as: Very clean Reasonably clean Filthy

If your prospecting area is littered with refuse, please indicate how you intend cleaning it up:

N/A

Are toilets provided for all staff employed by the prospecting company: Yes No

If "yes" above, are they: Flush toilets Chemical Toilets Pit Latrines Other

If chemical toilets are used, how are old chemicals disposed of: N/A

Deposited in evaporation ponds Deposited in a municipal refuse dump
Buried on site Other (specify)

C. VEHICLES AND EARTHMOVING EQUIPMENT

Indicate the types and number of vehicles and earthmoving equipment used on site during the reporting period (tick box in front of the category of vehicles used and then fill in the next boxes to indicate numbers)

<input checked="" type="checkbox"/> Pick-up trucks (“bakkies”), either 2x4 or 4x4	How many in use	1
<input type="checkbox"/> Lorries / trucks between 5 - 10 ton capacity	How many in use	<input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/> Lorries / trucks larger than 10 ton capacity	How many in use	<input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/> Bulldozer of any size	How many in use	<input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/> Road Grader of any size	How many in use	<input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/> Front-end loader of any size	How many in use	<input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/> Drilling machine of any type	How many in use	<input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/> Other (specify)	How many in uses	<input type="checkbox"/> <input type="checkbox"/>

D. ROADS AND TRACKS

(In addition to ticking the following boxes, please draw roads/tracks made on an accompanying map in blue ink. Roads which have been rehabilitated (ie. restored to their natural state) can be scratched out in red pen.

Have new roads or tracks been made during the reporting period? Yes No

If “yes” above how long are these (in kilometres)? Km

If “yes” above are these still in use? Yes No

If “no” above have any of these roads or tracks been rehabilitated? Yes No

If “yes” above, how have you done such rehabilitation?
 Ripping Raking sweeping other (specify)

If road / track rehabilitation has taken place, how many kilometres of roads or tracks have been rehabilitated? Kilometres

E. TRENCHES OR PITS: *If new trenches or pits were made in the site / area during the reporting period, please indicate these by ticking the appropriate boxes and by means of illustrating them on the same map described above. New pits or trenches made should be numbered and drawn as a CIRCLE in blue ink, while pits or trenches which were rehabilitated during the reporting period should be scratched out in RED ink.*

Have new trenches or pits been excavated in your area during the reporting period?
 Yes No

If “yes” above, what are their approximate sizes or dimensions? (In metres) N/A

- Trench / pit No.1: Size / dimensions: 8 Cubic metres or 2Length x 2 breadth x 2 depth
- Trench / pit No.2: Size / dimensions: 8 Cubic metres or 2Length x 2 breadth x 2 depth
- Trench / pit No.3: Size / dimensions: 8 Cubic metres or 2Length x 2 breadth x 2 depth
- Trench / pit No.4: Size / dimensions: 8 Cubic metres or 2Length x 2 breadth x 2 depth
- Trench / pit No.5: Size / dimensions: 8 Cubic metres or 2Length x 2 breadth x 2 depth
- Trench / pit No.6: Size / dimensions: 8 Cubic metres or 2Length x 2 breadth x 2 depth
- Trench / pit No.7: Size / dimensions: 8 Cubic metres or 2Length x 2 breadth x 2 depth
- Trench / pit No.8: Size / dimensions: 8 Cubic metres or 2Length x 2 breadth x 2 depth

.....

Were any holes/trenches rehabilitated during this period of reporting?
 Yes (show on map) No

F. INFRASTRUCTURAL DEVELOPMENT

Infrastructural Developments means any offices, houses, sheds, cement slabs, or other buildings or foundations for buildings. It also includes storage tanks (for water, fuel or other substances), temporary housing such as mobile homes & caravans, prefab units and tented camps. Please report on new construction or additions to buildings you reported on, in your previous Environmental Report.

Was any NEW infrastructure established during this period? Yes No

If "yes" above, is this infrastructure: Permanent Temporary A combination

Describe infrastructure by ticking boxes: Offices Housing Sheds
 Prefab structure Garages Storage tanks
 Cement slabs Foundations Other

If "other", please specify:

G. BOREHOLES, SAMPLE HOLES OR OTHER DRILLING

This category includes holes drilled for water, for taking mineral or other samples, for setting explosives, for testing mineral quality, or any other purpose.

Were any holes drilled during this period? Yes No

If "yes", for which purpose were they drilled? Water depth Quantity
 Sampling depth Quantity
 Explosives depth Quantity

If "other", please specify: Depth Quantity

H. WATER

Your estimated monthly water consumption during this period was: NA

Water was obtained from: River Borehole Dam Water Affairs Other

Please estimate the percentage of water used for the following activities during this period:

Human consumption	100%
Toilets	<input type="checkbox"/> <input type="checkbox"/> %
Prospecting activities	<input type="checkbox"/> <input type="checkbox"/> %
Washing vehicles & equipment	<input type="checkbox"/> <input type="checkbox"/> %
Dust control	<input type="checkbox"/> <input type="checkbox"/> %
Building activities	<input type="checkbox"/> <input type="checkbox"/> %
Gardens	<input type="checkbox"/> <input type="checkbox"/> %
Recreation	<input type="checkbox"/> <input type="checkbox"/> %
Other (locals livestock)	<input type="checkbox"/> <input type="checkbox"/> %

Were there any accidents which caused a loss of water? Yes No

If "yes", please give details:

I. PROTECTION OF FAUNA AND FLORA

Please answer the following questions by ticking the appropriate boxes:

Question:	Yes	No	Unsure
Were any mammals, birds, reptiles or fish killed or wounded (Purposefully or accidentally) in the prospecting site or area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Were any plants (excluding grasses) picked, damaged or removed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Was there any wood collecting in the area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

J. RELATIONS WITH NEIGHBOURS, OFFICIALS AND/OR THE GENERAL PUBLIC

Were there any conflicts with neighbours, land-owners, Government Officials or the public during this period? Yes No

If "yes" above, what was the nature of these conflicts? (Tick boxes to provide answers)

People entered the prospecting area without permission or prior arrangement	<input type="checkbox"/>
Complaints about reduced access to water or other resources	<input type="checkbox"/>
Complaints about danger posed to livestock or wildlife	<input type="checkbox"/>
Allegations about stock-theft or poaching	<input type="checkbox"/>
Complaints about vehicle or equipment movement on access roads / tracks	<input type="checkbox"/>
Complaints about litter or other types of pollution (eg. Noise, dust, etc.)	<input type="checkbox"/>
Complaints about the activities / actions of company staff	<input type="checkbox"/>
Allegations that the Company was not adhering to contracts / agreements	<input type="checkbox"/>
Allegations that the Company damaged property or installations	<input type="checkbox"/>
Allegations that gates were left open or unlocked	<input type="checkbox"/>
Other (specify).....	<input type="checkbox"/>

If conflicts arose, indicate how these were resolved? (Tick boxes)

Verbal agreement after discussions.....	<input type="checkbox"/>
Written agreement by special contract.....	<input type="checkbox"/>
Instructions to company staff to avoid conflicts.....	<input type="checkbox"/>
Company rectified its mistakes and undertook to avoid future wrong-doing.....	<input type="checkbox"/>
Court action or other third party arbitration.....	<input type="checkbox"/>
Other (specify)	<input type="checkbox"/>
The conflicts remain unsolved.....	<input type="checkbox"/>

Any other comments or information:

- The company conducts its exploration activities from the nearby town of Opuwo.
- Due to depressed cobalt prices and the COVID-19 pandemic, little to no field exploration took place on the tenements.
- Studies undertaken during this period were non-intrusive, predominantly metallurgical and mineralogical studies (processing laboratory work), and environmental work towards the company's scoping studies.

I declare that the information provided in this Environmental Report is, to the best of my knowledge, accurate and correct.

.....
Kaarina Ndalulilwa
Chief Geologist

Gecko Cobalt Mining (Pty) Ltd.

13 July 2021

.....
Prospecting Company

.....
Date

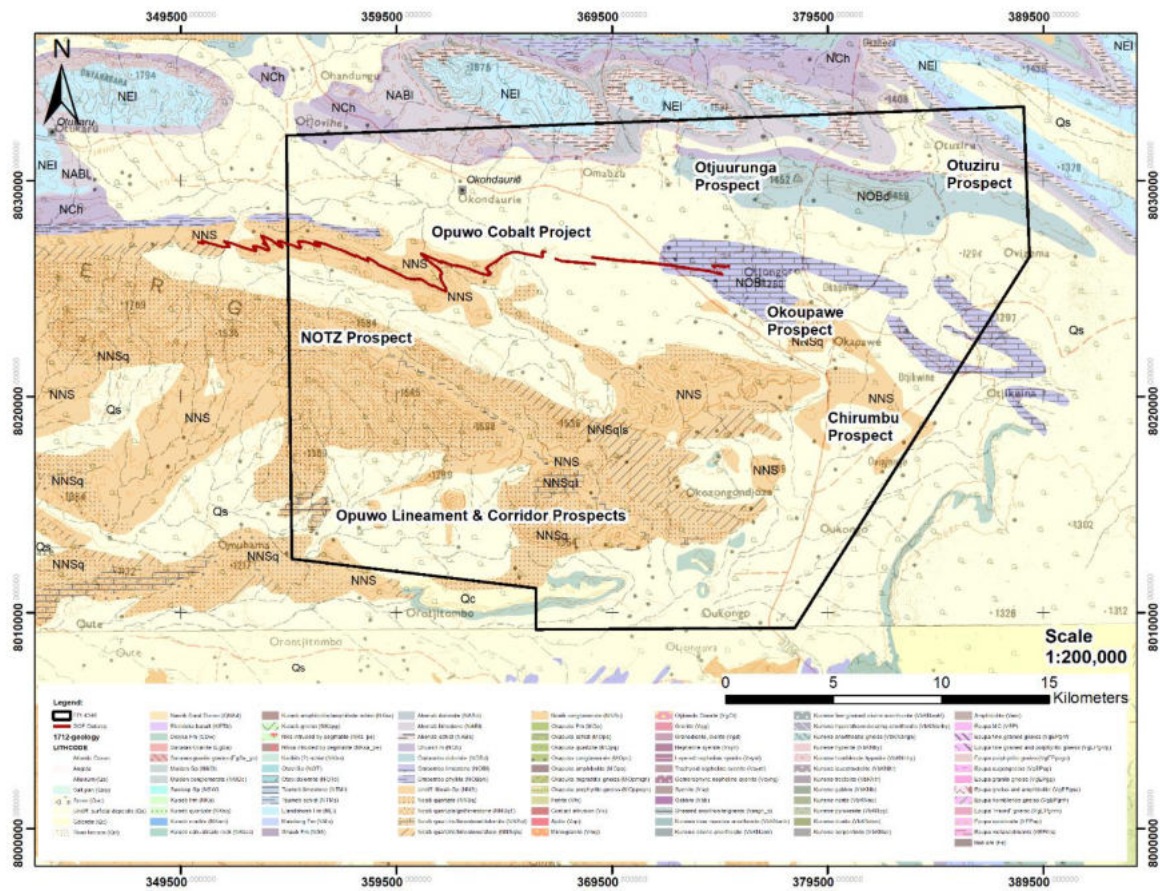


Figure 1: Geological map of EPL4346, located north of the town of Opuwo: Stratigraphy and prospecting projects.

ENVIRONMENTAL REPORT (ER)

(Prospecting Companies)

EPL 4346

INSTRUCTIONS:

1. An Environmental Report shall be submitted to the Ministry of Environment and Tourism (MET) biannually. Jan to Jun and Jun to December: Please indicate:

June to December 2021

2. This form shall be the minimum reporting format. Prospecting Companies are expected to attach a map of their prospecting area to this report. Prospecting Companies are welcome to attach any other information they like, such as copies of new agreements, letters of explanation, aerial photographs, or anything else of interest.
3. The map shall be used to indicate the following:
 - * Areas where prospecting has taken place,
 - * Roads or tracks made and/or used,
 - * Houses and other infrastructure erected,
 - * Excavations or other scars which have been rehabilitated,
 - * Conflict areas, etc....
4. It is recommended (but not compulsory) that Prospecting Companies attach photographs to their report which visually illustrate the activities described in their report.
5. Failure to submit an Environmental Report shall constitute a breach of the Environmental Contract, which could result in steps taken against the Prospecting Company.
6. All information contained in the Environmental Report shall be treated as Confidential.
7. The Prospecting Company shall ensure that all the information recorded in the Environmental Report is, to their best knowledge, accurate and correct.

Completed Environmental Reports should be sent to:

**The Permanent Secretary
Ministry of Environment and Tourism
Private Bag 13306
Windhoek**

For Attention: Mr. Theofilus Nghitila – Environmental Commissioner

A. COMPANY DETAILS AND REPORTING PERIOD:

Name of Company: Gecko Cobalt Mining (Pty) Ltd.

Address of Company: P.O. Box 81307, Olympia, Windhoek, Namibia.

Tel: 061-225826 Fax number: NA E-mail: Kaarina.Ndalulilwa@gecko.na

Name of person compiling report: Kaarina Ndalulilwa

Reference number (s) of prospecting area / block / license: EPL no. 4346

Geographical location of area / block / license: Opuwo, Kunene Region

This report is for the period of: (tick the relevant box and fill in the year)

June to December 2021

Other (please specify)

B. POLLUTION AND WASTE

Has all domestic refuse (eg. Household waste, bottles, tins, paper, plastic, etc)
Been removed from the prospecting area? Yes No

If "yes" above, specify the site where such refuse has been deposited: Opuwo Waste Site

How often is refuse removed to the site mentioned above?

every week	<input checked="" type="checkbox"/>
every two weeks	<input type="checkbox"/>
every three weeks	<input type="checkbox"/>
once a month	<input type="checkbox"/>
at irregular intervals	<input type="checkbox"/>

If refuse has not been removed, where has it been dumped? N/A

As far as litter is concerned, would you describe your prospecting area as: Very clean Reasonably clean Filthy

If your prospecting area is littered with refuse, please indicate how you intend cleaning it up:

N/A

Are toilets provided for all staff employed by the prospecting company: Yes No

If "yes" above, are they: Flush toilets Chemical Toilets Pit Latrines Other

If chemical toilets are used, how are old chemicals disposed of: N/A

Deposited in evaporation ponds	<input type="checkbox"/>	Deposited in a municipal refuse dump	<input type="checkbox"/>
Buried on site	<input type="checkbox"/>	Other (specify)	<input type="checkbox"/>

C. VEHICLES AND EARTHMOVING EQUIPMENT

Indicate the types and number of vehicles and earthmoving equipment used on site during the reporting period (tick box in front of the category of vehicles used and then fill in the next boxes to indicate numbers)

<input checked="" type="checkbox"/> Pick-up trucks (“bakkies”), either 2x4 or 4x4	How many in use	1
<input type="checkbox"/> Lorries / trucks between 5 - 10 ton capacity	How many in use	<input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/> Lorries / trucks larger than 10 ton capacity	How many in use	<input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/> Bulldozer of any size	How many in use	<input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/> Road Grader of any size	How many in use	<input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/> Front-end loader of any size	How many in use	<input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/> Drilling machine of any type	How many in use	<input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/> Other (specify)	How many in uses	<input type="checkbox"/> <input type="checkbox"/>

D. ROADS AND TRACKS

(In addition to ticking the following boxes, please draw roads/tracks made on an accompanying map in blue ink. Roads which have been rehabilitated (ie. restored to their natural state) can be scratched out in red pen.

Have new roads or tracks been made during the reporting period? Yes No

If “yes” above how long are these (in kilometres)? Km

If “yes” above are these still in use? Yes No

If “no” above have any of these roads or tracks been rehabilitated? Yes No

If “yes” above, how have you done such rehabilitation?
 Ripping Raking sweeping other (specify)

If road / track rehabilitation has taken place, how many kilometres of roads or tracks have been rehabilitated? Kilometres

E. TRENCHES OR PITS: *If new trenches or pits were made in the site / area during the reporting period, please indicate these by ticking the appropriate boxes and by means of illustrating them on the same map described above. New pits or trenches made should be numbered and drawn as a CIRCLE in blue ink, while pits or trenches which were rehabilitated during the reporting period should be scratched out in RED ink.*

Have new trenches or pits been excavated in your area during the reporting period?
 Yes No

If “yes” above, what are their approximate sizes or dimensions? (In metres) N/A

1. Trench / pit No.1: Size / dimensions: 8 Cubic metres or 2Length x 2 breadth x 2 depth

2. Trench / pit No.2: Size / dimensions: 8 Cubic metres or 2Length x 2 breadth x 2 depth

3. Trench / pit No.3: Size / dimensions: 8 Cubic metres or 2Length x 2 breadth x 2 depth

4. Trench / pit No.4: Size / dimensions: 8 Cubic metres or 2Length x 2 breadth x 2 depth

5. Trench / pit No.5: Size / dimensions: 8 Cubic metres or 2Length x 2 breadth x 2 depth

6. Trench / pit No.6: Size / dimensions: 8 Cubic metres or 2Length x 2 breadth x 2 depth

7. Trench / pit No.7: Size / dimensions: 8 Cubic metres or 2Length x 2 breadth x 2 depth

8. Trench / pit No.8: Size / dimensions: 8 Cubic metres or 2Length x 2 breadth x 2 depth

.....

Were any holes/trenches rehabilitated during this period of reporting?
 Yes (show on map) No

F. INFRASTRUCTURAL DEVELOPMENT

Infrastructural Developments means any offices, houses, sheds, cement slabs, or other buildings or foundations for buildings. It also includes storage tanks (for water, fuel or other substances), temporary housing such as mobile homes & caravans, prefab units and tented camps. Please report on new construction or additions to buildings you reported on, in your previous Environmental Report.

Was any NEW infrastructure established during this period? Yes No

If "yes" above, is this infrastructure: Permanent Temporary A combination

Describe infrastructure by ticking boxes: Offices Housing Sheds
 Prefab structure Garages Storage tanks
 Cement slabs Foundations Other

If "other", please specify:

G. BOREHOLES, SAMPLE HOLES OR OTHER DRILLING

This category includes holes drilled for water, for taking mineral or other samples, for setting explosives, for testing mineral quality, or any other purpose.

Were any holes drilled during this period? Yes No

If "yes", for which purpose were they drilled? Water depth Quantity
 Sampling depth Quantity
 Explosives depth Quantity

If "other", please specify: Depth Quantity

H. WATER

Your estimated monthly water consumption during this period was: NA

Water was obtained from: River Borehole Dam Water Affairs Other

Please estimate the percentage of water used for the following activities during this period:

Human consumption	100%	
Toilets	<input type="checkbox"/> <input type="checkbox"/> %	<div style="border: 1px solid black; padding: 5px;"> <p>Were there any accidents which caused a loss of water? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p> <p>If "yes", please give details: </p> </div>
Prospecting activities	<input type="checkbox"/> <input type="checkbox"/> %	
Washing vehicles & equipment	<input type="checkbox"/> <input type="checkbox"/> %	
Dust control	<input type="checkbox"/> <input type="checkbox"/> %	
Building activities	<input type="checkbox"/> <input type="checkbox"/> %	
Gardens	<input type="checkbox"/> <input type="checkbox"/> %	
Recreation	<input type="checkbox"/> <input type="checkbox"/> %	
Other (locals livestock)	<input type="checkbox"/> <input type="checkbox"/> %	

I. PROTECTION OF FAUNA AND FLORA

Please answer the following questions by ticking the appropriate boxes:

Question:	Yes	No	Unsure
Were any mammals, birds, reptiles or fish killed or wounded (Purposefully or accidentally) in the prospecting site or area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Were any plants (excluding grasses) picked, damaged or removed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Was there any wood collecting in the area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

J. RELATIONS WITH NEIGHBOURS, OFFICIALS AND/OR THE GENERAL PUBLIC

Were there any conflicts with neighbours, land-owners, Government Officials or the public during this period? Yes No

If "yes" above, what was the nature of these conflicts? (Tick boxes to provide answers)

People entered the prospecting area without permission or prior arrangement	<input type="checkbox"/>
Complaints about reduced access to water or other resources	<input type="checkbox"/>
Complaints about danger posed to livestock or wildlife	<input type="checkbox"/>
Allegations about stock-theft or poaching	<input type="checkbox"/>
Complaints about vehicle or equipment movement on access roads / tracks	<input type="checkbox"/>
Complaints about litter or other types of pollution (eg. Noise, dust, etc.)	<input type="checkbox"/>
Complaints about the activities / actions of company staff	<input type="checkbox"/>
Allegations that the Company was not adhering to contracts / agreements	<input type="checkbox"/>
Allegations that the Company damaged property or installations	<input type="checkbox"/>
Allegations that gates were left open or unlocked	<input type="checkbox"/>
Other (specify).....	<input type="checkbox"/>

If conflicts arose, indicate how these were resolved? (Tick boxes)

Verbal agreement after discussions.....	<input type="checkbox"/>
Written agreement by special contract.....	<input type="checkbox"/>
Instructions to company staff to avoid conflicts.....	<input type="checkbox"/>
Company rectified its mistakes and undertook to avoid future wrong-doing.....	<input type="checkbox"/>
Court action or other third party arbitration.....	<input type="checkbox"/>
Other (specify)	<input type="checkbox"/>
The conflicts remain unsolved.....	<input type="checkbox"/>

Any other comments or information:

- Due to depressed cobalt prices and the COVID-19 pandemic, little to no field exploration took place on the tenements.
 - The company conducts its exploration activities from the nearby town of Opuwo.
-

I declare that the information provided in this Environmental Report is, to the best of my knowledge, accurate and correct.

.....
Kaarina Ndalulilwa
Chief Geologist

Gecko Cobalt Mining (Pty) Ltd.

20 January 2022

.....
Prospecting Company

.....
Date

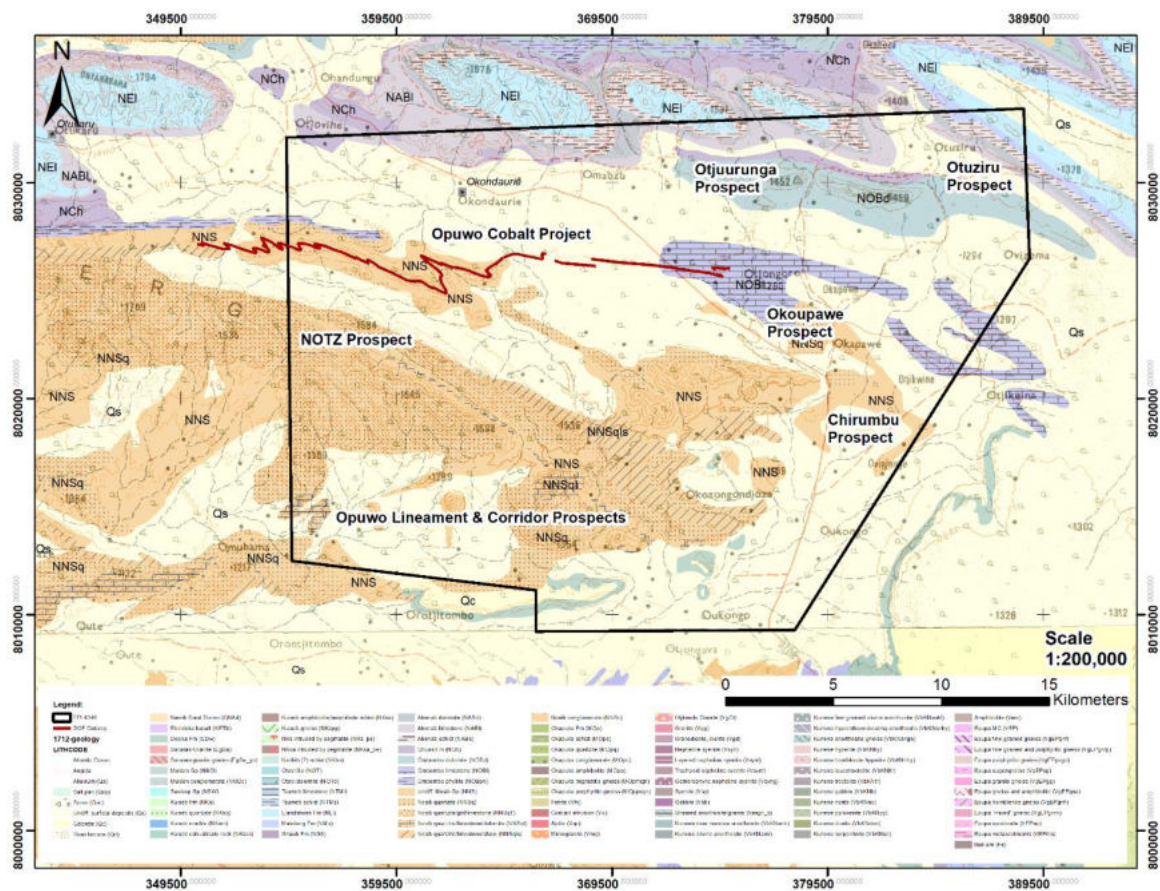


Figure 1: Geological map of EPL4346, located north of the town of Opuwo: Stratigraphy and prospecting projects.

ENVIRONMENTAL REPORT (ER)

(Prospecting Companies)

EPL 4346

INSTRUCTIONS:

1. An Environmental Report shall be submitted to the Ministry of Environment and Tourism (MET) biannually. Jan to Jun and Jun to December: Please indicate:

January to June 2022

2. This form shall be the minimum reporting format. Prospecting Companies are expected to attach a map of their prospecting area to this report. Prospecting Companies are welcome to attach any other information they like, such as copies of new agreements, letters of explanation, aerial photographs, or anything else of interest.
3. The map shall be used to indicate the following:
 - * Areas where prospecting has taken place,
 - * Roads or tracks made and/or used,
 - * Houses and other infrastructure erected,
 - * Excavations or other scars which have been rehabilitated,
 - * Conflict areas, etc....
4. It is recommended (but not compulsory) that Prospecting Companies attach photographs to their report which visually illustrate the activities described in their report.
5. Failure to submit an Environmental Report shall constitute a breach of the Environmental Contract, which could result in steps taken against the Prospecting Company.
6. All information contained in the Environmental Report shall be treated as Confidential.
7. The Prospecting Company shall ensure that all the information recorded in the Environmental Report is, to their best knowledge, accurate and correct.

Completed Environmental Reports should be sent to:

**The Permanent Secretary
Ministry of Environment and Tourism
Private Bag 13306
Windhoek**

For Attention: Mr. Theofilus Nghitila – Environmental Commissioner

A. COMPANY DETAILS AND REPORTING PERIOD:

Name of Company: Gecko Cobalt Mining (Pty) Ltd.

Address of Company: P.O. Box 81307, Olympia, Windhoek, Namibia.

Tel: 061-225826 Fax number: NA E-mail: Kaarina.Ndalulilwa@gecko.na

Name of person compiling report: Kaarina Ndalulilwa

Reference number (s) of prospecting area / block / license: EPL no. 4346

Geographical location of area / block / license: Opuwo, Kunene Region

This report is for the period of: (tick the relevant box and fill in the year)

January to June 2022

Other (please specify)

B. POLLUTION AND WASTE

Has all domestic refuse (eg. Household waste, bottles, tins, paper, plastic, etc)
Been removed from the prospecting area? Yes No

If "yes" above, specify the site where such refuse has been deposited: Opuwo Waste Site

How often is refuse removed to the site mentioned above?

every week	<input checked="" type="checkbox"/>
every two weeks	<input type="checkbox"/>
every three weeks	<input type="checkbox"/>
once a month	<input type="checkbox"/>
at irregular intervals	<input type="checkbox"/>

If refuse has not been removed, where has it been dumped? N/A

As far as litter is concerned, would you describe your prospecting area as: Very clean Reasonably clean Filthy

If your prospecting area is littered with refuse, please indicate how you intend cleaning it up:

N/A

Are toilets provided for all staff employed by the prospecting company: Yes No

If "yes" above, are they: Flush toilets Chemical Toilets Pit Latrines Other

If chemical toilets are used, how are old chemicals disposed of: N/A

Deposited in evaporation ponds	<input type="checkbox"/>	Deposited in a municipal refuse dump	<input type="checkbox"/>
Buried on site	<input type="checkbox"/>	Other (specify)	<input type="checkbox"/>

C. VEHICLES AND EARTHMOVING EQUIPMENT

Indicate the types and number of vehicles and earthmoving equipment used on site during the reporting period (tick box in front of the category of vehicles used and then fill in the next boxes to indicate numbers)

<input checked="" type="checkbox"/> Pick-up trucks (“bakkies”), either 2x4 or 4x4	How many in use	3
<input checked="" type="checkbox"/> Lorries / trucks between 5 - 10 ton capacity	How many in use	2
<input type="checkbox"/> Lorries / trucks larger than 10 ton capacity	How many in use	<input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/> Bulldozer of any size	How many in use	<input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/> Road Grader of any size	How many in use	<input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/> Front-end loader of any size	How many in use	<input type="checkbox"/> <input type="checkbox"/>
<input checked="" type="checkbox"/> Drilling machine of any type	How many in use	1
<input type="checkbox"/> Other (specify)	How many in uses	<input type="checkbox"/> <input type="checkbox"/>

D. ROADS AND TRACKS

(In addition to ticking the following boxes, please draw roads/tracks made on an accompanying map in blue ink. Roads which have been rehabilitated (ie. restored to their natural state) can be scratched out in red pen.

Have new roads or tracks been made during the reporting period? Yes No

If “yes” above how long are these (in kilometres)? Km

If “yes” above are these still in use? Yes No

If “no” above have any of these roads or tracks been rehabilitated? Yes No

If “yes” above, how have you done such rehabilitation?
Ripping Raking sweeping other (specify)

.....

If road / track rehabilitation has taken place, how many kilometres of roads or tracks have been rehabilitated? Approximately 20 Kilometres

E. TRENCHES OR PITS: *If new trenches or pits were made in the site / area during the reporting period, please indicate these by ticking the appropriate boxes and by means of illustrating them on the same map described above. New pits or trenches made should be numbered and drawn as a CIRCLE in blue ink, while pits or trenches which were rehabilitated during the reporting period should be scratched out in RED ink.*

Have new trenches or pits been excavated in your area during the reporting period?
Yes No

If “yes” above, what are their approximate sizes or dimensions? (In metres) N/A

1. Trench / pit No.1: Size / dimensions: 8 Cubic metres or 2Length x 2 breadth x 2 depth
2. Trench / pit No.2: Size / dimensions: 8 Cubic metres or 2Length x 2 breadth x 2 depth
3. Trench / pit No.3: Size / dimensions: 8 Cubic metres or 2Length x 2 breadth x 2 depth
4. Trench / pit No.4: Size / dimensions: 8 Cubic metres or 2Length x 2 breadth x 2 depth
5. Trench / pit No.5: Size / dimensions: 8 Cubic metres or 2Length x 2 breadth x 2 depth
6. Trench / pit No.6: Size / dimensions: 8 Cubic metres or 2Length x 2 breadth x 2 depth
7. Trench / pit No.7: Size / dimensions: 8 Cubic metres or 2Length x 2 breadth x 2 depth
8. Trench / pit No.8: Size / dimensions: 8 Cubic metres or 2Length x 2 breadth x 2 depth

.....

Were any holes/trenches rehabilitated during this period of reporting?
 Yes (show on map) No

F. INFRASTRUCTURAL DEVELOPMENT

Infrastructural Developments means any offices, houses, sheds, cement slabs, or other buildings or foundations for buildings. It also includes storage tanks (for water, fuel or other substances), temporary housing such as mobile homes & caravans, prefab units and tented camps. Please report on new construction or additions to buildings you reported on, in your previous Environmental Report.

Was any NEW infrastructure established during this period? Yes No
 If "yes" above, is this infrastructure: Permanent Temporary A combination
 Describe infrastructure by ticking boxes: Offices Housing Sheds
 Prefab structure Garages Storage tanks
 Cement slabs Foundations Other
 If "other", please specify: Tented Campsite

G. BOREHOLES, SAMPLE HOLES OR OTHER DRILLING

This category includes holes drilled for water, for taking mineral or other samples, for setting explosives, for testing mineral quality, or any other purpose.

Were any holes drilled during this period? Yes No
 If "yes", for which purpose were they drilled? Water depth Quantity
 Sampling depth: 810.90m Quantity: 7
 Explosives depth Quantity
 If "other", please specify: Depth Quantity

H. WATER

Your estimated monthly water consumption during this period was: 35,000 litres

Water was obtained from: River Borehole Dam Water Affairs Other

Please estimate the percentage of water used for the following activities during this period:

Human consumption	13%
Toilets	5%
Prospecting activities	80%
Washing vehicles & equipment	2%
Dust control	<input type="checkbox"/> <input type="checkbox"/> %
Building activities	<input type="checkbox"/> <input type="checkbox"/> %
Gardens	<input type="checkbox"/> <input type="checkbox"/> %
Recreation	<input type="checkbox"/> <input type="checkbox"/> %
Other (locals livestock)	<input type="checkbox"/> <input type="checkbox"/> %

Were there any accidents which caused a loss of water? Yes No

If "yes", please give details:

I. PROTECTION OF FAUNA AND FLORA

Please answer the following questions by ticking the appropriate boxes:

Question:	Yes	No	Unsure
Were any mammals, birds, reptiles or fish killed or wounded (Purposefully or accidentally) in the prospecting site or area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Were any plants (excluding grasses) picked, damaged or removed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Was there any wood collecting in the area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

J. RELATIONS WITH NEIGHBOURS, OFFICIALS AND/OR THE GENERAL PUBLIC

Were there any conflicts with neighbours, land-owners, Government Officials or the public during this period? Yes No

If "yes" above, what was the nature of these conflicts? (Tick boxes to provide answers)

People entered the prospecting area without permission or prior arrangement	<input type="checkbox"/>
Complaints about reduced access to water or other resources	<input type="checkbox"/>
Complaints about danger posed to livestock or wildlife	<input checked="" type="checkbox"/>
Allegations about stock-theft or poaching	<input type="checkbox"/>
Complaints about vehicle or equipment movement on access roads / tracks	<input checked="" type="checkbox"/>
Complaints about litter or other types of pollution (eg. Noise, dust, etc.)	<input type="checkbox"/>
Complaints about the activities / actions of company staff	<input type="checkbox"/>
Allegations that the Company was not adhering to contracts / agreements	<input type="checkbox"/>
Allegations that the Company damaged property or installations	<input type="checkbox"/>
Allegations that gates were left open or unlocked	<input type="checkbox"/>
Other (specify): Employment	<input type="checkbox"/>

If conflicts arose, indicate how these were resolved? (Tick boxes)

Verbal agreement after discussions.....	<input checked="" type="checkbox"/>
Written agreement by special contract.....	<input type="checkbox"/>
Instructions to company staff to avoid conflicts.....	<input type="checkbox"/>
Company rectified its mistakes and undertook to avoid future wrong-doing.....	<input type="checkbox"/>
Court action or other third party arbitration.....	<input type="checkbox"/>
Other (specify)	<input type="checkbox"/>
The conflicts remain unsolved.....	<input type="checkbox"/>

Any other comments or information:

- NA

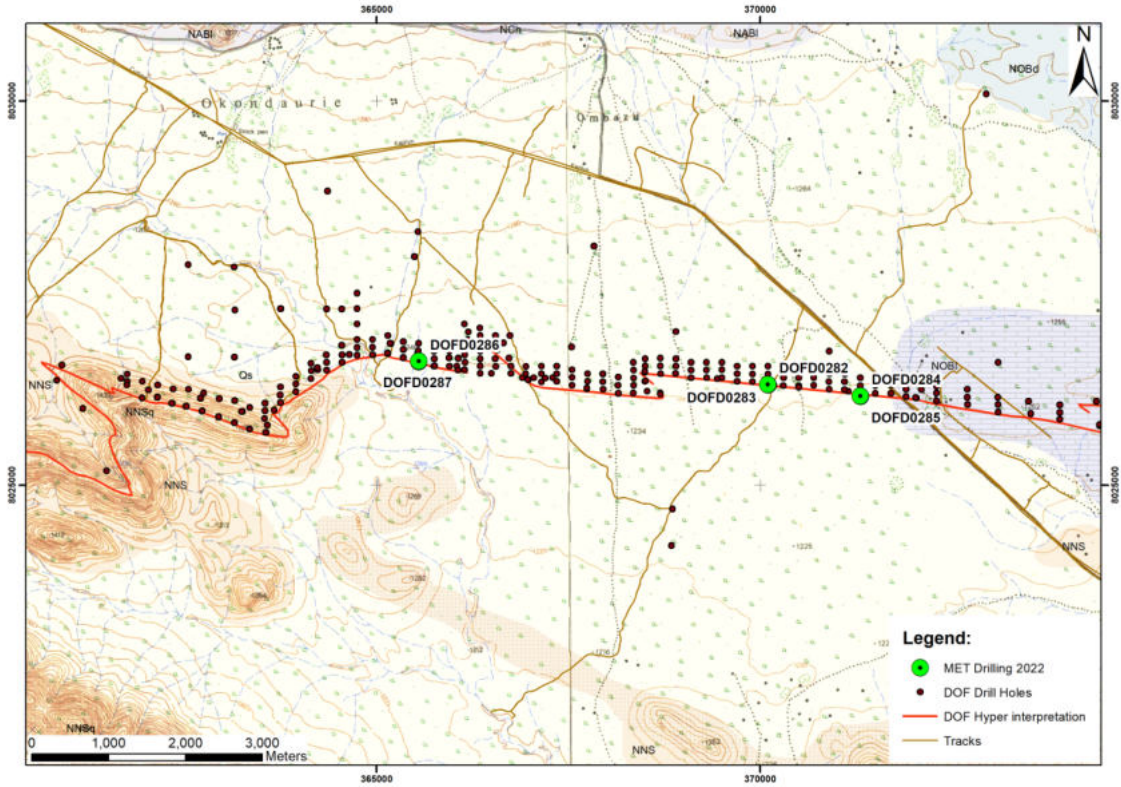



Figure 1: Drilling of the Dolostone Ore Formation (DOF) on EPL 4346, showing the 2022 metallurgical boreholes completed in the first half of 2022 in green.

I declare that the information provided in this Environmental Report is, to the best of my knowledge, accurate and correct.



Kaarina Ndalulilwa
Chief Geologist

Gecko Cobalt Mining (Pty) Ltd.

Prospecting Company

14 July 2022

Date

ENVIRONMENTAL REPORT (ER)

(Prospecting Companies)

EPL 4346

INSTRUCTIONS:

1. An Environmental Report shall be submitted to the Ministry of Environment and Tourism (MET) biannually. Jan to Jun and Jun to December: Please indicate:

July to December 2022

2. This form shall be the minimum reporting format. Prospecting Companies are expected to attach a map of their prospecting area to this report. Prospecting Companies are welcome to attach any other information they like, such as copies of new agreements, letters of explanation, aerial photographs, or anything else of interest.
3. The map shall be used to indicate the following:
 - * Areas where prospecting has taken place,
 - * Roads or tracks made and/or used,
 - * Houses and other infrastructure erected,
 - * Excavations or other scars which have been rehabilitated,
 - * Conflict areas, etc....
4. It is recommended (but not compulsory) that Prospecting Companies attach photographs to their report which visually illustrate the activities described in their report.
5. Failure to submit an Environmental Report shall constitute a breach of the Environmental Contract, which could result in steps taken against the Prospecting Company.
6. All information contained in the Environmental Report shall be treated as Confidential.
7. The Prospecting Company shall ensure that all the information recorded in the Environmental Report is, to their best knowledge, accurate and correct.

Completed Environmental Reports should be sent to:

**The Environmental Commissioner
Ministry of Environment and Tourism
Private Bag 13306
Windhoek**

For Attention: Mr. Timoteus Mufeti – Environmental Commissioner

A. COMPANY DETAILS AND REPORTING PERIOD:

Name of Company: **Opuwo Cobalt Mining (Pty) Ltd previously known as Gecko Cobalt Mining (Pty) Ltd.**

Address of Company: **P.O. Box 81307, Olympia, Windhoek, Namibia.**

Tel: **061-225826** Fax number: **NA** E-mail: **oliver@gecko.na**

Name of person compiling report: **Lovisa Amwele, Geokey CC**

Reference number (s) of prospecting area / block / license: **EPL no. 4346**

Geographical location of area / block / license: **Opuwo, Kunene Region**

This report is for the period of: (tick the relevant box and fill in the year)

July to December 2022

Other (please specify)

B. POLLUTION AND WASTE

Has all domestic refuse (eg. Household waste, bottles, tins, paper, plastic, etc) Been removed from the prospecting area? Yes No

If "yes" above, specify the site where such refuse has been deposited: **Opuwo Waste Site**

How often is refuse removed to the site mentioned above? every week
every two weeks
every three weeks
once a month
at irregular intervals

If refuse has not been removed, where has it been dumped? **Opuwo dumpsite/Burnt.**

As far as litter is concerned, would you describe your prospecting area as: Very clean Reasonably clean Filthy

If your prospecting area is littered with refuse, please indicate how you intend cleaning it up: **N/A**

Are toilets provided for all staff employed by the prospecting company: Yes No

If "yes" above, are they: Flush toilets Chemical Toilets Pit Latrines Other

If chemical toilets are used, how are old chemicals disposed of: **N/A**
Deposited in evaporation ponds Deposited in a municipal refuse dump
Buried on site Other (specify)

C. VEHICLES AND EARTHMOVING EQUIPMENT

Indicate the types and number of vehicles and earthmoving equipment used on site during the reporting period (tick box in front of the category of vehicles used and then fill in the next boxes to indicate numbers)

No exploration was conducted on the ground during the reporting period

<input type="checkbox"/> Pick-up trucks (“bakkies”), either 2x4 or 4x4	How many in use	
<input type="checkbox"/> Lorries / trucks between 5 - 10 ton capacity	How many in use	
<input type="checkbox"/> Lorries / trucks larger than 10 ton capacity	How many in use	<input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/> Bulldozer of any size	How many in use	<input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/> Road Grader of any size	How many in use	<input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/> Front-end loader of any size	How many in use	<input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/> Drilling machine of any type	How many in use	1
<input type="checkbox"/> Other (specify)	How many in uses	<input type="checkbox"/> <input type="checkbox"/>

D. ROADS AND TRACKS

(In addition to ticking the following boxes, please draw roads/tracks made on an accompanying map in blue ink. Roads which have been rehabilitated (ie. restored to their natural state) can be scratched out in red pen.

Have new roads or tracks been made during the reporting period? Yes No

If “yes” above how long are these (in kilometres)? Km

If “yes” above are these still in use? Yes No

If “no” above have any of these roads or tracks been rehabilitated? Yes No

If “yes” above, how have you done such rehabilitation?
Ripping Raking sweeping other (specify)

.....

If road / track rehabilitation has taken place, how many kilometres of roads or tracks have been rehabilitated?

E. TRENCHES OR PITS: *If new trenches or pits were made in the site / area during the reporting period, please indicate these by ticking the appropriate boxes and by means of illustrating them on the same map described above. New pits or trenches made should be numbered and drawn as a CIRCLE in blue ink, while pits or trenches which were rehabilitated during the reporting period should be scratched out in RED ink.*

Have new trenches or pits been excavated in your area during the reporting period?
Yes No

If “yes” above, what are their approximate sizes or dimensions? (In metres) N/A

1. Trench / pit No.1: Size / dimensions: 8 Cubic metres or 2Length x 2 breadth x 2 depth
2. Trench / pit No.2: Size / dimensions: 8 Cubic metres or 2Length x 2 breadth x 2 depth
3. Trench / pit No.3: Size / dimensions: 8 Cubic metres or 2Length x 2 breadth x 2 depth
4. Trench / pit No.4: Size / dimensions: 8 Cubic metres or 2Length x 2 breadth x 2 depth
5. Trench / pit No.5: Size / dimensions: 8 Cubic metres or 2Length x 2 breadth x 2 depth
6. Trench / pit No.6: Size / dimensions: 8 Cubic metres or 2Length x 2 breadth x 2 depth
7. Trench / pit No.7: Size / dimensions: 8 Cubic metres or 2Length x 2 breadth x 2 depth
8. Trench / pit No.8: Size / dimensions: 8 Cubic metres or 2Length x 2 breadth x 2 depth

.....

Were any holes/trenches rehabilitated during this period of reporting?
 Yes (show on map) No

F. INFRASTRUCTURAL DEVELOPMENT

Infrastructural Developments means any offices, houses, sheds, cement slabs, or other buildings or foundations for buildings. It also includes storage tanks (for water, fuel or other substances), temporary housing such as mobile homes & caravans, prefab units and tented camps. Please report on new construction or additions to buildings you reported on, in your previous Environmental Report.

Was any NEW infrastructure established during this period? Yes No

If "yes" above, is this infrastructure: Permanent Temporary A combination

Describe infrastructure by ticking boxes: Offices Housing Sheds
 Prefab structure Garages Storage tanks
 Cement slabs Foundations Other

If "other", please specify:

G. BOREHOLES, SAMPLE HOLES OR OTHER DRILLING

This category includes holes drilled for water, for taking mineral or other samples, for setting explosives, for testing mineral quality, or any other purpose.

Were any holes drilled during this period? Yes No

If "yes", for which purpose were they drilled? Water depth Quantity
 Sampling depth:
 Explosives depth Quantity

If "other", please specify: Depth Quantity

H. WATER

Your estimated monthly water consumption during this period was: **N/A**

Water was obtained from: River Borehole Dam Water Affairs Other

Please estimate the percentage of water used for the following activities during this period:

Human consumption
 Toilets
 Prospecting activities
 Washing vehicles & equipment
 Dust control %
 Building activities %
 Gardens %
 Recreation %
 Other (locals livestock) %

Were there any accidents which caused a loss of water? Yes No

If "yes", please give details:

I. PROTECTION OF FAUNA AND FLORA

Please answer the following questions by ticking the appropriate boxes:

Question:	Yes	No	Unsure
Were any mammals, birds, reptiles or fish killed or wounded (Purposefully or accidentally) in the prospecting site or area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Were any plants (excluding grasses) picked, damaged or removed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Was there any wood collecting in the area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

J. RELATIONS WITH NEIGHBOURS, OFFICIALS AND/OR THE GENERAL PUBLIC

Were there any conflicts with neighbours, land-owners, Government Officials or the public during this period? Yes No

If "yes" above, what was the nature of these conflicts? (Tick boxes to provide answers)

People entered the prospecting area without permission or prior arrangement	<input type="checkbox"/>
Complaints about reduced access to water or other resources	<input type="checkbox"/>
Complaints about danger posed to livestock or wildlife	<input type="checkbox"/>
Allegations about stock-theft or poaching	<input type="checkbox"/>
Complaints about vehicle or equipment movement on access roads / tracks	<input type="checkbox"/>
Complaints about litter or other types of pollution (eg. Noise, dust, etc.)	<input type="checkbox"/>
Complaints about the activities / actions of company staff	<input type="checkbox"/>
Allegations that the Company was not adhering to contracts / agreements	<input type="checkbox"/>
Allegations that the Company damaged property or installations	<input type="checkbox"/>
Allegations that gates were left open or unlocked	<input type="checkbox"/>
Other (specify): Employment	<input type="checkbox"/>

If conflicts arose, indicate how these were resolved? (Tick boxes)

Verbal agreement after discussions.....	<input type="checkbox"/>
Written agreement by special contract.....	<input type="checkbox"/>
Instructions to company staff to avoid conflicts.....	<input type="checkbox"/>
Company rectified its mistakes and undertook to avoid future wrong-doing.....	<input type="checkbox"/>
Court action or other third party arbitration.....	<input type="checkbox"/>
Other (specify)	<input type="checkbox"/>
The conflicts remain unsolved.....	<input type="checkbox"/>

Any other comments or information:

- The company is in the process of changing the name from Gecko Cobalt Mining(Pty) Ltd to Opuwo Cobalt Mining (Pty) Ltd. The application to effect these changes was submitted to the Ministry of Mines and Energy during this reporting period.

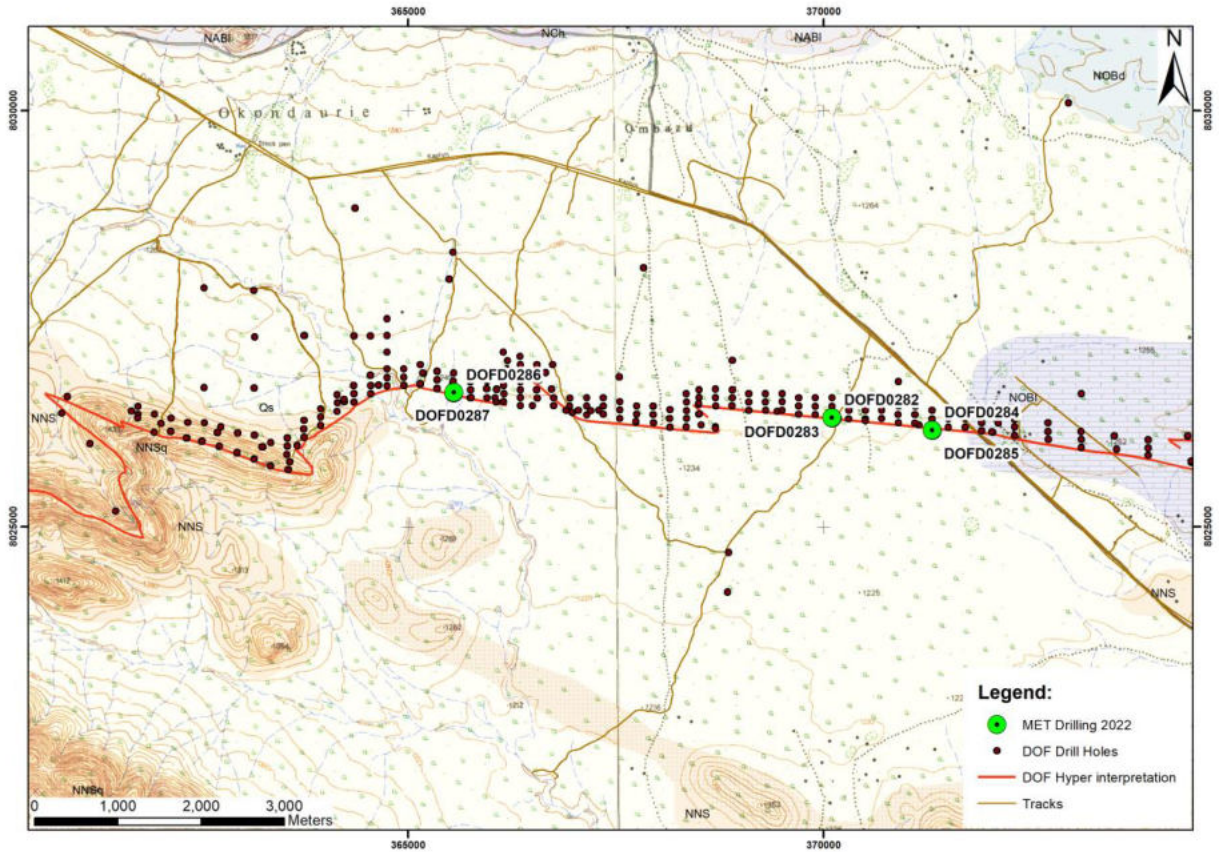


Figure 1: Drilling of the Dolostone Ore Formation (DOF) on EPL 4346, showing the 2022 metallurgical boreholes completed in the first half of 2022 in green.

I declare that the information provided in this Environmental Report is, to the best of my knowledge, accurate and correct.

.....
Oliver Krappmann
 Consultant, Geokey CC

Gecko Cobalt Mining (Pty) Ltd.

Prospecting Company

31 January 2023

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Date