

Appendix 10: Procedure for Conservation of Biodiversity Revision
No.:3.0Next
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Date:2017/04/05Effective
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1. Purpose

The purpose of this procedure is to:

- Ensure a safe relocation/removal of animals deemed to be encroaching mining operational areas, offices and residences; and
- Protect the Flora and Fauna on the property of Assmang Black Rock Mine Operations and to comply with Legislation

2. Scope

This procedure applies to all persons working for and on behalf of Assmang Black Rock Mine Operations, including visitors.

3. References

- 3.1. The Constitution of South Africa, 1996 (Act 108 of 1996);
- 3.2. Safety, Health and Environmental Incident Reporting Book;
- 3.3. Assmang Black Rock Mine Operation Environmental Management Programme;
- 3.4. National Environmental Management Act, (Act No.107 of 1998)
- 3.5. National Environmental Management: Biodiversity Act, 2004 (Act No. 10 of 2004)
- 3.6. National Forests Act, 1998 (Act No. 30 of 1998)
- 3.7. Assmang Black Rock Mine Operations Occupational Health, Safety and Environmental Policy.
- 3.8. African Rainbow Minerals Limited Corporate Standard on Biodiversity Management

4. Abbreviations & Definitions

4.1. Definitions

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Alien: organisms that do not occur naturally within the area but have been introduced either intentionally or unintentionally.

Biodiversity: also known as "Biological Diversity" means the variability among living organisms from all sources including, terrestrial, marine and other aquatic ecosystems and the ecological complexes of which they are part and also includes diversity within species, between species, and of ecosystems

Endangered: organisms in danger of extinction if causal factors continue to operate

Environment: the surroundings in which the mine operates, including air, water, land, natural resources, flora, fauna, humans and their interrelation

Fauna: means any of the animal life of any particular region or time

Flora: means any of the plant life occurring on particular region or time.

Indigenous: organisms occurring naturally within a defined area.

Red Data listed species: Organisms that fall into the *Extinct in the Wild, Critically endangered, Endangered, Vulnerable* categories of ecological status.



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4.2. Abbreviations

BRMO	: Black Rock Mine Operations
DENC	: Department of Environment and Nature Conservation
DAFF	: Department of Agriculture, Forestry and Fisheries
RACI	: Responsible, Accountable, Consulted, Informed
PPE	: Personal Protective Equipment
NEM: BA	: National Environmental Management: Biodiversity Act, 2004 (Act No. 10 of 2

5. Responsibilities

The table below depicts the roles and responsibility of all involved in the management of biodiversity within BRMO.

	RESPONSIBILITY & AUTHOURITY							
	Responsible, Accountable, Consulted, Informed (RACI) MATRIX							
Roles	SHERQ Manager	Environmental Specialist	Environmental Officers	Departmental Heads (HODs)	Section Heads/Foremen	Section Personnel	Contractors/	Game Farm Management
1. PROCEDURE					r	1		
Development & review of the procedure	A	R	С	I	I	I	I	I
Training of Section personnel on the procedure	Ι	А	R	С	С	I	I	I
Enforcement of the procedure		А	R	R	R	I	I	R
2. IMPLEMENTATION	2. IMPLEMENTATION							
Briefing employees on the procedure	Ι	A	R	Ι	R	Ι	I	Ι
Control and eradication of invasive species	I	A	R	I		Ι	Ι	I
Applying to the permits and licences to relevant Government Departments	A	R	R	С	С	I	I	I
Informing the Environmental Management Section of any proposed activity that may require a permit	I	С	С	A	R	I	I	I
Undertake biodiversity assessment on BRMO premises	А	R	С	Ι	I	I	I	I
Establish, implement and maintain Biodiversity Management Plan	A	R	R	С	С	I	I	I
Monitor and measure compliance with Biodiversity Management Plan	A	A	R	I	I	I	I	I

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ASSMANG MANGANESE BLACK ROCK MINE OPERATIONS

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	RESPONSIBILITY & AUTHOURITY Responsible, Accountable, Consulted, Informed (RACI) MATRIX							
Roles	SHERQ Manager	Environmental Specialist	Environmental Officers	Departmental Heads (HODs)	Section Heads/Foremen	Section Personnel	Contractors/	Game Farm Management
Reporting incidents relating to biodiversity management	I	С	R	I	R	R	R	R
Management of the Game Farm	I	С	С	Ι	I	I	I	R

6. General

This procedure covers the management of important aspects of biodiversity management in line with NEM: BA as it relates to BRMO. The procedure should only be used as an internal document relating to the day-today management projects and operations that may have negative or positive impacts on the biodiversity within BRMO premises and should not be seen as a document that intends to take precedence of applicable legislation, other requirements or directives from authorities. It should thus be updated so as to be in line with applicable legislation and requirements from authorities.

- 6.1. Appropriate personal protective equipment (PPE) must be worn at all times when pruning, cutting, exterminating, relocating or removing any fauna or flora.
- 6.2. Offsetting, relocation/removal of fauna and/or flora should be done by a person trained in that regard or by an outside company registered to remove or relocate such fauna or flora.
- 6.3. No person shall be in possession of any indigenous fauna or flora without the necessary permission from the Department of Environment and Nature Conservation (DENC).
- 6.4. Employees should contact the emergency number, 4555, in case of any dangerous animal or reptile encroaching the residence or working areas, and thereby posing risk to the residents and/or workers. A full description such as location, type of animals, etc. must be given.
- 6.5. Pests encroaching BRMO premises may also be removed by a registered Pest Control Company.
- 6.6. A risk assessment must be done prior to undertaking any offsetting, relocation, removal and/or extermination of any flora and/or fauna.
- 6.7. If a person is injured by an animal or reptile he/she must immediately be taken to the Clinic for treatment and an incident/accident reported.

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7. Description of Procedure

7.1. Protection of Fauna (Animals)

- 7.1.1 No person shall, without written permission of the Game Farm Management, enter the game farm.
- 7.1.2 No fauna may be exterminated unless it poses a safety risk to persons in the vicinity of the mine premises.
- 7.1.3 Relocation/removal of animals should only be done by a person trained in that regard or by an outside company registered to handle, remove or relocate such fauna.
- 7.1.4 The Game Farm Management must liaise with the DENC prior to culling of game
- 7.1.5 No person shall be in possession of any wildlife (NB: game animals) without the necessary permission from the DENC.
- 7.1.6 No one should be in possession of, destroy, or disturb any indigenous fauna and flora without necessary permit(s).
- 7.1.7 A minimum of two persons must be present during the relocation, removal or extermination of any fauna and must all wear appropriate PPE.

7.2. Protection of Flora (Plants)

- 7.2.1. Under no circumstances should any protected tree be pruned, destroyed or disturbed in any way without obtaining permission from the Department of Agriculture, Forestry and Fisheries (DAFF).
- 7.2.2. Any person transporting timber or other products of any protected tree must be in possession of a certified copy of a licence issued by DAFF for the trimming, disturbance or destroying of that particular protected tree.
- 7.2.3. Felling of any type of tree on the mine property, whether indigenous or alien, is prohibited unless, written permission has been granted by the Environmental Specialist or delegate (Refer to FORM: Request to Remove / Cut / Trim a Tree)
- 7.2.4. The Environmental Management Section should, as per the Alien Vegetation Management Plan, eradicate all invasive species within BRMO premises.

8. Records

No	Record	Ref.	Resp. Person	Storage	Retention Period	Disposition
1	Licences and permits issued to BRMO	N/A	Environmental Specialist	File	indefinite	N/A
2	3 rd Party Audit Reports	N/A	Environmental Specialist	File	Indefinite	N/A
3	Request to disturb trees	N/A	Environmental Specialist	File	Indefinite	N/A

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9. Appendix

A - Protected Floral Species Identified at Black Rock Mine Operations

- Faunal Red Data Listed Species Identified at Black Rock Mine Operations

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Appendix A

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a) Protected Floral Species Identified at Black Rock Mine Operations

Scientific Name	Common Name	Applicable Law
Acacia erioloba	Camel Thorn	National Forest Act, 1998 (Act No. 30 of 1998)
Acacia haemotoxylon	Grey Camel Thorn	National Forest Act, 1998 (Act No. 30 of 1998)
Ammocaris coranica	Karroo Lily	Schedule 4: Nature and Environmental Conservation Ordinance No. 19 of 1974
Harpogophytum procumbens	Devil's claw	Schedule 4: Nature and Environmental Conservation Ordinance No. 19 of 1974
Babiana hypogaea	Bobbejaanuintjie	Schedule 4: Nature and Environmental Conservation Ordinance No. 19 of 1974
Boophane disticha	Bushman's poison bulb	Schedule 4: Nature and Environmental Conservation Ordinance No. 19 of 1974

NB: None of the aforementioned floral species may be cut, removed, relocated, or destroyed without permits issued by the competent authority (DAFF & DENC).

b) Faunal Red Data Listed Species Identified at Black Rock Mine Operations

Scientific Name	Common Name	Red Data List Status
Miniopterus schreibersii	Schreibers Long-fingered Bat	Near Threatened
Rhinolophus fumigatus	Ruppell's Horseshoe Bat	Near Threatened
Rhinolophus clivosus	Geoffrey's Horseshoe Bat	Near Threatened
Rhinolophus darlingi	Darling's Horseshoe Bat	Near Threatened
Rhinolophus denti	Dent's Horseshoe Bat	Near Threatened
Gyps africanus	African White-backed Vulture	Near Threatened
Gyps coprotheres	Cape Griffon (Cape vulture)	Vulnerable
Coracias garrulus	European Roller	Near Threatened

NB: None of the aforementioned faunal species may be disturbed or exterminated without permits issued by the competent authority (DENC).