Black Mountain Mining

BMM-HSE-ENV-SOP-0043 Management of Domestic and Garden Refuse Dumps

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BMM-HSE-ENV-SOP-0025	BMM-HSE-ENV-SOP-0043	Standard Operating Procedure	Approved
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12.0	Internal (C3)	ISO 14001	Catharina Kotze

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6 July 2007	1-13-2025	2 Years	1-13-2027

Content Owner(s)
Anne-Marie Cloete (Senior Environmental Officer | BMM)

Content Reviewer(s)
Pieter David Venter (Environmental Manager | BMM)

Content Approver(s)
Catharina Kotze (Head of HSE | BMM)

❖ Change History

Modified Date	Version	Modified by	Description of change
13/01/2025	12.0	A. Cloete	Reviewed Document

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❖ Definitions and Abbreviations

Word / Phrase / Abbreviation	Definition
Garden Waste:	Waste that does not pose an immediate threat to man or the environment. It includes any form of vegetation (tree and grass cuttings, etc) that has been removed from gardens or areas on the mine property. This material is to be disposed of at the Garden Waste Refuse site only.
General / Domestic waste:	Waste that does not pose an immediate threat to man or to the environment. It may however, with decomposition, infiltration and percolation produce leachate with an unacceptable pollution potential. This waste is to be disposed of at the Domestic Waste Refuse site only. Examples include household wastes (papers, plastics, food residues etc), unrecyclable materials.
DWS	Department of Water and Sanitation
DMRE	Department of Mineral Resources and Energy
SAWIC:	South African Waste Information Centre Waste: An undesirable or superfluous by-product, emission, or residue of any process or activity, which has been discarded, accumulated or stored for the purpose of discarding or processing. It may be gaseous, liquid or solid or any combination thereof and may originate from any activity undertaken on the mine premises. This definition excludes sewage, mining and metallurgical wastes (e.g. slimes and waste rock).

1. POLICY STATEMENT

Black Mountain's Standard Procedures (SOP's) shall be written in a clear concise manner, communicated to all employees and applied accordingly.

2. OBJECTIVES

Management of Domestic & Garden Refuse Dumps (BMM-HSE-ENV-SOP-0043) procedure details how both the Domestic and Garden refuse dump sites should be operated and maintained. It further stipulates the requirements of annual reports that need Department of Water and Sanitation and monthly reporting to Department of Environmental Affairs-South African Waste Information Centre.

3. SCOPE

Management of Domestic & Garden Refuse Dumps (BMM-HSE-ENV-SOP-0043) procedure applies to activities undertaken at the Domestic and Garden Waste Site situated on Black Mountain Property.

4. PROCEDURE CONTENT

4.1 Permit Requirements

- Refuse dumps have permits from the DMRE
- Important conditions of these permits that need to be complied with are laid out below.

4.1.1 Permissible wastes:

- The Garden Refuse site may be used for the disposal of organic / plant material.
- The Domestic Refuse site may be used for the disposal of all domestic / household material, excluding those materials list in BMM-HSE-ENV-SPEC-0051.
- No medical waste and scheduled pharmaceutical products are disposed of in the general waste site.

4.1.2 Construction:

- New development within the site shall be communicated to the Regional Director at DMRE.
- All run off water arising from precipitation is to be diverted away from the site in an approved manner that complies with legislated requirements.
- The slope of the sides shall be constructed in a manner that eliminate or minimize erosion

4.1.3 Access Control and Notices:

- Weatherproof, durable and legible notices in the relevant official languages must be displayed at the entrance to the sites. These notices must prohibit unauthorised entry.
- The gates must be closed and locked at all times. Keys for dumping can be obtained from the operating contractor.

4.1.4 Operation of the General Waste Site:

- Waste accepted at the waste site is be screened for hazardous waste material.
- Sites must be clear of residual waste spilled during the loading, offloading of waste
- Prevent spreading of windblown waste i.e. Paper and plastic materials and disposing of non-permissible waste by covering waste once a week with soil.
- Unrecyclable material must be covered as often as possible and at least on a weekly basis within 10 days with a minimum of 150 millimeters of soil / sand.
- Movable fences must be used to control wind-blown waste.
- Burning of waste on the sites must take place under supervision and in a controlled manner, as specified in this procedure.
- No smouldering waste may not be left overnight or unattended.
- Refuse dump sites must be fenced to a minimum height of 1.8 meters with the gates being the same height.
- The height of the site above the ground must not exceed 1 meter.
- Roads are to be maintained and accessible to minimize/eliminate incidents while transporting waste.
- Reclamation of waste on the site may be undertaken, provided that records of the volumes and nature of materials reclaimed are recorded and reported to the environmental unit.
- Recycling and sorting of waste at the General Waste Site will be conducted in the following manner:
- Presorted waste shall be placed in skips according to waste types as defined in procedure BMM-HSE-ENV-SOP-0040 Handling, Storing and Disposal of waste.
    - o Waste, which cannot be recycled, will be disposed into the landfill.
    - o By the end of each day, the sorted waste for recycling will be removed to the Salvage yard.

- All persons conducting recycling are to have gloves and necessary PPE.
- Risk Assessment for sorting waste is to be availed by the Business partner conducting sorting.

4.2 Operation of the Garden Refuse Site

- A refuse-handling Contract Business Partner collects garden waste from both the North and South Villages and removes it to the Garden refuse dump.
- This material is transported in a telecon trailer, truck to the Garden Refuse site where it is dumped.
- Private individuals residing in Aggeneys may dispose garden refuse at Pella Street or Township Telecon bays.
- There will be no burning of waste at garden refuse site due to risk of smoke into the ventilation shaft and Environmental regulations.
- The plans of the refuse dump sites are filled with and maintained by the Black Mountain Survey Department.

4.3 Environmental Incidents

- Should any waste be blown outside of the landfill site an Environmental incident should be raised.
- Any illegal dumping outside and inside the area of the refuse sites is also to be reported as an Environmental Incident.

4.4 Auditing of Waste management activities

- The Environmental Unit at Black Mountain mine will carry out annual internal audits of compliance to this procedure.
- External audits to be done at least once every two years

4.5 Reporting Requirements

- DWS requires the submission of an annual report.
- DEFFE requires monthly Waste Volumes through SAWIC site.
- Waste Records must be kept accurate and up to date and retained for at least 5 years.

5 REVISION HISTORY

Revision 9 of “Management of Domestic & Garden Refuse Sites” dated 30 May 2019

- Procedure content 5.1.2 has been updated with excavated trench works
- Procedure content 5.1.3 has been updated with soil covering
- Replace DWA with DWS requires the submission of an annual report.
- Replace SSD manager with HSE manager as Approval /Owner

- Replace SHE manager with HSE Manager as Approver

Revision 10 of "Management of Domestic & Garden Refuse Sites" dated 18 May 2021.

- Update procedure to reflect name change of Department Environmental Affairs to Department Environment, Forestry and Fisheries
- Procedure referral is changed from STD to SOP.
- Update signature field.

Revision 11 of "Management of Domestic & Garden Refuse Sites" dated 12 August 2022.

- Update procedure to reflect name change of Department Environmental Affairs to Department Environment, Forestry and Fisheries in section 5.5

Revision 12 of "Management of Domestic & Garden Refuse Sites" dated 13 January 2025.

- Permit conditions and operational conditions review
- 5.4 renamed to Auditing of waste management activities
- 5.5 Annual Audit requirements updated

Please Note: Hard copies of old Procedures available in Environmental Procedures Archive file in Environmental Department.

6 RESPONSIBILITIES

- The Environmental Manager shall implement and maintain this document.
- Department Heads shall ensure that this SOP is applied with due diligence.
- Deviations from this SOP shall be effected via approved "Deviations from Standard" documentation.
- Should additional precautions, due to special circumstances unique to that Department/Section, over-and-above the requirements of the Procedure be necessary, then the Department Head shall ensure that, in consultation with the relevant specialists, such requirements are specified in writing, conveyed over to the end users and recorded as such.

7 VALIDITY AND DOCUMENT MANAGEMENT

7.4 Document Validity

This SOP is effective from 2007/07/06 and was last reviewed on 13-01-2025. This SOP will be reviewed every 2 Years.

7.4 Document Management

7.4.1 This SOP replaces any other SOP issued earlier by BMM to the extent specifically covered here. This SOP should be followed in letter and spirit.

7.4.2 BMM is committed to continuously reviewing and updating policies and procedures, based on the Entity's risk assessment and shall incorporate for any regulatory requirement which is required to do so.

7.4.3 Any amendment to this SOP or issue of any guidance or circular etc. under this procedure must be approved in writing by the approving authority as listed in this document.

7.4.4 BMM reserves the right to withdraw, modify or revise the SOP as a whole / partial without providing any justification for the same. On revision, it should be duly communicated to the personnel involved.

7.4.5 If compliance with this SOP ever conflicts with the applicable law, regulation, directives issued by the statutory and or regulatory authority, then compliance must be ensured with the law.

7.4.6 In order to ensure compliance or to address any known conflicts with the law or to address any specific local requirements, BMM may adopt local sub-procedures which shall be by way of addendum to this SOP and which shall be approved by the approver of this SOP. Proposing of such addendum shall be the responsibility of the respective Entity’s competent authority who is at an equivalent level with the SOP owner as set out in this document.

7.4 Violation of Sop

7.3.1 BMM follow a “Zero Tolerance Policy” with respect to non-compliance with this SOP and/or any other SOP / guidance issued by BMM and its constituent Entities.

7.3.2 Violation of this SOP is subject to appropriate disciplinary actions which may include but not limited to termination of employment. This determination will be based on the facts and circumstances of each situation. Any accused of violation of this SOP will be given an opportunity to present their case prior to any determination of appropriate disciplinary actions. Violation of this SOP may also be subject to substantial civil damages, criminal fines and prison terms.

7.3.3 Each employee is responsible for ensuring that their conduct and the conduct of anyone reporting to them shall fully comply with this SOP. Compliances, both personal and by subordinates, will be a factor in periodic performance appraisals.

7.4 Disclaimer

7.4.1 This SOP issued by BMM is for internal compliance and does not create, nor shall it be construed to create, directly or implicitly, any rights, duties or obligations of BMM to any person, body or legal Entity.

7.4.2 This document and its contents are the copyright property of BMM. The release of this document to any third party outside BMM is strictly prohibited without prior consent.

8 REVIEW AND APPROVAL

Content Owner(s)
Anne-Marie Cloete (Senior Environmental Officer | BMM) TimeStamp: 2025/01/21 1:08:37 PM ||

Content Reviewer(s)
Pieter David Venter (Environmental Manager | BMM) TimeStamp: 2025/02/06 10:36:40 AM ||

Content Approver(s)
Catharina Kotze (Head of HSE | BMM) TimeStamp: 2025/02/17 8:25:07 AM ||

This document was approved (in sequence) by the individuals above using electronic approval in our Document Control System.

Final approval status: Approved

Approvals were done electronically.

❖ Annexures / Appendix