

ONE AGGREGATE GRAVEL MING ON THE REMAINING EXTENT OF THE FARM BLOEMHOF 14, MAGISTERIAL DISTRICT PARYS, FREE STATE PROVINCE



ENVIRONMENTAL AUDIT REPORT

REFERENCE NUMBER:	FS 30/5/1/2/3/2/1 10045 MR
AUDIT PERIOD:	APRIL 2026

Prepared For:

Bloemhof Quarry (Pty) Ltd
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PROJECT DETAIL:

Permit Number:	FS 30/5/1/2/3/2/1 10045 MR	Date of Commencement:	15 June 2017
Site Name:	Bloemhof Quarry	Report Date:	April 2026
Contractor:	B&E International (Pty) Ltd	Report Number:	03
Environmental Control Officer:	Zoë Norval	Other Authorisations:	None

DETAIL OF AUDITOR (APPENDIX 7 SUB-REGULATION 3(A) & (B)):

ECO:	Zoë Norval
Expertise:	Ms Z. Norval has a Bsc degree in Environmental Science and an Honours degree in Botany. In her Honours year, she focused mainly on environmental assessments and geographic information systems. Her expertise comprises a range of assisting senior consultants with environmental services, Environmental Control and Environmental Performance Assessments / Compliance Audits, preparation of environmental related documentation, Mining Right and Permit applications and applications for Environmental Authorisations
Declaration of Independence:	<p>I, Zoë Norval, in my capacity as environmental control officer declare that–</p> <ul style="list-style-type: none"> ■ I act as independent environmental control officer in this compliance audit; ■ I will perform the work relating to the audit in an objective manner, even if the results and findings are not favourable to the holder of the authorisation; ■ I have expertise in conducting environmental compliance audits, including knowledge of the Act and regulations that have relevance to the activity; ■ I will adhere to and comply with all responsibilities as indicated in the National Environmental Management Act and Environmental Impact Assessment Regulations. ■ I do not have and will not have any vested interest in the activity other than remuneration for work performed in terms of the Environmental Impact Assessment Regulations, 2014. <div style="text-align: center; margin-top: 20px;">  </div> <p style="display: flex; justify-content: space-between;"> Zoë Norval Date: 02 April 2026 </p>

SCOPE & PURPOSE OF ENVIRONMENTAL AUDIT (APPENDIX 7 SUB-REGULATION 3(C)):

This environmental audit report was compiled in terms of the requirements of the NEMA EIA Regulations, 2010.

OBJECTIVE:

The objective of the environmental audit report (EAR) is to evaluate compliance of the operational activities in terms of the environmental management programme (EMPR) and mining permit.

INSPECTED AREAS:

It should be noted that the site is currently temporarily decommissioned, with no mining activities taking place during this audit, as the client is waiting for tenders to be rewarded. The inspection included an assessment of the mining right area.

ASSUMPTIONS, UNCERTAINTIES OR GAPS IN KNOWLEDGE (APPENDIX 7 SUB-REGULATION 3(F)):

The assumptions made in this document, stem from specific information gathered during and photos taken from the mining right holder.

LOCATION:

Site Location:	The Remaining Extent of the Farm Bloemhof 14 is situated approximately 75 km North of Kroonstad Free State Province.
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PROJECT DESCRIPTION:

Bloemhof Quarry (Pty) Ltd (hereinafter referred to as “the mine”) has a mining right for the mining of aggregate gravel on the Remaining Extent of The Farm Bloemhof 14, Parys, Free State Province. The mining right was granted on 19 January 2021 and the right was subsequently executed on 25 March 2021. Registration of the right took place on 22 April 2021, under MPT number: 16/2021. The mining right was granted for a period of 20 years, which period comes to an end on 18 January 2041. The mining right underwent a section 11 application where the right was transferred from Inzalo Crushing and Aggregates (Pty) Ltd to Bloemhof Quarry (Pty) Ltd.

Bloemhof Quarry was operational for a brief period of four months, from August 2022 to November 2022. Since then, it has operated on an ad-hoc, commercial basis due to low market demand for its products. As the quarry is currently not in operation, no employees are stationed at the site.

SITE CONDITIONS:

Sunny with no wind.

REPORTABLE ENVIRONMENTAL INCIDENTS:

None at this stage.

ADOPTED METHODOLOGY (APPENDIX 7 SUB-REGULATION 3(D)):

COMPLIANCE SCORE	DESCRIPTION
1	Task not achieved
2	Task 20% achieved
3	Task 50% achieved
4	Task 80% achieved
5	Task 100% achieved in accordance with the EMP

NON-COMPLIANCE SCORE	DESCRIPTION
1	LOW – Mitigation not needed / mitigation measures to be maintained
2	MEDIUM – Mitigation should be considered
3	HIGH – Mitigation compulsory

INSPECTION ASPECTS:

DESCRIPTION	COMPLIANCE SCORE	NON-COMPLIANCE SCORE	STATUS	COMMENTS
LEGISLATION COMPLIANCE:				
Mineral and Petroleum Resources Development Act, 2002 (Act No. 28 of 2002)	5	1	Compliant.	As mentioned earlier, Bloemhof Quarry was only operational for four months, August 2022 – November 2022, and has been operating on an ad-hoc, commercial basis due to low market demand of product
Mining Right, EA and EMPr available on site	5	1	Compliant.	All documents are stored at B&E offices.
National Water Act, (Act No. 36 of 1998)	5	1	Compliant.	A General Authorisation is in place for Section 21(a) taking of water from a water resources and Section 21(g) for disposing of waste in manner which may detrimentally impact on the water resource and for Section 21(j) removing, discharging or disposing of water found underground within the property Remainder of Bloemhof 14.
National Environmental Management Act, 1998 (Act No. 107 of 1998) and the Environmental Impact Assessment Regulations, 2010	5	1	Compliant.	-
Environmental Conservation Act, 1989 (Act 73 of 1989)	5	1	Compliant.	
National Heritage Resources Act No 25 of 1999	5	-	Compliant	
National Environmental Management: Air Quality Act, 2004 (Act No. 39 of 2004)	5	1	Compliant.	
Occupational Health and Safety Act. 1993 (Act No.85 of 1993)	5	1	Compliant.	
Mine Health and Safety Act, 1996 (Act No. 29 of 1996)	5	1	Compliant.	
ASPECTS OF THE AFFECTED ENVIRONMENT				
TOPSOIL MANAGEMENT				
The first 300mm of topsoil must be removed and stored along the boundaries of the mining area.	N/A	N/A	N/A	Not applicable as the mine is non-operational
Topsoil heaps stored longer than 6 months have been vegetated with indigenous grass seed mix if vegetation does not naturally germinate within the first growth season	N/A	N/A	N/A	As above

DESCRIPTION	COMPLIANCE SCORE	NON-COMPLIANCE SCORE	STATUS	COMMENTS
Topsoil stockpiles should be placed on a levelled area and measures should be implemented to safeguard the piles from being washed away or blown away. A cover crop implemented to curb the chances of erosion.	N/A	N/A	N/A	-
Topsoil heaps should not exceed 1.5m in order to preserve micro-organisms within the topsoil, which can be lost due to compaction and lack of oxygen.	N/A	N/A	N/A	-
Storm- and runoff water should be diverted around the stockpile area and access roads to prevent erosion.	N/A	N/A	N/A	-
FAUNA AND FLORA				
A weed and invader plant control management plan is implemented to ensure eradication of all listed invader plants in terms of Conservation of Agricultural Act (Act No 43 1983).	N/A	N/A	N/A	As above
All alien vegetation in the vicinity of the study area is removed regularly and reseeded with indigenous grasses and sedges throughout the life cycle of the mining activities.	N/A	N/A	N/A	-
Stockpiles needs to be kept free of weeds.	N/A	N/A	N/A	-
A walk-through for floral and faunal Species of Conservation Concern (SCC) was conducted in areas prior to mining activities, along the access road and immediate vicinity	N/A	N/A	N/A	-
The site manager should ensure that no fauna is caught, killed, harmed, sold or played with.	N/A	N/A	N/A	-
Workers should be instructed to report any animals that may be trapped in the working area.	N/A	N/A	N/A	-
No snares may be set or nests raided for eggs or young.	N/A	N/A	N/A	-
No plants or trees may be removed without the approval of the ECO.	N/A	N/A	N/A	-
Protected species must remain in situ until the necessary permits are obtained under NEM;BA	N/A	N/A	N/A	-
AIR QUALITY AND NOISE				

DESCRIPTION	COMPLIANCE SCORE	NON-COMPLIANCE SCORE	STATUS	COMMENTS
The liberation of dust into the surrounding environment must be effectively controlled by the use of, inter alia, water spraying and/or other dust-allaying agents that does not contain PCB's to minimize and control airborne dust	N/A	N/A	N/A	-
The site manager continuously assess all of the dust suppression equipment to confirm its effectiveness in addressing dust suppression.	N/A	N/A	N/A	-
Speed on the access roads must be limited to 20km/h to prevent the generation of excess dust.	N/A	N/A	N/A	-
The applicant must ensure that employees and staff conduct themselves in an acceptable manner while on site.	N/A	N/A	N/A	-
A dust inspection log must be added to the management of the site in order to record the dust conditions of the site. The logs must be filled at least once a week in the environmental site file and be made available for auditing purposes	N/A	N/A	N/A	-
Noise abatement equipment such as mufflers on diesel engines must be maintained in good conditions	N/A	N/A	N/A	-
The screening plant equipped with water sprayers to alleviate dust generation and that water is re-used in the sprayer system.	N/A	N/A	N/A	-
All mining vehicles must be equipped with silencers and maintained in a road worthy condition in terms of the Road Transport Act.	N/A	N/A	N/A	-
SURFACE AND STORM WATER MANAGEMENT				
No activity occurs within wetlands and their 100m buffer zones, within rivers and their 100m buffer zones/ 1:100 year flood line without the necessary authorization under NEMA and NWA	N/A	N/A	N/A	As above
Regular monitoring and maintenance of storm water drainage facilities.	N/A	N/A	N/A	-

DESCRIPTION	COMPLIANCE SCORE	NON-COMPLIANCE SCORE	STATUS	COMMENTS
Storm water must be diverted around the topsoil heaps, stockpile areas and access roads to prevent erosion and loss of material. Where necessary erosion stabilizing action such as gabions or re-vegetation must be implemented.	N/A	N/A	N/A	-
Mining is conducted in accordance with the Best Practice Guideline for small scale mining that relates to storm water management, erosion and sediment control and waste management, developed by the Department of Water Affairs (DWA), and any other conditions which that Department may impose:	N/A	N/A	N/A	-
All soil surfaces compacted as a result of mining/construction activities must be ripped, and imported materials must be removed.	N/A	N/A	N/A	-
Any erosion channel developed during mining/construction period or during vegetation establishment must be restored to a proper condition.	N/A	N/A	N/A	-
Clean water (e.g. rainwater) must be kept clean and be routed to a natural watercourse by a system separate from the dirty water system. You must prevent clean water from running or spilling into dirty water systems.	N/A	N/A	N/A	-
Runoff water must also be diverted around the stockpile areas with trenches and contour structures to prevent erosion of the work areas.	N/A	N/A	N/A	-
Dirty water must be prevented from spilling or seeping into clean water systems.	N/A	N/A	N/A	-
The storm water management plan must apply for the entire life cycle of the mine and over different hydrological cycles (rainfall patterns).	N/A	N/A	N/A	-
ARCHAEOLOGICAL AND CULTURAL INTEREST				
No mining within a 50m buffer zone from historical, and prehistorical resources.	N/A	N/A	N/A	-

DESCRIPTION	COMPLIANCE SCORE	NON-COMPLIANCE SCORE	STATUS	COMMENTS
All machine operations are to be monitored in order to prevent any activity in heritage sensitive sites.	N/A	N/A	N/A	-
Archaeological and/or cultural remnants protected.	N/A	N/A	N/A	-
All machine operations are to be monitored in order to prevent any activity in heritage sensitive sites.	N/A	N/A	N/A	-
VISUAL EXPOSURE				
The site needs to have a neat appearance and be kept in good condition at all times.	N/A	N/A	N/A	-
Upon closure, the site needs to be rehabilitated and sloped to ensure that the visual impact on the aesthetic value of the area is kept to a minimum.	N/A	N/A	N/A	-
All mining activities must take place within the boundaries of the site.	N/A	N/A	N/A	-
MINING ACTIVITIES				
MANAGEMENT OF FUEL AND HYDROCARBON PRODUCT				
Hazardous material stored within a bunded area	N/A	N/A	N/A	-
Management of fuel and oil spills	N/A	N/A	N/A	-
Drip trays present when refuelling is done outside the service bay	N/A	N/A	N/A	-
Sump and oil separator operational	N/A	N/A	N/A	-
WASTE MANAGEMENT				
Waste minimization implemented through incorporating waste avoidance, reduction, recycling, treat, reuse and disposal where appropriate as per integrated waste management approach	N/A	N/A	N/A	-
Mixing of cement, concrete, paints, solvent, sealants and adhesive must be done in specified area on concrete aprons or on protected plastic linings to contain spillage or overflow onto soil to avoid contamination of underground water and environmental damage.	N/A	N/A	N/A	-
No processing area or waste pile may be established within 100m of the edge of any river channel or other water bodies.	N/A	N/A	N/A	-
Any vehicle repairs may only take place within the service bay area (bunded area) and all waste products must be disposed of in a 200-litre closed container/bin found inside the emergency service area.	N/A	N/A	N/A	-

DESCRIPTION	COMPLIANCE SCORE	NON-COMPLIANCE SCORE	STATUS	COMMENTS
<p>The storage of hydrocarbons must have bund walls with adequate capacity to contain the maximum volume that is stored in the area. The waste storage site must have a firm, impermeable, chemical resistant floors and a roof to prevent direct sunlight and rain water from getting in contact with the waste. Uncontaminated storm water must be prevented from coming into contact with the waste and must be diverted away from the storage site.</p>	N/A	N/A	N/A	-
<p>Any effluents containing oil, grease or other industrial substances must be collected in a suitable receptacle and removed from the site, either for resale or for appropriate disposal at a recognised facility. No temporary dumping and littering of waste is allowed on site</p>	N/A	N/A	N/A	-
<p>Spills must be cleaned up immediately to the satisfaction of the Regional Manager by removing the spillage together with the polluted soil and by disposing of them at a recognised facility. Spill kits must be available on site</p>	N/A	N/A	N/A	-
<p>An emergency preparedness plan to address any pollution incidents (i.e. such as oil spillage etc) that occur on site must be developed.</p>	N/A	N/A	N/A	-
<p>Suitable covered receptacles must be available at all times and conveniently placed for the disposal of waste. All storage skips and bins are not overfilled.</p>	N/A	N/A	N/A	-
<p>Non-biodegradable refuse such as glass bottles, plastic bags, metal scrap, etc., must be stored in an animal-proof container with a closable lid at a collecting point and collected on a regular basis and disposed of at a recognised landfill site. Specific precautions should be taken to prevent refuse from being dumped on or in the vicinity of the mine area.</p>	N/A	N/A	N/A	-
<p>No waste must be disposed of through burying, burning, dumped or deposited on the adjacent properties or public places and open spaces.</p>	N/A	N/A	N/A	-
<p>Spillage of petrochemical products must be avoided. In the case of accidental spillage, contaminated soil must be removed for bioremediation or disposed of at a facility for the substance</p>	N/A	N/A	N/A	-

DESCRIPTION	COMPLIANCE SCORE	NON-COMPLIANCE SCORE	STATUS	COMMENTS
concerned. Disturbed land must be rehabilitated and seeded with vegetation seed naturally occurring on site to the satisfaction of the DMPR and DWS.				
Biodegradable refuse generated must be handled as indicated above.	N/A	N/A	N/A	-
POTABLE WATER AND ABLUTION FACILITIES				
Ablution facilities available on site more than 200m from a watercourse	N/A	N/A	N/A	-
All sanitary facilities provided onsite must be emptied on a weekly basis and be maintained in a good hygienically condition	N/A	N/A	N/A	-
Ablution facilities must be provided with a ratio 1 for every 15 workers and placed in a manner to prevent spills and leaks and maintained according to the operating instruction and must be disposed of at an authorised waste water treatment works.	N/A	N/A	N/A	-
Potable water available on site for use of workers	N/A	N/A	N/A	-
FIRE MANAGEMENT				
Fire-fighting equipment that are in good working conditions must be available at all times for their usage during the occurrence of accidental fires.	N/A	N/A	N/A	-
No open fires at mining site allowed	N/A	N/A	N/A	-
Workers must be adequately trained in the handling of firefighting equipment	N/A	N/A	N/A	-
Smoking must be prohibited in the vicinity of flammable substances.	N/A	N/A	N/A	-
Cooking and heating fires must be permitted only in designated areas with appropriate safety measures.	N/A	N/A	N/A	-
MINING ACTIVITY/ EQUIPMENT MANAGEMENT				
A buffer zone of 100 metres between the activities and the residential areas, cemeteries or burial grounds.	N/A	N/A	N/A	-
All mining earth-moving equipment & vehicles operating within site boundaries preventing crisscrossing	N/A	N/A	N/A	-
Mining activities are all outside the 1:100-year flood line	N/A	N/A	N/A	-

DESCRIPTION	COMPLIANCE SCORE	NON-COMPLIANCE SCORE	STATUS	COMMENTS
Mining equipment mechanically sound without visible oil leaks and a decrease in smoke discharge	N/A	N/A	N/A	-
Vehicle repairs, maintenance and refuelling only conducted in service bay area, and waste products disposed of in containers/bins	N/A	N/A	N/A	-
All trucks weighed prior to leaving the site	N/A	N/A	N/A	-
No excavation to occur below the level of the water table	N/A	N/A	N/A	-
Any sand or gravel leaving the site must be fully covered with tarpaulin cloth while being transported.	N/A	N/A	N/A	-
EMPLOYEE AND SAFETY MANAGEMENT				
Workers should have access to the correct personal protection equipment (PPE) as required by law.	N/A	N/A	N/A	-
Sheet runoff from access roads must be slowed down by the strategic placement of berms.	N/A	N/A	N/A	-
All operations should comply with the Occupational Health and Safety Act.	N/A	N/A	N/A	-
Workers inducted and informed of EMP conditions	N/A	N/A	N/A	-
No camping allowed on the mining area	N/A	N/A	N/A	-
Are there signs present, indicating the mining site about the hazard around the construction site and heavy vehicles and speed restrictions	N/A	N/A	N/A	-
Mining and all related activities must be limited to daytime hours on Mondays to Saturdays and no work must be done on Sundays	N/A	N/A	N/A	-
Potentially hazardous area must be demarcated with danger tape	N/A	N/A	N/A	-
SITE SECURITY AND ACCESS CONTROL				
Effective access control to the site to reasonably prevent unauthorised entry such as lockable gates and mining area fenced off. Signs indicating the risks involved in unauthorised entry must be displayed at the entrance	N/A	N/A	N/A	-
Newly constructed access roads (if applicable) must be adequately maintained so as to minimise dust, erosion or undue surface damage.	N/A	N/A	N/A	-
Necessary signage and traffic measures must be implemented for safe and convenient access to the site from the adjacent roads.	N/A	N/A	N/A	-

DESCRIPTION	COMPLIANCE SCORE	NON-COMPLIANCE SCORE	STATUS	COMMENTS
Storm water should be diverted around the access roads to prevent erosion.	N/A	N/A	N/A	-
Erosion of access road: Vehicular movement must be restricted to existing access routes to prevent crisscrossing of tracks through undisturbed areas. Rutting and erosion of the access road caused as a result of the mining activities should be repaired by the applicant.	N/A	N/A	N/A	-
Weatherproof, durable and legible notices in at least three official languages applicable in the area must be displayed at the entrance to the site. These notices must include: <ul style="list-style-type: none"> Hours of the operation Name Address Telephone number of the EA holder and site manager 	N/A	N/A	N/A	-
EMERGENCY RESPONSE PLAN				
Maintain and implement an emergency response plan with an annual review during the audit period and after major emergency and or major accident. The plan must, amongst others, include: <ul style="list-style-type: none"> Site fire Spillage Natural disasters (floods) Industrial action Contact details of police, ambulances and any emergency centre closer to the site 	N/A	N/A	N/A	-
Emergency register available on site	N/A	N/A	N/A	-
In the event of emergency, the holder must be notify the department within 24hrs, and contact relevant emergency services in the area	N/A	N/A	N/A	-
All significant pollution incidents must be reported to Department of Mineral and Petroleum Resources within forty (48) hours of occurrences.	N/A	N/A	N/A	-
REHABILITATION PLAN				
Rehabilitate backfilled pit areas to similar or better condition than pre-mining landscape.	N/A	N/A	N/A	-



Environmental Audit Report

Bloemhof Quarry

DESCRIPTION	COMPLIANCE SCORE	NON-COMPLIANCE SCORE	STATUS	COMMENTS
Rip, fertilize, and seed footprint area after replacement of topsoil. No mitigation for deeper sub-soil compaction.	N/A	N/A	N/A	-
Establish final landscape design according to final end land-use, follow backfilling & soil replacement plan, and monitor subsidence development.	N/A	N/A	N/A	-
Use mobile machinery only for seed bed preparation. Seeding to be done by hand.	N/A	N/A	N/A	-

COMMENTS / COMPLAINTS RECEIVED FROM I&AP'S:

No comments / complaints have been received by site management.

RESULT OF ASSESSMENT (REGULATION 55(3)(f):

As previously indicated, Bloemhof Quarry was operational for a short period of four months, from August 2022 to November 2022. Thereafter, operations continued on a limited ad hoc commercial basis due to reduced market demand for the quarry's products. The quarry is currently not operational and, consequently, no personnel are stationed on site. All relevant documentation is retained at the offices of the contractor, B&E International.

ABILITY OF EMPR TO ADEQUATELY MANAGE OR MITIGATE ENVIRONMENTAL IMPACTS (APPENDIX 7 SUB-REGULATION 3(E):

Good

NEED FOR AMENDMENT OF THE EMPR:

Not at this stage.

FINANCIAL PROVISION:

The initial calculations were undertaken by Greenmined Environmental (Pty) Ltd in 2018 as part of the mining right application, and the financial provision value for the rehabilitation of the mining area was in the sum of R 3 943 697.55 for which amount a financial guarantee was lodged with the DMPR. The 2026 financial provision amounted to R1 843 598,06 which does not exceed the value of financial guarantee in place at the DMPR and has a surplus of R2 100 081,49

ECO SIGNATURE:

NAME:	SIGNATURE:	DATE:
Zoë Norval		20 April 2026

PHOTOGRAPHS:

QUARRY PIT

