

**PROPOSED AGGREGATE / GRAVEL MINE ON A
PORTION OF PORTION 4 OF THE FARM WAAI KRAAL
120, REGISTRATION DIVISION OF BEAUFORT WEST,
WESTERN CAPE PROVINCE
SITE SENSITIVITY REPORT**



APRIL 2026

REFERENCE NUMBER: WC 30/5/1/3/2/10386 MP

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EXECUTIVE SUMMARY

The applicant Boeteka Doleriet (Pty) Ltd, applied for environmental authorisation (EA) and a mining permit to mine aggregate on a portion of Portion 4 of the farm Waai Kraal 120, Registration Division of Beaufort West, Western Cape province.

The mining method will make use of blasting in order to loosen the hard rock; the material will then be loaded and hauled to the crushing plant where it will be screened to various sized stockpiles. The aggregate will be stockpiled until it is transported from site using tipper trucks. All mining related activities will be contained within the approved mining permit boundaries.

The proposed mining area is approximately 4.9 ha in extent and the applicant, intends to win material from the area for at least 2 years with a possible extension of another 3 years. The aggregate to be removed from the quarry will be used for the construction industry in the vicinity. The proposed quarry will therefore contribute to the upgrading / maintenance of road infrastructure and building contracts in and around the Beaufort West area.

The applicant, intends to win material from the area for at least 2 years with a possible extension of another 3 years. The gravel to be removed from the quarry will be used for construction industry in the vicinity. The proposed quarry will therefore contribute to the upgrading / maintenance of road infrastructure and building contracts in and around the Beaufort West area.

The proposed project triggers listed activities in terms of the National Environmental Management Act, 1998 (Act 107 of 1998) and the Environmental Impact Assessment Regulations 2014 (as amended 2017) and therefore requires an environmental impact assessment (basic assessment process) that assess project specific environmental impacts and alternatives, consider public input, and propose mitigation measures, to ultimately culminate in an environmental management programme that informs the competent authority (Department of Mineral and Petroleum Resources) when considering the environmental authorisation. This report, the Draft Basic Assessment Report, forms part of the departmental requirements, and presents the first report of the EIA process.

Project description

The proposed mining footprint will be 4.9 ha and will be developed over an area that has been partially disturbed by adjacent mining activities. The mining method will make use of blasting in order to loosen the hard rock; the material will then be loaded and hauled to the crushing plant where it will be screened to various sized stockpiles. The aggregate will be stockpiled until it is transported from site using tipper trucks. All mining related activities will be contained within the approved mining permit boundaries.

The proposed mining area is approximately 4.9 ha in extent and the applicant, intends to win material from the area for at least 2 years with a possible extension of another 3 years. The gravel to be removed from the quarry will be used for construction industry in the vicinity. The proposed quarry will therefore contribute to the upgrading / maintenance of road infrastructure and building contracts in and around the Beaufort West area.

The mining activities will consist out of the following:

- Stripping and stockpiling of topsoil;
- Blasting
- Excavating;
- Crushing;
- Stockpiling and transporting;
- Sloping and landscaping upon closure of the site; and
- Replacing the topsoil and vegetation the disturbed area.

The mining site will contain the following:

- Excavating equipment;
- Earth moving equipment;
- Mobile crushing and screening plants;
- Access Roads;
- Site office (Container);
- Site vehicles;
- Parking area for visitors and site vehicles;
- Weighbridge;
- Ablution facilities (Chemical toilet).

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Should the MP be issued and the mining of dolerite be allowed, the proposed project will comprise of activities that can be divided into three key phases namely the:

- (1) Site establishment/construction phase which will involve the demarcation of the permitted mining area. Site establishment will also necessitate the clearing of vegetation, the stripping and stockpiling of topsoil, and the introduction of mining machinery and equipment.*
- (2) Operational phase that will entail the mining of aggregate (dolerite) / gravel from the approved footprint area via conventional open cast mining methods. The mining method will make use of blasting in order to loosen the hard rock; upon which the loosened material will be transported to the crushing and screening processing plant where it will be screened to various sized stockpiles, before it is sold and transported from site to clients.*
- (3) Decommissioning phase which entails the rehabilitation of the affected environment prior to the submission of a closure application to the Department of Mineral and Petroleum Resources (DMPR). The permit holder will further be responsible for the seeding of all rehabilitated areas. Once the full mining area is rehabilitated, the mining permit holder will be required to submit a closure application to the DMPR in accordance with section 43(4) of the MPRDA, 2002. The Closure Application will be submitted in terms of Regulation 62 of the MPRDA, 2002, and Government Notice 940 of NEMA, 1998 (as amended).*

The applicant, intends to win material from the area for at least 2 years with a possible extension of another 3 years. The gravel to be removed from the quarry will be used for construction industry in the vicinity. The proposed quarry will therefore contribute to the upgrading / maintenance of road infrastructure and building contracts in and around the Beaufort West area.

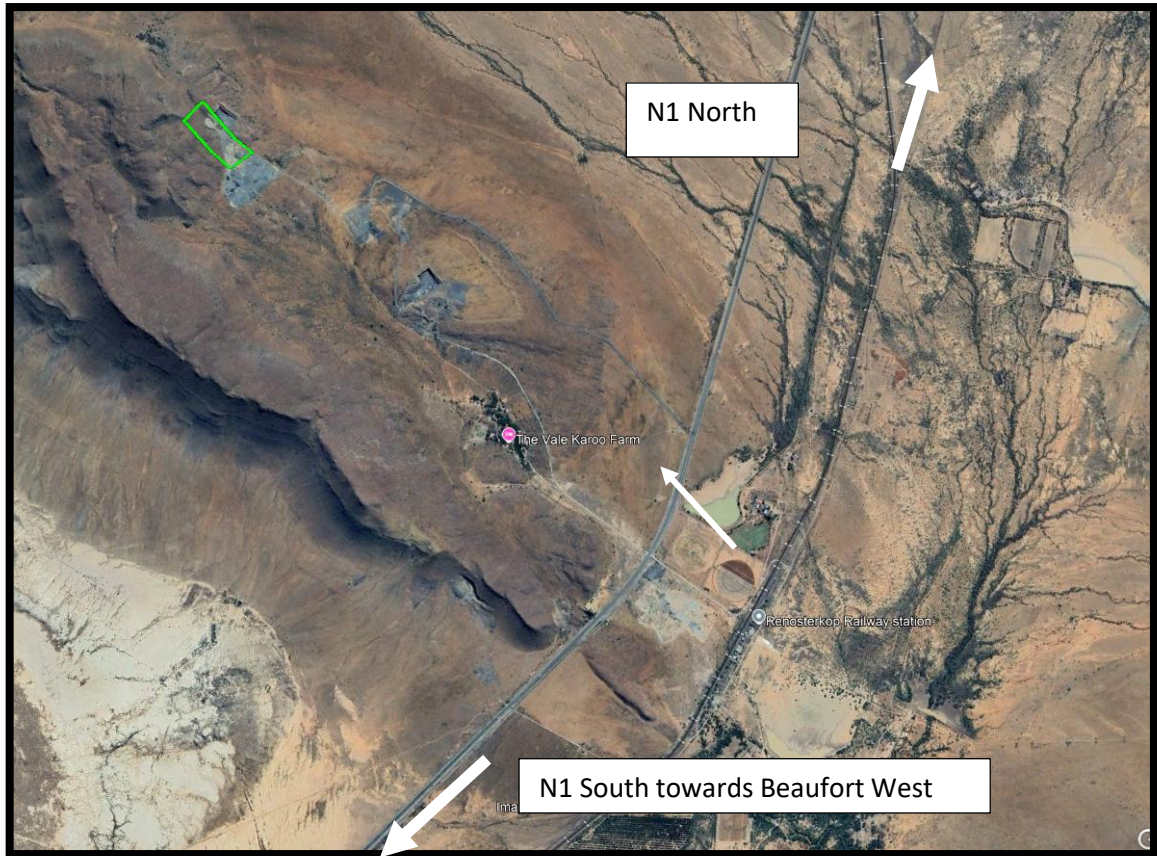


Figure 1: Satellite view of the proposed mining permit area (green polygon) of Boeteka Doleriet (Pty) Ltd (image obtained from Google Earth).

This report addresses the findings of the Screening Tool Report (Appendix N), generated from the National Web Based Environmental Screening Tool, and provides motivation for the various specialist studies identified to be conducted. As per the Screening Tool Report, the proposed site is located within a low sensitivity area from an agricultural perspective, a medium sensitivity area from an animal species perspective, a low sensitivity area from an aquatic biodiversity perspective, a low sensitivity from an archaeological and cultural heritage perspective, a low sensitivity area from a civil aviation perspective, a medium sensitivity area from a plant species perspective, a low sensitivity area from a defense perspective, a very high sensitivity form a paleontology perspective and a low sensitivity area from a terrestrial biodiversity perspective.

Summary of specialist reports.

(This summary must be completed if any specialist reports informed the impact assessment and final site layout process and must be in the following tabular form):-

Table 1: Summary of specialist reports

LIST OF STUDIES UNDERTAKEN	RECOMMENDATIONS OF SPECIALIST REPORTS	SPECIALIST RECOMMENDATIONS THAT HAVE BEEN INCLUDED IN THE EIA REPORT (Mark with X if applicable)	REFERENCE TO APPLICABLE SECTION OF REPORT WHERE SPECIALIST RECOMMENDATIONS HAVE BEEN INCLUDED
<p>The screening report for an environmental authorisation, as required in terms of the 2014 NEMA EIA Regulations of a portion of Portion 4 of the farm Waai Kraal No 120 situated in the Beaufort West magisterial district of the Western Cape Province identified the following list of specialist assessment for inclusion in the assessment report:</p> <ul style="list-style-type: none"> ■ Agricultural Impact Assessment; ■ Archaeological and Cultural Heritage Impact Assessment; ■ Paleontology Impact Assessment; ■ Terrestrial Biodiversity Impact Assessment; ■ Aquatic Biodiversity Impact Assessment; ■ Hydrology Assessment; ■ Noise Impact Assessment; ■ Radioactivity Impact Assessment; ■ Traffic Impact Assessment; ■ Geotechnical Assessment; ■ Socio-economic Assessment; ■ Plant Species Assessment; ■ Animal Species Assessment. ■ Civil Aviation Assessment <p>Boeteka Doleriet (Pty) Ltd (hereafter referred to as the applicant) appointed Greenmined Environmental (Pty) Ltd as the environmental impact assessment practitioner (EAP) to undertake the EIA associated with the mining permit application. In light of this Greenmined would like to respond as follows to the list of required specialist studies:</p>			

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	<p> ■ Agricultural Impact Assessment (AIA): The portion of Portion 4 of the farm Waai Kraal No 120 situated in the Beaufort West magisterial district of the Western Cape Province is over an area that has been partially disturbed by adjacent mining activities and has very low agricultural potential due to the rocky surface. After consultation with the land owner Greenmined is of the opinion that a specialist AIA is not needed as the application footprint extends into an area with low agricultural potential. The proposed project will not necessitate the loss of any agricultural field, center pivot or similarly operated agricultural area. </p> <p> ■ Archaeological and Cultural Heritage Impact Assessment (HIA) & Paleontology Impact Assessment (PIA): As mentioned before, the National Web-Based Environmental Screening Tool classifies the Palaeontological Sensitivity Theme for the site as very high. However, according to the Palaeontological Heritage Comment (Appendix M), the area is considered to have low sensitivity, and no further specialist palaeontological monitoring or mitigation is recommended for this mining development. Nevertheless, a Chance Fossil Finds Protocol will be implemented in the unlikely event that significant fossil material is discovered prior to or during excavation. </p> <p> ■ Terrestrial Biodiversity Impact Assessment (TBIA) & Animal Species Assessment (ASA): An ecologist was appointed to conduct a study of the proposed footprint area. These findings are included under Plant Species Assessment (PSA). </p> <p> ■ Aquatic Biodiversity Impact Assessment (ABIA) & Hydrology Assessment (HA): The proposed project does not require a Water Use Authorisation in terms of Section 39 of the National Water Act, 1998 (Act No 36 of 1998). No activity will take place in or in close proximity to any water bodies. Any water required for the implementation of the project will be bought and transported to site. Therefore, in light of the consultation on this stage there is no need for a ABIA & HA. </p>		

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	<p>■ Noise Impact Assessment (NIA):</p> <p>The potential impact on the noise ambiance of the receiving environment is expected to be of low significance and representative of the machinery already operational at the property. Due to the small scale of the operation a NIA is not deemed applicable.</p> <p>■ Radioactivity Impact Assessment</p> <p>A radioactivity impact assessment is not deemed necessary for the proposed mining operation that will not store any chemicals on site, perform activities of radioactive nature or generate hazardous waste of radioactive nature.</p> <p>■ Traffic Impact Assessment (TIA):</p> <p>The Applicant will use the existing road to access the mining area and transport material from the mining area. The existing road has a formal entrance and was also used by the SANRAL to transport material. No upgrading of the road is needed prior to commencement. In light of the small scale of the proposed operation a TIA is not deemed necessary, should the Applicant implement the mitigation measures to be proposed in the EMPR.</p> <p>■ Geotechnical Assessment:</p> <p>No reason for a geotechnical assessment could be identified as no permanent infrastructure will be established at the proposed mining area.</p> <p>■ Socio-economic Assessment (SEA):</p>		

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	<p>The material to be sourced from the mining area will be used for the upgrading of the road infrastructure in the vicinity of the site. The proposed mine will be operated on an area with very low agricultural potential. Should any additional workers to be required on this mining activity they will be sourced from the local community. Workers will daily be transported to the site. The establishment of the mining area on the farm will also assist the property owner in the diversification of their income. In light of this a SEA is not deemed applicable to this project.</p> <p>■ Terrestrial Biodiversity Impact Assessment (TBIA), Animal Species Assessment (ASA), Plant Species Assessment (PSA):</p> <p>The National Web-based Environmental Screening Tool has characterized the Plant and Animal Sensitivity Theme to be of medium sensitivity whereas the Terrestrial Biodiversity Theme is rated with low sensitivity. As mentioned earlier, ground-truthing showed that the proposed footprint of the mining area is over an area that has been partially disturbed by adjacent mining activities and has very low agricultural potential due to the rocky surface. The proposed area consists of a combination of heavily disturbed terrain and surrounding natural semi-arid vegetation, with approximately 60–70% of the area visibly disturbed. The remaining 30–40% of the area consists of patchy natural vegetation typical of dry shrubland, comprising low grasses and small shrubs with occasional isolated bushes. The Applicant will make use of the existing access roads to the mining area (not disturbing any other areas) and fauna will not be impacted by the proposed mining activities as they will be able to move away or through the site, without being harmed. In light of the small scale of the proposed operation a TBIA, ASA and PSA is not deemed necessary, should the Applicant implement the mitigation measures to be proposed in the EMPR.</p> <p>■ Civil Aviation Assessment</p> <p>A civil aviation impact assessment is not deemed necessary for the proposed mining activities since the operations will have no effect on the air corridor that is situated above the area. The proposed operations will not consist of any high infrastructure or signal preventing equipment that will prevent airplanes from flying. The proposed mining activities is at 3400ft above sea level and the safe flying altitude is much higher than the operating altitude of the proposed mine and will not infringe on air traffic operations even if aircraft do fly directly over the proposed mining area.</p>		

