

# SMIT GRONDWERKE (PTY) LTD, ON A PORTION OF REMAINING EXTENT OF PORTION 2 OF THE FARM 199RD, CLANWILLIAM, WESTERN CAPE PROVINCE

## ENVIRONMENTAL PERFORMANCE ASSESSMENT / ENVIRONMENTAL AUDIT REPORT

<b>DMR REFERENCE NUMBER:</b>	<b>WC 30/5/1/3/2/10219 MP</b>
<b>AUDIT PERIOD:</b>	<b>17 January 2023</b>

### PREPARED BY:

#### PREPARED FOR:

Smit Grondwerke (Pty) Ltd  
Contact Person: Mr TG Smit  
Tel: 027 482 1701  
Fax: 027 482 1271  
Email: [grondwerke@smiting.co.za](mailto:grondwerke@smiting.co.za)  
Postal Address:  
P.O. Box 249  
Clanwilliam  
8135

#### PREPARED BY:

Greenmined Environmental  
Auditor: Murchellin Saal  
Tel: 021 851 2673  
Cell: 076 792 6327  
Fax: 086 546 0579  
Postal Address:  
Suite 62  
Private Bag x15  
Somerset West  
7129



## 1. PROJECT SPECIFIC DETAIL

ITEM	MINING PERMIT HOLDER
Company Name	Smit Grondwerke (Pty) Ltd
Contact Person	Mr. Tobias Gerhardus Smit
Tel Number	027 482 1701
Fax Number	027 482 1271
E-mail Address	<a href="mailto:grondwerke@smiting.co.za">grondwerke@smiting.co.za</a>
Postal Address	P.O. Box 249 Clanwilliam 8135
ITEM	CONSULTANT DETAIL
Company Name	Greenmined Environmental
Contact Person	Murchellin Saal
Tel Number	021 851 2673
Cell Number	076 792 6327
E-mail Address	<a href="mailto:Murchellin.s@greenmined.co.za">Murchellin.s@greenmined.co.za</a>
Postal Address	Postnet Suite 62 Private Bag x15 Somerset West 7129
ITEM	LOCATION AND AREA INFORMATION
Site Name	Tierkloof Sand Mine 2
Property Description	Remainder of Portion 2 of Farm 199
Location	The site is located ±740 m south-west of the N7 national road approximately 6.5 km north of Clanwilliam town.
Size of Mining Area	4.9 ha



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## **2. ENVIRONMENTAL AUDIT REPORT**


### **PROJECT DETAIL**

<b>Permit Number:</b>	06/2020 WC 30/5/1/3/2/10219 MP	<b>Inspection Date:</b>	17 January 2023
<b>Site Name:</b>	Tierkloof Sand Mine 2	<b>Permit Holder:</b>	Smit Ingenieurswerke & Transport CC
<b>Report Number:</b>	02	<b>Other Authorisations:</b>	LUPA: 12 August 2020

**ENVIRONMENTAL PERFORMANCE ASSESSMENT  
TIERKLOOF SAND MINE 2**

**DETAIL OF AUDITOR**

**(APPENDIX 7 SUB-REGULATION 3(A) & (B)):**

<b>ECO:</b>	Murchellin Saal
<b>EXPERTISE:</b>	Mrs. MD Saal has 9 years of experience in environmental legal compliance audits, (GIS) geographic information system, mining right and permit applications and applications for environmental authorisations & Water use applications.
<b>DECLARATION OF INDEPENDENCE:</b>	<p>I Murchellin Saal declare that –</p> <ul style="list-style-type: none"> <li>■ I act as independent environmental control officer in this compliance audit;</li> <li>■ 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;</li> <li>■ I have expertise in conducting environmental compliance audits, including knowledge of the Act and regulations that have relevance to the activity;</li> <li>■ I will adhere to and comply with all responsibilities as indicated in the National Environmental Management Act and Environmental Impact Assessment Regulations.</li> <li>■ 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 (as amended 2017).</li> </ul> <p align="center">             Signature of ECO <span style="float: right;">Date: 19 January 2023</span> </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, 2014 (as amended 2017).

**OBJECTIVE:**

The objective of the environmental audit report (EAR) is to evaluate compliance of the operational activities with the Environmental Management Programme Report (EMPR) and Environmental Authorisation as approved by the Department of Mineral Resources and Energy.

**INSPECTED AREAS:**

The inspection included an assessment of the following areas:

- Access road;
- Parking and
- Excavation area


## ENVIRONMENTAL PERFORMANCE ASSESSMENT TIERKLOOF SAND MINE 2

In order to establish the environmental compliance assessment of the operation, the mining site was inspected on foot by the Environmental Control Officer, Murchellin Sal, of Greenmined Environmental accompanied by site management.

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

The assumptions made in this document, stem from specific information gathered during the site audit and background information gathered from site management. No uncertainties or gaps in knowledge could be identified that is applicable during this audit period.

### LOCATION

<b>Site Location:</b>	The site is located $\pm 740$ m south-west of the N7 national road approximately 6.5 km north of Clanwilliam town.	
<b>Site Map:</b>		
<b>Site Coordinates:</b>	<b>DECIMAL DEGREES</b>	<b>DEGREES MINUTES SECONDS</b>
	A -32.135141° S 18.843874°E	A 32°08'06.508"S 18°50'37.946"E
	B -32.136660° S 18.846964°E	B 32°08'11.976"S 18°50'49.070"E
	C -32.137598°S 18.846378°E	C 32°08'15.353"S 18°50'46.961"E
	D -32.135824°S 18.842260°E	D 32°08'08.966"S 18°50'32.136"E

### PROJECT DESCRIPTION

Smit Ingenieurswerke & Transport CC applied for environmental authorisation and a mining permit over 4.9 ha of the above-mentioned property that was approved in January 2020 (EA), and March 2020 (MP) respectively. A second renewal of the mining permit will be submitted in March 2023. The mining area is 4.9 ha and will be developed over an area currently used for agricultural purposes. The mining method is representative of the small scale mining industry where the mineral



## ENVIRONMENTAL PERFORMANCE ASSESSMENT TIERKLOOF SAND MINE 2

(sand) is loaded with a front-end-loader (FEL) directly from the footprint area onto a truck that delivers it to the clients. Strip mining will be implemented with little to no stockpiling required. No washing of sand is needed. Due to the small scale of the operation no infrastructure will be established within the mining footprint. Prior to commencement of the mining activities the Farm owner cleared an area for potato planting. This area is now used by the permit holder for parking and toilet use. An agreement between the farmer and permit holder is included in the photo report. The proposed project does not require any electrical connections, and no chemicals will be stored on site. Vehicle/equipment maintenance will be done at an existing off-site workshop (Clanwilliam Town) of the permit holder, and the area will be reached via an existing farm road.

### SITE CONDITIONS

Very warm sunny conditions

### REPORTABLE ENVIRONMENTAL INCIDENTS

<b>Incident Date:</b>	No environmental incidents were recorded during the audit period.
<b>Incident No:</b>	
<b>Incident:</b>	
<b>How addressed:</b>	
<b>When addressed:</b>	



**ENVIRONMENTAL PERFORMANCE ASSESSMENT  
TIERKLOOF SAND MINE 2**

**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	<b>LOW</b> – Mitigation not needed / mitigation measures to be maintained
2	<b>MEDIUM</b> – Mitigation should be considered
3	<b>HIGH</b> – Mitigation compulsory





DESCRIPTION	COMPLIANCE SCORE	NON-COMPLIANCE SCORE	STATUS	COMMENTS
<b>LEGISLATION COMPLIANCE:</b>				
National Environmental Management Act, 1998 (Act No 107 of 1998) and the Environmental Impact Assessment Regulations, 2014 (as amended 2017).	5	-	Compliant	DMRE issued the operation with an environmental authorization (EA) on 27 January 2020.
Copy of the environmental authorisation (EA) and EMPR available on site.	5	-	Compliant	A copy of the EA and EMPR is available in a site file at the Permit Holders offices in Clanwilliam.
Mineral and Petroleum Resources Development Act, 2002 (Act No 28 of 2002).	5	-	Compliant	DMRE issued the operation with a mining permit (MP) on 10 March 2020. The first renewal of the permit was submitted to DMRE in February 2022, A second renewal will be submitted by March 2023.
Mining permit (MP) available on site.	5	-	Compliant	A copy of the MP is available in a site file at the Permit Holders offices in Clanwilliam
National Environmental Management: Air Quality Act, 2004 (Act No 39 of 2004).	N/A	-	-	The operations at the sand mine does not trigger the NEM:AQA, 2004.
National Environmental Management: Waste Act, 2008 (Act No 59 of 2008).	5	-	Compliant	Although the operations does not require a waste use licence, refuse generated at the mine is handled in accordance with the NEM:WA, 2008.
National Water Act, 1998 (Act 36 of 1998).	N/A	-	-	The operations at the sand mine does not trigger the NWA, 1998.
National Environmental Management: Biodiversity Act, 2004 (Act No 10 of 2004) (NEM:BA).	5	-	Compliant	At the time of the inspection no listed invasive plant species were noted within the mining footprint.
Hazardous Substances Act, 1973 (Act 15 of 1973).	N/A	-	-	No chemicals or hazardous substances are kept/stored at the mine.
<b>SOIL &amp; AGRICULTURAL POTENTIAL (EMPR PG 52, 72):</b>				
Topsoil stripping done (upper 300mm)	5	-	Compliant	The topsoil was stripped from the footprint prior to sand mining.
Topsoil storage/stockpiling (<1.5 m high)	5	-	Compliant	The stripped topsoil was stockpiled.

**ENVIRONMENTAL PERFORMANCE ASSESSMENT  
TIERKLOOF SAND MINE 2**

DESCRIPTION	COMPLIANCE SCORE	NON-COMPLIANCE SCORE	STATUS	COMMENTS
Topsoil stockpiles protected and not used for any purpose other than rehabilitation.	5	-	Compliant	
Surface slope (even if minimal) maintained so the excavation is free draining.	5	-	Compliant	-
Areas with erosion reinstated.	5	-	Compliant	
Steep slopes reduced to a minimum and profiled to blend with the surrounding topography.	5	-	Compliant	
Topsoil returned to rehabilitated area.	N/A	-	-	
Topsoil spreading done at the end of the rainy season.	N/A	-	-	The permit holder will strive to replace the topsoil (over the rehabilitated area. This will come into effect per 1 hectare areas.
Soil stabilised upon topsoil spreading.	N/A	-	-	Not yet applicable.
Rehabilitated area monitored for erosion.	N/A	-	-	Not yet applicable.
<b>BIODIVERSITY (EMPR PG 36, 44 -49,57):</b>				
Aliens & weeds controlled on site.	5	-	Compliant	At the time of the inspection no listed invader plants were noted within the mining footprint.
All animals, birds and reptiles protected on site	5	-	Compliant	-
Excavation providing an escape route for trapped animals.	5	-	Compliant	-
Excavation daily inspected for signs of trapped animals.	5	-	Compliant	-
Rehabilitated area covered with natural vegetation as required in the rehabilitation plan.	5	-	Compliant	Not yet applicable currently at 0.13ha extent. Rehabilitation as per EA will be implemented after each 1 hectare strips.
<b>AIR QUALITY &amp; NOISE (EMPR PG 45 – 51,55,71):</b>				
Dust suppression implemented.	5	-	Compliant	Although dust suppression wasn't needed at the day of the inspection, site management confirmed that it is implemented when needed.

**ENVIRONMENTAL PERFORMANCE ASSESSMENT  
TIERKLOOF SAND MINE 2**

DESCRIPTION	COMPLIANCE SCORE	NON-COMPLIANCE SCORE	STATUS	COMMENTS
Footprint of cleared areas minimised.	5	-	Compliant	As mentioned earlier, it can be confirmed that at the time of inspection the mining extent is still below the 1hactares and therefore no rehabilitation has been necessary to date.
Five Mining strips rehabilitated as soon as mining is complete. (1hactare each)	N/A	-	-	
Speed of vehicles controlled to lessen dust generation and road deterioration	4	-	Partially Compliant	Although it was clear that the speed limits are adhered to the client was instructed to ensure that the signage boards are erected and placed where visible.
Activities reduced during strong winds.	5	-	Compliant	-
Noise control implemented (no loud music).	5	-	Compliant	-
Mining equipment serviced regularly to ensure noise emissions are minimized	5	-	Compliant	-
Operation hours restricted as stipulated in the EMPR.	5	-	Compliant	The Applicant, and the sand mining operation will take place during normal working hours (no work on Sundays).
<b>WASTE MANAGEMENT (EMPR PG 44, 46, 94 - 64):</b>				
Workers provided with environmental awareness training.	5	-	Compliant	Proof of Awareness training included in photo report.
Waste collected in sealable containers.	5	-	Compliant	General waste is removed to the Permit Holders offices in Clanwilliam where it is incorporated into the municipal waste removal system. Very little waste was generated to date.
Site free of day-to-day litter.	5	-	Compliant	Site was neat and clean.
General waste dumped at a recognised landfill site.	5	-	Compliant	General waste is removed to the Permit Holders offices in Clanwilliam where it is incorporated into the municipal waste removal system. Very little waste was generated to date.
Hazardous waste removed by a registered waste handling contractor.	N/A	-	-	No hazardous waste has been generated at the site.
Spillages not disposed of into the environment, ditches, drains or water courses.	N/A	-	-	Not applicable as no spillages occurred during the audit period.
No waste stockpile area allowed outside the boundaries of the mining area.	5	-	Compliant	-

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DESCRIPTION	COMPLIANCE SCORE	NON-COMPLIANCE SCORE	STATUS	COMMENTS
Proper sanitation facilities available to employees.	5	-	Compliant	A chemical toilet is present at the parking area outside of permit area. This area was agreed between permit holder and farm owner. Proof of agreement in photo report. Bastech Hire (Pty) Ltd will be responsible for once a month cleaning.
Chemical toilet secured to the ground.	5	-	Compliant	A photo of the toilet is included in the photo report.
<b>HERITAGE RESOURCES (EMPR PG 43, 60, 96,100,118):</b>				
Archaeological-, heritage and/or cultural remnants protected.	N/A	-	-	No archaeological or cultural remnants were discovered during the audit period.
<b>SOCIO-ECONOMIC MATTERS (EMPR PG 48, 58):</b>				
Complaints register on site.	5	-	Compliant	The complaints register is kept at the site office of the Permit Holder in Clanwilliam, as the mine is on private property and not accessible to the general public. To date no complaints were received.
Notice board (with contact details) erected and maintained at the site entrance.	3	-	Partially Compliant	Notice board for 10219mp to be erected and placed on outside fence, permit holder to remove old permit board.
Mining area rehabilitated to post-mining land use capability.	N/A	-	-	Not yet applicable.
<b>MANAGEMENT OF FUEL AND HAZARDOUS PRODUCTS (EMPR PG 27,136):</b>				
Sealed drip trays used and managed on site.	3	-	Non-Compliant	No drip trays were present at the time of inspection.
Mining equipment mechanically sound without visible oil leaks.	5	-	Compliant	At the time of the inspection, this appeared to be true.
Regular maintenance of mine equipment done in Clanwilliam at the Permit Holders offices.	5	-	Compliant	-
Complete oil spill kit/absorbent material available on site.	5	-	Compliant	-
Hazardous material stored within a bunded area (110% capacity).	N/A	-	-	No hazardous material is stored within the mining area.



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DESCRIPTION	COMPLIANCE SCORE	NON-COMPLIANCE SCORE	STATUS	COMMENTS
Management of fuel and oil spills	5	-	Compliant	At the time of the inspection no oil/fuel spills were noted.
<b>FIRE MANAGEMENT (EMPR PG 197):</b>				
Firefighting equipment available on-site (2x rubber beaters and 1 fire extinguisher).	5	-	Compliant	Although the Permit Holder does not have fire beaters, the machinery all have fire extinguishers.
Fires contained to facilities specially constructed for the purpose	N/A	-	-	No open fires are allowed at the mine.
Employees trained in firefighting	5	-	Compliant	One employee is fully trained.
Major fires or explosions reported.	N/A	-	-	No fire/explosion occurred during the audit period.
<b>MINE &amp; EQUIPMENT MANAGEMENT (EMPR PG 58):</b>				
Mining area demarcated with visible beacons	3	-	Partially Compliant	At the time of inspection only two beacons were visible. Client will ensure the other two beacons are placed and visible.
Is the contractor implementing good visual and housekeeping standards.	5	-	Compliant	At the time of the inspection the site was found to be very neat and well managed.
Mining contained to designated mining area.	5	-	Compliant	At the time of the inspection mining was contained to the approved boundaries. Mining currently takes place at a maximum of three times per week. The parking area and toilet is currently outside of the permit area on an area as per agreement between the permit holder and farm owner.
Unnecessary surface disturbance avoided.	5	-	Compliant	-
Incident register available on site.	5	-	Compliant	The incident register is kept at the Permit Holders offices in Clanwilliam.
<b>ACCESS ROADS, VEHICLES &amp; TRANSPORTING OF MATERIAL (EMPR PG 24,50,97):</b>				
Access road maintained.	5	-	Compliant	-
Movement of project related vehicles and machinery restricted to the approved mining area. No crisscrossing through undisturbed areas.	5	-	Compliant	-

**ENVIRONMENTAL PERFORMANCE ASSESSMENT  
TIERKLOOF SAND MINE 2**

DESCRIPTION	COMPLIANCE SCORE	NON-COMPLIANCE SCORE	STATUS	COMMENTS
Sand transported from site by the Permit Holder. No clients collecting directly from the mine.	5	-	Compliant	-
Speed limit enforced (20 km/h) along the access road.	3	-	Non-Compliant	Speed limit is enforced. However, to ensure this is priority permit holder must erect notice boards.
<b>EMPLOYEE AND SAFETY MANAGEMENT (EMPR PG 64):</b>				
Workers inducted and informed of EMP conditions	5	-	Compliant	All site workers did receive induction training and signed document included in photo report.
Proof of training available	5	-	Compliant	-
Workers provided with PPE	5	-	Compliant	-
Are there signs present, indicating the mining site and speed restrictions.	5	-	Compliant	-
Effective access control to prevent unauthorised entry.	5	-	Compliant	There are three lockable gates leading towards permit area.
<b>EA SPECIFIC CONDITIONS (NOT YET INCLUDED EARLIER):</b>				
Mining activities conducted in accordance with EMP and layout.	5	-	Compliant	Although the mining direction and access road has changed the strip mining method is still in place and the access road currently used was approved by department of transport and does not trigger a listed activity.
After mining the final slopes/levels must be to the level of the surrounding natural ground level.	N/A	-	-	To be implemented during the decommissioning / closure phase.
No mining may occur within 40 m of the bank of the stream.	5	-	Compliant	-
Uncontaminated storm water must be prevented from coming into contact with the waste and must be diverted away from the storage site and mining area.	5	-	Compliant	



**ENVIRONMENTAL PERFORMANCE ASSESSMENT  
TIERKLOOF SAND MINE 2**

DESCRIPTION	COMPLIANCE SCORE	NON-COMPLIANCE SCORE	STATUS	COMMENTS
The Holder of EA must appoint an ECO, provide his name and contact detail to the RM and ensure that the ECO is always available on site.	5	-	Compliant	ECO appointment and Enactment letter sent to Dmre 24 January 2022.
Annual EAR (environmental audit report) submitted to DMR.	5	-	Compliant	This report is the 1 <sup>st</sup> report and will be submitted in February 2022 with the renewal and financial reports.
Annually assess the environmental liabilities of the operation regarding the financial provision for rehabilitation.	5	-	Compliant	
Notify DMR within 24 hours of any incident occurring.	N/A	-	-	No incidents to date.
Mining area fenced off with lockable gates.	5	-	Compliant	There are at least 3 lockable gates.
Water proof, durable and legible notices in at least 3 official languages displayed at the entrance to the site.	3	-	Partially Compliant	Permit holder to place notice for Grondwerke.
Emergency preparedness plan available.	5	-	Compliant	
Access Road	5	-	Compliant	As per the SANRAL approval attached the permit holder is using the existing access road.





## **COMMENTS OR COMPLAINTS RECEIVED FROM I&AP' S**

**(APPENDIX 7 SUB-REGULATION 3(G) & (J)):**

No written environmental related complaints were received during the audit period.

## **AUDITING OF EA, EMPR AND REPORTING THEREOF**

**(REGULATION 34):**

<b>Date of previous EAR/EPA:</b>	1 <sup>st</sup> EPA – February 2022
<b>Proof of submission to DMRE available:</b>	1 <sup>st</sup> EPA – February 2022
<b>EAR/EPA compiled by independent person with environmental auditing expertise:</b>	The 2022 EPA was compiled by Mrs. M Saal from Greenmined Environmental (Pty) Ltd.
<b>Potential and registered I&amp;AP's notified within 7 days of the submission date, and report available on publicly accessible website</b>	The EPA is available at the Permit Holders office in Clanwilliam.

## **GENERAL REPORT**

Compliance of the mining site with the EMPR (2019) was reviewed during the site assessment. The mining area recorded a compliance score of 98.15% for the audit period .

The initial road as per EA approved by Dmre was not approved by SANRAL. Proof letter included in Photo report. The permit holder is therefore using the initial access road as approved for the now closed permit 10111MI which is based on the same Farm. The existing road therefore does not trigger any listing notices.

The below image was the initial mining route suggested in the FBAR. However, it should be noted that due to the change of access road it was found to be more practical to start from the top closer to the access road currently in use. Mining will therefore work from block 5-1.

## ENVIRONMENTAL PERFORMANCE ASSESSMENT TIERKLOOF SAND MINE 2



Figure 1: Image taken from the Basic Assessment Report, 2019 showing the locality and strip mining direction of the footprint area and existing access road.



Figure 2: Image based on the Basic Assessment Report, 2019


The image above shows the currently used access road based on the outcome of SANRAL decision. The mining direction have therefore been changed to suite the site structure from block 5 towards block 1.

In terms of Section 43(4) of the Mineral and Petroleum Resources Development Act, 2002 (as amended) (hereinafter referred to as the “MPRDA”), an application for a closure certificate must be made to the Regional Manager in whose region the land in question is situated within 180 days of the occurrence of the lapsing, abandonment, cancellation, cessation, relinquishment or completion contemplated in subsection 3. Therefore, the 180-day period as contained in Section 43(4) of the MPRDA already commenced upon the lapsing of the 3<sup>rd</sup> renewal period.

### Waste Management:

- General waste to be removed from site to permit holder office from where it is then removed to a recognized landfill site. To date no waste was removed from site and therefore no documentation proof is included.
- Chemical toilet will be cleaned by Bastech Pty Ltd. To date no cleaning has been deemed necessary.

### **DOCUMENT CHECKLIST:**

 Environmental Authorisation	-	Present
 Mining Permit	-	Present

**ENVIRONMENTAL PERFORMANCE ASSESSMENT  
TIERKLOOF SAND MINE 2**

<ul style="list-style-type: none"> <li>✓ Approved EMPR - Present</li> <li>✓ Regulation 2(2) Mine Plan - Present</li> <li>✓ Financial Provision Calculation - Present</li> <li>✓ Environmental Assessment Report - Present</li> <li>✓ Incidents register - Present</li> <li>✓ Complaints Register - Present</li> <li>✓ Environmental Awareness Training - Present as part of the EMPR</li> <li>✓ Emergency Preparedness Plan - Present</li> <li>✓ Waste Registers - Present</li> <li>✓ Environmental Audit Checklist - Present</li> <li>✓ SANRAL approval - Present</li> </ul>
<p><b><u>NEED FOR AMENDMENT OF THE EMPR:</u></b></p> <p>No need was identified for the amendment of the EMPR.</p>
<p><b><u>FINANCIAL PROVISION:</u></b></p> <p>The 2<sup>nd</sup> calculation was completed in January 2023 as the Tierkloof Sand Mine 2 was reviewed as part of this year's (2023) annual environmental audit and the financial provision amount came to R 5 161 .47.</p> <p>The 2023 financial provision does not exceed the value of the guarantee in place with the DMRE (R 70 000), and therefore the permit holder does not have to provide a shortfall. The financial provision calculation will be submitted to DMRE with this EAR/EPA.</p> <p>The permit holder has a bank guarantee to the value of R 70 000 with the DMRE.</p>

**ECO SIGNATURE**

NAME:	SIGNATURE:	DATE:
Murchellin Saal		19 January 2023



# PHOTOGRAPHS

## ACCESS ROAD



## SIGNAGE BOARDS





# ENVIRONMENTAL PERFORMANCE ASSESSMENT TIERKLOOF SAND MINE 2

## MINING AREA



## MINING EQUIPMENT

**ENVIRONMENTAL PERFORMANCE ASSESSMENT  
TIERKLOOF SAND MINE 2**



**No GO AREAS**



**CHEMICAL TOILET AND WASTE BINS**



**PARKING AREA OUTSIDE OF PERMIT AS PER  
AGREEMENT BETWEEN FARM OWNER AND  
PERMIT HOLDER**







**mineral resources**  
 Department:  
 Mineral Resources  
 REPUBLIC OF SOUTH AFRICA

**MINING PERMIT**

(Issued in terms of section 27 of the Mineral and Petroleum Resources Development Act, 2002 (Act No. 28 of 2002))

DEPT. OF MINERAL RESOURCES  
 10 MAR 2014  
 DEPT. OF MINERAL RESOURCES  
 Office Stamp  
 Office Stamp

Permit No.  Region   
 Office reference

Permission is hereby granted under and subject to the provisions of the Mineral and Petroleum Resources Development Act, 2002 to (full name)

Identify number in case of a natural person

In the case of a person other than a sole person please indicate:  
 Co  Cc  Partnership/Joint venture  Other\*

\* If other, specify

Registration number of Co. or Cc.

Tax mine for (name of mine)

On (full name of farm and subdivision, registration division and no.)  Portion of Remaining Extent as Portion 2 of Farm 199

situated in the District of   
 as indicated on the attached plan No.  signed by the Regional Manager on

Unless this permit is suspended, cancelled, abandoned or lapses, it shall be valid for a period (not more than two years) which shall extend from the date of issuing to  and may be renewed for three periods each which may not exceed one year.

This permit does not exempt the holder from the requirements of any provision of any other law or from any restrictive provisions or conditions contained in the title deed of the land concerned, nor does it encroach upon the rights of any person who may have an interest in the land concerned.

Signed at  this  day of  2020

MINISTER OF MINERAL RESOURCES

**Mining Permit**



**mineral resources**  
 Department:  
 Mineral Resources  
 REPUBLIC OF SOUTH AFRICA

Private Bag X 9, Rogge Bay, 8012, Tel: 021 427 1000, Fax: 021 427 1046  
 9<sup>th</sup> floor Atterbury House, 9 Cnr Riebeeck and Lower Burg Street, Cape Town, 8001

Enquiries: Ms. Portia Seaba Email Address: Portia.Seaba@dmr.gov.za  
 Ref: WC30/5/1/3/2/10219MP  
 Sub-Directorate: Mine Environmental Management

**BY HAND**

Smith Grondwerke (Pty) Ltd  
 P O Box 249  
 CLANWILLIAM  
 8135

Attention : Mr. T.G Smith  
 Cell : 082 895 6923  
 Tel : 027 482 1701  
 Email : [grondwerke@smiting.co.za](mailto:grondwerke@smiting.co.za)

Dear Sir/Madam

**ENVIRONMENTAL AUTHORISATION IN TERMS OF THE NATIONAL ENVIRONMENTAL MANAGEMENT ACT, 1998 (NEMA) AS AMENDED, AND THE ENVIRONMENTAL IMPACT ASSESSMENT (EIA) REGULATIONS, 2014 AS AMENDED FOR MINING PERMIT APPLICATION IN RESPECT OF SAND MINING ACTIVITIES ON PORTION OF REMAINING EXTENT OF PORTION 2 OF FARM 199 IN THE MAGISTERIAL DISTRICT OF CLANWILLIAM: WESTERN CAPE REGION**


With reference to the above mentioned application, please be advised that the Department has decided to grant environmental authorisation in terms of the National Environmental Management Act (Act 107 of 1998). The environmental authorisation and reasons for the decision are attached herewith.

In terms of regulation 4(2) of the Environmental Impact Assessment Regulations of 2014, you are instructed to notify all registered interested and affected parties, in writing within 14 (Fourteen) calendar days, from the date of the Department's decision in respect of your application and the relevant provisions regarding the lodgement of appeal must be provided for in terms of the National Appeal Regulations of 2014.

**Environmental Authorization**



## ENVIRONMENTAL PERFORMANCE ASSESSMENT TIERKLOOF SAND MINE 2



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Wetland: in a letterbox / in your reply please quote  
Verreëlig / Release: Plans 189  
Navors / Grondas: A heading

**MUNISIPALITEIT  
MUNICIPALITY  
UMASIPALA**

0271 482 6800  
0271 482 1933  
m@umaspala.co.za  
www.umaspala.co.za  
101 Prinsloo/Prinsloo Dae 72  
Clanwilliam  
6708

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**Registered Mail** via email: admin@iplan.co.za

12 August 2020

TPLAN Consultants  
106 Grey Street  
Strom  
7140

**APPLICATION FOR TEMPORARY DEPARTURE: PORTION 2 OF THE FARM 199 CLANWILLIAM**

Your application with reference (11032) in the above regard, received on 30-01-2020, refers.

The delegated authority on 12-07-2020 approved in terms of Section 60 of the Oederberg Municipality: By-Law on Municipal Land Use Planning (15-03-2019), the above-mentioned application in the following manner:


- The temporary departure for Portion 2 of the Farm 199 Clanwilliam to permit the establishment and operation of a sand mine on agricultural land.

This approval is subject to conditions, see attached **Appendix A**.

You are hereby informed of your right to appeal to the Appeal Authority in terms of section 76(2) of the said legislation. Kindly note that no appeal right exists in terms of Section 62 of the Local Government Municipal Systems Act, No 32 of 2000.

Kindly also note where applicable, the above approval does not guarantee approval of any related building plan application in terms of the National Building Regulations and Building Standards Act, No 103 of 1977 and that building work may therefore only commence once such plans are formally passed.

Yours sincerely



for DIRECTOR: INTEGRATED DEVELOPMENT SERVICES




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Rig alle korrespondensie aan die Munisipale Bestuurder / Address all correspondence to the Municipal Manager

Page 1 of 1

**Landuse approval / Temporary Departure**

## ENVIRONMENTAL PERFORMANCE ASSESSMENT TIERKLOOF SAND MINE 2

<div style="text-align: center;"> <p><b>SMIT GRONDWERKE (Pty) Ltd</b></p> <p><b>SAND MINE, ON A PORTION OF REMAINING EXTENT OF PORTION 2 OF THE FARM 1999RD, CLANWILLIAM, WESTERN CAPE</b></p> <p><b>EMERGENCY PREPAREDNESS PLAN</b></p>  </div> <table border="1" style="width: 100%; margin: 10px auto; border-collapse: collapse;"> <tr> <td style="padding: 2px;">DMR REFERENCE NUMBER:</td> <td style="padding: 2px; text-align: center;">WC 30-5-1-3-2-10218 MP</td> </tr> <tr> <td style="padding: 2px;">VERSION:</td> <td style="padding: 2px; text-align: center;">JANUARY 2022</td> </tr> </table> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div style="width: 45%;"> <p><b>PREPARED FOR:</b></p> <p>Smit Grondwerke (Pty) Ltd            Contact Person: Mr GAJJ Smit            Tel: 027 482 1701            Fax: 027 482 1271            Email: <a href="mailto:grondwerke@smiting.co.za">grondwerke@smiting.co.za</a>            Postal Address:            P.O. Box 249  <b>Claremont</b>            8135</p> </div> <div style="width: 45%;"> <p><b>PREPARED BY:</b></p> <p>Greenmined Environmental            Auditor: Mrs M. Saal            Tel: 021 851 2673            Cell: 076 792 6327            Fax: 086 546 0579            Postal Address:            Suite 62            Private Bag X15            Somerset West            7129</p>  </div> </div>	DMR REFERENCE NUMBER:	WC 30-5-1-3-2-10218 MP	VERSION:	JANUARY 2022	<div style="display: flex; justify-content: space-between; align-items: flex-start;">  <div style="text-align: right;"> <p>Ref No.: WC 30-5-1-3-2-10219 MP</p> </div> </div> <div style="margin-top: 20px;"> <p>Department of Mineral Resources            Atterbury House            Cnr Riebeeck Street and Lower Burg Street            Cape Town            Western Cape</p> <p style="text-align: right;">25 January 2022</p> <p>Attention: Ms Sonia Methodini</p> </div> <p style="margin-top: 20px;"><b>LETTER OF ENACTMENT FOR MINING PERMIT WC 30-5-1-3-2-10219 MP ON A PORTION OF REMAINING EXTENT OF PORTION 2 OF THE FARM 1999RD, CLANWILLIAM, WESTERN CAPE PROVINCE.</b></p> <p>This letter serves to inform the Department of Mineral Resources that the applicant, Smit Grondwerke (Pty) Ltd started the operation in October 2021.</p> <p>The holder of the sand mining permit appointed Greenmined Environmental (Pty) Ltd to inform the DMR that the on-site ECO of the operation, in accordance with clause 4.10 of the Environmental Authorization, is Mr TG Smit with ID number 8009105173083.</p> <p><b>Contact Details:</b></p> <ul style="list-style-type: none"> <li>• Tel: 027 482 1701</li> <li>• Cell: 082 895 6923</li> <li>• Email: <a href="mailto:debiteure@smiting.co.za">debiteure@smiting.co.za</a></li> </ul> <p>Annual inspections and reports will be submitted to the DMR and will be done by Greenmined Environmental in accordance with the Environmental Authorization.</p> <p><b>Consultant details:</b></p> <ul style="list-style-type: none"> <li>• Mrs. Murchellin Saal</li> <li>• Cell: 076 792 6327</li> <li>• Email: <a href="mailto:Murchellin.s@greenmined.co.za">Murchellin.s@greenmined.co.za</a></li> </ul> <p>Should the above information need to be submitted to any other entity or party, kindly provide writer hereof with the necessary details.</p> <p style="text-align: center; border-top: 1px solid black; padding-top: 5px;"><b>the goal isn't to live forever, it is to protect a planet that will</b></p> <p style="text-align: center; font-size: small; margin-top: 10px;">Greenmined Environmental (Pty) Ltd (Tel: 021 851 2673   Fax: 086 546 0679            Unit M01, Office No 38, AEOI Site, Baker Square, Paardevlei, Die Beers Avenue, Somerset West, 7130            Postnet Suite 82, Private Bag x16, Somerset West, 7129            Directors: G Smit; R.L. Sheddook; C Weideman   Reg No: 2012/066686/07   VAT No. 4040288032</p>
DMR REFERENCE NUMBER:	WC 30-5-1-3-2-10218 MP				
VERSION:	JANUARY 2022				
<b>Emergency Preparedness Plan</b>	<b>Enactment and ECO letter</b>				

## ENVIRONMENTAL PERFORMANCE ASSESSMENT TIERKLOOF SAND MINE 2

<p style="text-align: center;">SMIT GRONDWERKE (PTY) LTD, ON A PORTION OF REMAINING EXTENT OF PORTION 2 OF THE FARM 199RD, CLANWILLIAM, WESTERN CAPE PROVINCE</p> <p style="text-align: center;"><b>ENVIRONMENTAL AUDIT CHECKLIST</b></p> <table border="1" style="margin: 10px auto; border-collapse: collapse;"> <tr> <td style="padding: 2px;">DMR REFERENCE NUMBER:</td> <td style="padding: 2px;">WC 30/S1/3/2/10219 MP</td> </tr> <tr> <td style="padding: 2px;">AUDIT PERIOD:</td> <td style="padding: 2px;"></td> </tr> </table> <p style="margin-top: 10px;"><b>PREPARED BY:</b></p> <p style="font-size: small;">Smit Grondwerke (Pty) Ltd Contact Person: Mr TG Smit Tel No: 027 482 1701 Cell No: 082 895 6923 Email: deb@grw.co.za</p>	DMR REFERENCE NUMBER:	WC 30/S1/3/2/10219 MP	AUDIT PERIOD:		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="5" style="text-align: center; padding: 5px;"><u>GENERAL WASTE DISPOSAL REGISTER</u></th> </tr> <tr> <td colspan="5" style="text-align: center; padding: 5px;">SAND MINE, ON A PORTION OF REMAINING EXTENT OF PORTION 2 OF THE FARM 199RD, C WESTERN CAPE</td> </tr> <tr> <th style="width: 15%;">DISPOSAL DATE</th> <th style="width: 20%;">DISPOSAL SITE</th> <th style="width: 15%;">QUANTITY DISPOSED</th> <th style="width: 20%;">WASTE TYPE</th> <th style="width: 30%;">RECEIPT</th> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="5" style="text-align: center; padding: 5px;"><u>HAZARDOUS WASTE DISPOSAL REGISTER</u></th> </tr> <tr> <td colspan="5" style="text-align: center; padding: 5px;">SAND MINE, ON A PORTION OF REMAINING EXTENT OF PORTION 2 OF THE FARM 199RD, C WESTERN CAPE</td> </tr> <tr> <th style="width: 15%;">DISPOSAL DATE</th> <th style="width: 20%;">DISPOSAL SITE</th> <th style="width: 15%;">QUANTITY DISPOSED</th> <th style="width: 20%;">WASTE TYPE</th> <th style="width: 30%;">RECEIPT</th> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table>	<u>GENERAL WASTE DISPOSAL REGISTER</u>					SAND MINE, ON A PORTION OF REMAINING EXTENT OF PORTION 2 OF THE FARM 199RD, C WESTERN CAPE					DISPOSAL DATE	DISPOSAL SITE	QUANTITY DISPOSED	WASTE TYPE	RECEIPT																										<u>HAZARDOUS WASTE DISPOSAL REGISTER</u>					SAND MINE, ON A PORTION OF REMAINING EXTENT OF PORTION 2 OF THE FARM 199RD, C WESTERN CAPE					DISPOSAL DATE	DISPOSAL SITE	QUANTITY DISPOSED	WASTE TYPE	RECEIPT																									
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## ENVIRONMENTAL PERFORMANCE ASSESSMENT TIERKLOOF SAND MINE 2

<b>CONFIRMATION OF CONTRACTORS AWARENESS OF EMP</b> MINING PERMIT TO MINE 4.9 ON A PORTION OF REMAINING EXTENT OF PORTION 2 OF THE FARM 199RD, CLAN CAPE PROVINCE			<p style="text-align: center;">10 FEBRUARY 2022</p> <p style="text-align: center;">REFERENCE NUMBER: WC/30/5/1/3/2/10219MP</p> <p>To Whom this may concern:</p> <p>We, Gerrit Erasmus &amp; Hester Susanna Smith the landowners of remainder of portion 2 of the farm 199, Clanwilliam district, Western Cape province.</p> <p>I hereby want to bring it to your attention that the loading zone shown in attached picture is part of a potato plantation circle that will be planted after mining term has been completed, thereof Smit Grondwerke(PTY) LTD is allowed to park and load at this space. Any thru paths on plantation circles are allowed and won't disturb any aspect of our agricultural ground. This is part of our agricultural development.</p> <p>Landowner: <u>Gerrit Erasmus Smith</u> (Name in print)  <u>Hester Susanna Smith</u></p> <p>Signature: <u></u>      <u></u></p> <p>Date: <u>11 / 02 / 2022</u></p>
NAME OF PERSON	INDUCTION MEETING	DATE OF MEETING	
Bernard Smit	Environmental Induction	28 Januarie 2022	
Chrisjan Nel	Environmental Induction	28 Januarie 2022	
Eugene Fortuin	Environmental Induction	28 Januarie 2022	

**Confirmation of Contractors Awareness of EMP and Environmental Training**

**Agreement between Farm owner and Permit holder (11/02/2022)**