

**KIMBERLEY QUARRY**  
**PORTION 39 OF THE FARM SPIJTFONTEIN NO 122,**  
**KIMBERLEY, NORTHERN CAPE PROVINCE**

**ENVIRONMENTAL PERFORMANCE ASSESSMENT /**  
**ENVIRONMENTAL AUDIT REPORT**

<b>DMRE REFERENCE NUMBER:</b>	<b>NC 30/5/1/2/2/0287 MR</b>
<b>AUDIT PERIOD:</b>	<b>April 2022 – May 2024</b>

**PREPARED FOR:**

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**PREPARED BY:**

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**1. PROJECT SPECIFIC DETAIL**

ITEM	MINING RIGHT HOLDER
<b>Company Name</b>	OMV Kimberley Mining (Pty) Ltd
<b>Contact Person</b>	Mr. Kamohelo Mofokeng
<b>Tel Number</b>	053 807 2012
<b>Cell Number</b>	083 286 1773
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ITEM	CONSULTANT DETAIL
<b>Company Name</b>	Greenmined Environmental (Pty) Ltd
<b>Contact Person</b>	Ms. Christine Fouché
<b>Tel Number</b>	021 851 2673
<b>Cell Number</b>	082 811 8514
<b>E-mail Address</b>	<a href="mailto:christine.f@greenmined.co.za">christine.f@greenmined.co.za</a>
<b>Postal Address</b>	Postnet Suite 62 Private Bag x15 Somerset West 7129
ITEM	LOCATION AND AREA INFORMATION
<b>Site Name</b>	Kimberley Quarry
<b>Property Description</b>	Portion 39 of the farm Spijtfontein No 122
<b>Location</b>	Kimberley Quarry is located ±8.6km to the south of Kimberley, adjacent to the N12 to Hopetown. The site is situated on a portion of Portion 39 of the farm Spijt Fontein 122.
<b>Size of Mining Area</b>	370.2447 ha



# ENVIRONMENTAL PERFORMANCE ASSESSMENT / ENVIRONMENTAL AUDIT REPORT – KIMBERLEY QUARRY

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**ENVIRONMENTAL PERFORMANCE ASSESSMENT / ENVIRONMENTAL AUDIT  
REPORT – KIMBERLEY QUARRY**


**2. ENVIRONMENTAL AUDIT REPORT**

**PROJECT DETAIL**

<b>Right Number:</b>	NC 30/5/1/2/2/0287 MR	<b>Date of commencement:</b>	The mine was acquired in 2016
<b>Site name:</b>	Kimberley Quarry	<b>Inspection date:</b>	27 May 2024
<b>Right Holder:</b>	OMV Kimberley Mining (Pty) Ltd	<b>Other authorisations:</b>	Water Use Authorization No: 25057704
<b>Report number:</b>	01		

**DETAIL OF AUDITOR**

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

<b>ECO:</b>	Christine Fouché
<b>Expertise:</b>	Ms Fouché has a Diploma in Nature Conservation and a BSc in Botany and Zoology with nineteen years experience in environmental impact assessments and compliance monitoring in South Africa. Ms Fouché is a registered Environmental Assessment Practitioner (registration no: 2019/1003) with EAPASA (Environmental Assessment Practitioners Association of South Africa) since 2019.
<b>Declaration of independence:</b>	<p>I, Christine Fouche, in my capacity as environmental control officer 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).</li> </ul> <p align="center">             Christine Fouche         </p> <p align="right">Date: 03 July 2024</p>



## ENVIRONMENTAL PERFORMANCE ASSESSMENT / ENVIRONMENTAL AUDIT REPORT – KIMBERLEY QUARRY

### **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). The EAR focussed specifically on Section 5: *Environmental Objectives and Specific Goals*, Section 6: *Outline of the Implementation Program*, and Section 7 *Action Plans* of the 2011 EMPR.

#### **OBJECTIVE:**

The objective of the environmental audit report (EAR) is to evaluate compliance of the operational activities with the 2011 Environmental Management Programme Report (EMPR) approved by the Department of Mineral Resources and Energy. To evaluate the effectiveness of the EMPR, identify shortcomings, and discern the need for changes to the environmental management programmes.

#### **INSPECTED AREAS:**

The inspection included an assessment of the following areas:

- Offices, workshops and storage areas;
- Wash bay and oil sump;
- Diesel depot;
- New and old quarries;
- Processing area;
- Stockpile areas and overburden dumps;
- Old asphalt yard / salvage yard;
- Old B&E International (Pty) Ltd yard

To establish the environmental compliance assessment of the operation, the mining site was inspected on foot and by vehicles by the Environmental Control Officer, Christine Fouché, from Greenmined Environmental (Pty) Ltd 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 provided by site management. The findings of the previous environmental performance assessment (2022) were also considered. This audit did not consider health and safety aspects, was not intended as a legal assessment, nor was the aspects of the Social and Labour Plan and/or Mine Works Programme reviewed. The block yard and old ready-mix plant were excluded from the scope of this audit, nor was the northern part of the farm/mining footprint assessed as no mining activities take place here.

**LOCATION**

<b>Site location:</b>	Kimberley Quarry is located ±8.6km to the south of Kimberley, adjacent to the N12 to Hopetown. The site is situated on a portion of Portion 39 of the farm Spijt Fontein 122.																																																																	
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**ENVIRONMENTAL PERFORMANCE ASSESSMENT / ENVIRONMENTAL AUDIT  
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	K	28° 48' 51.2237"	24° 42' 43.5562"
	L	28° 48' 51.0897"	24° 42' 43.0204"
	M	28° 47' 52.8938"	24° 43' 02.3234"

**PROJECT DESCRIPTION**

Kimberley Quarry is an opencast mine, where dolerite is mined. The stone crushing operation has been in existence for more than forty years.

The mineral deposit within the Mining Right area is dolerite, extracted by surface mining methods. Rock is loosened by conventional drilling and blasting methods, with oversized boulders being subjected to secondary breaking or blasting. The muck pile (blasted rock) is removed from the pit using excavators and TMM's5 and either deposited directly into the jaw crusher or deposited on the Run of Mine (RoM) stockpile for later processing. Various products are then produced from the secondary crusher and screens, and conveyed to the product stockpiles, ready for dispatch (Whittington-Jones 2022).

Historically a block making plant (Blockpave), ready mix plant (OMV) and asphalt plant (National Asphalt) were established within the footprint of the mining area. Presently (2024) only the block plant is still operational, with the ready-mix yard vacated and the footprint of the asphalt plant used as a salvage yard by mine management. B&E International (Pty) Ltd also established a temporary crushing and screening yard at the mine.

**SITE CONDITIONS**

Sunny and dry windless day.

**REPORTABLE ENVIRONMENTAL INCIDENTS**

<b>Incident date:</b>	The quarry keeps a register of the incidents that took place during the audit period.
<b>Incident no:</b>	
<b>Incident:</b>	
<b>How addressed:</b>	
<b>When addressed:</b>	



**ENVIRONMENTAL PERFORMANCE ASSESSMENT / ENVIRONMENTAL AUDIT  
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**ADOPTED METHODOLOGY**  
**(APPENDIX 7 SUB-REGULATION 3(D)):**

<b>COMPLIANCE SCORE</b>	<b>DESCRIPTION</b>
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

<b>NON-COMPLIANCE SCORE</b>	<b>DESCRIPTION</b>
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



**INSPECTION ASPECTS**

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)	5	-	Compliant	The competent authority deems the approved 2011 EMPR and MR of the quarry compatible with an Environmental Authorisation in terms of NEMA, 1998 and the EIA Regulations, 2014 (as amended).
Copy of the EA available on site	N/A	-	-	
Mineral and Petroleum Resources Development Act, 2002 (Act No 28 of 2002)	5	-	Compliant	-
Mining right available on site	5	-	Compliant	-
Mine plan annually reviewed	5	-	Compliant	The mine plan was updated in April 2024. The mining boundary appears to be incorrect on the map and needs to be amended to correspond with the approved mining right boundary.
National Environmental Management: Air Quality Act, 2004 (Act No 39 of 2004)	5	-	Compliant	Although the activities at the mine does not require an air emissions licence, the requirements of the NEM:AQA are considered on site.
National Environmental Management: Waste Act, 2008 (Act No 59 of 2008)	5	-	Compliant	The waste of the quarry is managed in accordance with the requirements of the NEM:WA.
National Water Act, 1998 (Act 36 of 1998)	3	3	To be addressed	The mine needs DWS approval for the various water uses on site.
Copy of Water Use Authorisation available on site.	5	-	Compliant	A copy of the water certificate for the borehole is available.
National Environmental Management: Biodiversity Act, 2004 (Act No 10 of 2004) (NEM:BA)	3	3	To be addressed	Kimberley Quarry has a site specific Alien Invasive Species Management Plan and Alien Vegetation Action Plan (July 2023). The alien species map divides the mining area into 9 sections that must be progressively cleaned. See General Report.

DESCRIPTION	COMPLIANCE SCORE	NON-COMPLIANCE SCORE	STATUS	COMMENTS
<b>AIR QUALITY (2011 EMPR PG 66)</b>				
All roads within the study area used by mining machinery and -vehicles will be sprayed with water allying agent daily to ensure that dust is adequately suppressed, if any complaints from land owners/lawful occupants or members of the public are received in this regard.	5	-	Compliant	A water truck sprays the roads and additional water sprayers were added along the roadways to alleviate dust generation. Water is also sprayed on the material in the pit to lessen dust at the crusher plant. Water sprayers were also fitted to the crusher plant. Water used at the quarry and by the water truck is abstracted from the quarry sump, while the rest is municipal water.
A water sprayer will be installed in the primary feeder bin of the plant if any complaints from the public are received in this regard.	5	-	Compliant	
The speed of vehicles used within the mining area will be strictly controlled to avoid excessive dust or the excessive deterioration of the roads being used.	5	-	Compliant	
All cleared, disturbed or exposed areas will be revegetated as soon as possible to prevent the formation of additional sources of dust.	N/A	-	-	No cleared, disturbed or exposed areas were identified that can be revegetated, as most of these areas are still in use.
If any complaints regarding dust pollution are received from the public or a state department a fallout and nuisance dust monitoring study will be conducted. The results of this study will be compiled into monthly reports and forwarded to the Director of Health and Safety, Department of Mineral Resources, Kimberley.	1	3	To be addressed	<ul style="list-style-type: none"> <li>Fallout dust monitoring must be implemented at the quarry. Especially as there has been dust related complaints from the public.</li> <li>The mine must also add a complaints register to the site documents where complaints can be formally entered, and proof of rectification can be noted.</li> </ul>
If it is determined that the mine is likely to cease mining operations within a period of 23 years management will promptly notify the Minister of Environmental Affairs and Tourism in writing of (a) the likely cessation of the mining operation and (b)	N/A	-	-	This requirement is deemed outdated and should be amended if the EMPR is updated. Mine management is in constant discussions with the DMRE who is aware of the activities on site.

DESCRIPTION	COMPLIANCE SCORE	NON-COMPLIANCE SCORE	STATUS	COMMENTS
of the plans that are in place or in contemplation for the rehabilitation of the area.				
<b>SURFACE WATER (2011 EMPR PG 69)</b>				
The necessary authorization has been obtained from the Department of Water Affairs and Forestry for all actions to be performed which requires such authorization.	1	-	To be addressed	The water use authorisation available on site is in the name of Oranje Mynbou en Vervoer Maatskappy (Pty) Ltd and allows the taking of water from the borehole. The water use is also stipulated as "Agriculture". Kimberley Quarry therefore does not have DWS authorisation for at least the taking and storage of water in the quarry pit, the irrigation of waste water from the last chamber of the oil sump, nor the use of water for dust suppression. The mine must apply for authorisation of all the relevant water uses at the DWS.
Vehicle repairs will only take place within the maintenance/farmstead area for vehicles. Repairs within open mining pits will be limited to emergency breakdowns with drip trays.	5	-	Compliant	This was true on the day of the audit.
Refueling will only take place in the refueling area. If this is found not to be practical, drip trays will be used whenever refilling takes place outside of this area.	4	3	To be addressed	The diesel bowser must be fitted with a drip tray that can be used with every refuelling event.
During rehabilitation the applicant will endeavor to reconstruct flow patterns in such a way that surface water flow is in accordance with the natural drainage of the area as far as practically possible.	N/A	-	-	Not yet applicable.
<b>GROUND WATER (2011 EMPR PG 73)</b>				
Vehicle and equipment maintenance will only be allowed within the maintenance area if possible.	5	-	Compliant	This was true on the day of the audit.

DESCRIPTION	COMPLIANCE SCORE	NON-COMPLIANCE SCORE	STATUS	COMMENTS
Drip trays will be placed at all points where diesel, oil or hydraulic fuel may drip and in so doing contaminate the soil.	3	3	To be addressed	The use of drip trays must be increased on site as various machinery/equipment were parked without drip trays on the day of the audit.
All efforts will be made to move the broken-down vehicle or piece of equipment to the maintenance area.	3	3	To be addressed	The broken equipment/vehicles at the salvage yard, as well as those parked at the old B&E site must either be removed from site, removed to the maintenance area, or at least fitted with drip trays to prevent soil contamination.
If the vehicle/pieces of equipment cannot be moved the broken parts will firstly be drained of all fluid. The part will then be moved and taken to the maintenance area.	3	3	To be addressed	
No repairs will be allowed outside the maintenance area except for emergencies.	5	-	Compliant	No repairs were taking place outside the maintenance area on the day of the audit.
Equipment used as part of the proposed operation will be adequately maintained to ensure that oil, diesel, grease, or hydraulic fluid does not leak during operation.	3	3	To be addressed	Refer to earlier comment regarding the salvage yard and old B&E site.
Fuel and other petrochemicals will be stored in steel receptacles that comply with SANS standards. An adequate bund wall, 110% of volume for the largest storage receptacle will be provided for oil and diesel areas accommodate any spillage or overflow of these substances. The area inside the bund wall will be lined with an impervious line to prevent infiltration of the fuel into the soil. The latter will be covered by an approved bacterial hydrocarbon digestion agent that is effective in water.	4	3	To be addressed	<ul style="list-style-type: none"> <li>Although the petrochemicals of the mine are stored in banded areas, some of these chemicals were noted at the old B&amp;E site that needs secondary containment. The bund of the used oil tank at the B&amp;E site must also be cleaned.</li> <li>The generators of the mine (at the processing plant) must be placed in bunds, and site management must ensure that all the bund walls at the workshop is sealed and crack free.</li> </ul>

DESCRIPTION	COMPLIANCE SCORE	NON-COMPLIANCE SCORE	STATUS	COMMENTS
<b>NATURAL FLORA (2011 EMPR PG 76)</b>				
No trees or shrubs will be felled or damaged for the purpose of obtaining firewood unless greed by the landowner or rights holder.	5	-	Compliant	Collection of firewood is not allowed on site.
All backfilled pit areas will be seeded with a vegetation seed mix adapted to reflect the local indigenous flora that was present prior to the mining operation if the natural succession of vegetation is unacceptably slow.	N/A	-	-	No excavations were backfilled during the audit period.
If a reasonable assessment indicates that the re-establishment of vegetation is unacceptably slow the soil will be analyzed and any deleterious effects on the soil rising from the mining operation will be corrected.	N/A	-	-	
Branches of invasive tree species e.g. <i>Acacia mellifera</i> will be distributed over rehabilitated seeded areas to protect emerging seedlings to retain soil moisture and prevent soil erosion.	N/A	-	-	No areas where rehabilitated/seeded during the audit period that had to be protected.
Seeded or newly vegetated areas will be protected against grazing and browsing animals for a period of one year after seeding if necessary.	N/A	-	-	
No tree species protected in terms of Section 12 of the National Forest Act, 1998 will be cut, disturbed, damaged or destroyed without a license from the Department of Water Affairs and Forestry.	5	-	Compliant	The mine did not remove any protected trees during the audit period.
Invasive or exotic plant species will be controlled in rehabilitated areas.	N/A	-	-	No rehabilitation took place during the audit period.
Fires will only be allowed in facilities or equipment specifically constructed for this purpose.	5	-	Compliant	-

DESCRIPTION	COMPLIANCE SCORE	NON-COMPLIANCE SCORE	STATUS	COMMENTS
The following signs will be clearly displayed in the vicinity of the fuel and diesel storage receptacles a) Danger, b) No Smoking, c) No fire or open lights.	5	-	Compliant	-
A fire extinguisher in a weatherproof casing will be installed near fuel and diesel storage receptacles.	5	-	Compliant	-
<b>FAUNA (2011 EMPR PG 79)</b>				
A speed limit will be enforced in the mining area	5	-	Compliant	-
No wild or domestic animals will deliberately be killed or disturbed within the boundaries of the study area or surroundings during or as part of the proposed mining operation.	4	3	Addressed	A warthog was snared during the audit period. This was recorded as an incident and all employees received training on the protection of fauna within the mining area.
No snares or traps will be set by the applicant or employees of the applicant for the purpose of killing or hunting any animal species	4	3	Addressed	
Any snares and/or traps found in the study area will be removed and destroyed immediately.	5	-	Compliant	The snare was removed and destroyed.
As soon as a specific excavation is completely worked out it will be backfilled in part as and when it is possible and made safe to a level that prevents animals from falling into depressions	5	-	Compliant	Management commenced with the rehabilitation of a portion of the old quarry pit where oversize rock is used to backfill a section that will no longer be mined. It is believed that the excavations are safe and do provide animals that may wander into the pit/s with an escape route.
Operational pits will have low angle access ramp to provide an escape route for animals.	5	-	Compliant	
All operational pits will be inspected daily for signs of trapped animals. If a trapped animal is found it will be helped to escape immediately. If species diversity does not reflect that of the surrounding non mining area after the closure of operation advice will be sought from the Northern Cape Nature Conservation Service.	5	-	Compliant	-

DESCRIPTION	COMPLIANCE SCORE	NON-COMPLIANCE SCORE	STATUS	COMMENTS
<b>NOISE (2011 EMPR PG 80)</b>				
Noise disturbance that may affect persons lawfully living in the vicinity or neighbors or animals will be kept to a minimum.	5	-	Compliant	The noise levels at the quarry are monitored by a qualified occupational hygienist that reports the findings to the DMRE.
When they equivalent noise exposure at or in any operation where people may travel, or work exceed 85 dB. The holder will take the necessary steps to reduce the noise below this level.	5	-	Compliant	
Hearing protection will be made available to all employees where attenuation cannot be implemented.	5	-	Compliant	-
All vehicles in operation will be in good working order and adhere to the relevant noise requirements in terms of the Road Traffic Act.	5	-	Compliant	This appeared true on the day of the audit.
Every vehicle in operation will be equipped with a silencer and its exhaust system.	5	-	Compliant	Where applicable.
Occupational control blasting activities will form part of the proposed mining operation if it is necessary.	5	-	Compliant	-
Where appropriate lubricants will be applied to ensure that surfaces which interact during mechanical movement do not generate undesirable noise levels	5	-	Compliant	Where applicable.
Safety measures which generate noise such as the reverse gear alarms on large vehicles will be appropriately calibrated or adjusted	5	-	Compliant	-
<b>AESTHETICS (2011 EMPR PG 81)</b>				
Open pits will be subjected to progressive backfilling if possible and made safe.	5	-	In progress	As mentioned earlier, management is busy with the progressive rehabilitation of a section of the old pit.

DESCRIPTION	COMPLIANCE SCORE	NON-COMPLIANCE SCORE	STATUS	COMMENTS
Permanent structures or features that are part of the proposed mining operation will be kept neat and well presented.	5	-	Compliant	The permanent structures at the mine was neatly managed on the day of the audit.
Waste material of any description will be removed from the mining area upon completion of the operation and will be disposed of as a recognized landfill facility.	N/A	-	-	Not yet applicable.
All plant and equipment will be removed from the site upon completion of the mining operation.	N/A	-	-	
<b>TOPOGRAPHY (2011 EMPR PG 82)</b>				
All open pits will be backfilled if and when necessary and made safe as to reflect as far as possible the pre-mining topography of the area.	N/A	-	-	Although progressive rehabilitation is in progress at a section of the old pit, the mine did not yet enter the final closure phase.
All temporary features e.g. plant, containers, and stockpiling will be removed and handled in the prescribed manner during rehabilitation.	N/A	-	-	
<b>SOILS (2011 EMPR PG 83)</b>				
Topsoil will be removed from all areas where physical disturbance of the surface will occur.	5	-	Compliant	Topsoil is removed when the quarry footprint increases. No other natural areas were disturbed/alterd during the audit period where topsoil had to be removed.
Removed topsoil will be stored in a bund wall on the high ground side of the mining area within the boundaries of the mining area.	5	-	Compliant	Although the topsoil is not stored in a bunded area, it is kept separate and safe at the stockpile area.
The maximum height of each topsoil stockpile will be 2.5 m.	5	-	Compliant	-
Stored topsoil will be adequately protected from being eroded or blown away.	5	-	Compliant	-



DESCRIPTION	COMPLIANCE SCORE	NON-COMPLIANCE SCORE	STATUS	COMMENTS
Topsoil will be kept separate from overburden and will not be used for the construction or maintenance of roads.	5	-	Compliant	-
The chemical and physical properties of stored topsoil will be used for rehabilitation purposes and will not be altered introducing foreign material, gravel, rock, rubble, or mining residue to such soil.	N/A	-	-	The mine is still in the process of rehabilitating a section of the old pit, and topsoil has not yet been spread.
When possible, portions of backfill pits will be covered with a final layer of topsoil and seeded with vegetation mix adapted to reflect the local indigenous flora that was present prior to mining operations.	N/A	-	-	
Compacted areas will be ripped with depth of 300 mm during the decommissioning and closure phase of operation to establish a growth medium for plants.	N/A	-	-	
Seeded backfilled areas will be protected against soil erosion by covering such areas with branches of invasive plant species.	N/A	-	-	Not yet applicable.
Erosion control measures will be implemented in backfilled areas were found to be necessary.	N/A	-	-	Not yet applicable.
Rehabilitated areas will be inspected for signs of erosion at regular monthly intervals as well as after every storm event. If signs of erosion are noted remedial action will be taken immediately.	N/A	-	-	
Care will be taken to prevent the spillage of chemicals onto soils or its escape or migration into surrounding soils.	3	3	To be addressed	The hydrocarbon spills noted in the mining area must be cleaned.
Oil grease and hydraulic fluids spills will be cleaned up immediately to the satisfaction of the Regional	3	3	To be addressed	

DESCRIPTION	COMPLIANCE SCORE	NON-COMPLIANCE SCORE	STATUS	COMMENTS
Manager by removing the spillage together with the contaminated soil and disposing of it at a licensed facility.				
Vehicle movement will be confined to established roads as far as it is practical to prevent compaction of soils.	5	-	Compliant	-
<b>LAND CAPABILITY (2011 EMPR PG 85)</b>				
The applicant will attempt to limit all unnecessary surface disturbance.	5	-	Compliant	Mining related disturbance is contained to the southern part of the MR footprint, while the northern part remains undisturbed.
When possible, open pits will be subject to progressive backfilling if material is available and made safe if it cannot be totally backfilled.	5	-	Compliant	In progress at the old pit.
Mining activities will only take place within the designated mining area.	5	-	Compliant	-
Monitoring of the establishment of natural vegetation upon completion of the mining operation will be done once every second year one month after the end of the long rainy season.	N/A	-	-	Not yet applicable.
<b>SENSITIVE LANDSCAPES (2011 EMPR PG 86)</b>				
No graves or sites of historical significance will be destroyed, damaged, altered, exhumed or removed from its original position without a license from the SAHRA.	N/A	-	-	Not applicable as no graves or sites of historical significance were identified in the mining area.
<b>WASTE MATERIAL (2011 EMPR PG 87)</b>				
Proper sanitation facilities will be provided for employees.	5	-	Compliant	-
No person will pollute the workings with feces or urine misuse the facilities provided or	5	-	Compliant	This appeared true on the day of the audit.

DESCRIPTION	COMPLIANCE SCORE	NON-COMPLIANCE SCORE	STATUS	COMMENTS
inappropriately foul the surrounding environment with feces or urine.				
Non-biodegradable refuse such as glass, bottles, plastic bags etc. will be sorted and stored in separate lockable containers at a central point. It will be disposed of at a recognized disposal facility twice a month.	5	-	Compliant	Although the refuse bins are not lockable, all waste is neatly stored on site prior to removal.
Refuse will not be dumped in the vicinity of the mining area.	5	-	Compliant	The mine has proof of safe disposal of all the waste generated at the mine.
Waste material regarding vehicle repairs will be kept in 200 liters steel containers in the maintenance area This material will be disposed of at a recognized disposal facility once a month.	5	-	Compliant	Oilkol removes the used oil and filters from the mine. Proof of safe disposal is available on site.
Hazardous waste generated will be disposed of at recognized facility	5	-	Compliant	Oilkol removes the used oil and filters of the mine, while the mine intends to remediate the contaminated soil on site. See General Report.
<b>TECHNICAL AND MANAGEMENT OPTIONS FOR THE SOCIO-ECONOMIC CONDITIONS OF THE MINING OPERATIONS (2011 EMPR PG 88)</b>				
These aspects of the EMPR relate to health and safety matters that were audited as part of this exercise				
<b>TECHNICAL AND MANAGEMENT OPTIONS FOR THE CULTURAL AND HISTORICAL ASPECTS OF THE MINING OPERATIONS (2011 EMPR PG 92)</b>				
The entire area is viewed as a low intensity archaeological site. All mining will take place at least 100 m from any the determined site, as required by the National Heritage Resources Act.	N/A	-	-	No sensitive site, in terms of the NHRA, was identified on site.
<b>PROCEDURES FOR ENVIRONMENTALLY RELATED EMERGENCIES AND REMEDIATION (2011 EMPR PG 93)</b>				
Emergency preparedness and response.	5	-	Compliant	The site has an emergency preparedness and response plan, and employees receive regular training on emergency aspects.

DESCRIPTION	COMPLIANCE SCORE	NON-COMPLIANCE SCORE	STATUS	COMMENTS
Oil, grease on hydraulic fluid spills.	5	-	Compliant	Hydrocarbon spills are regularly discussed on site (toolbox talks), and training in this regard is done.
Fire.	5	-	Compliant	Kimberley Quarry is a member of the local Fire Association and do regular training with employees on fire management.
<b>ENVIRONMENT OBJECTIVES AND SPECIFIC GOALS (2011 EMPR PG 62)</b>				
<b>ENVIRONMENTAL OBJECTIVES AND SPECIFIC GOALS FOR MINE CLOSURE (2011 EMPR PG 62)</b>				
<u>Objective:</u> The applicant will, for as far as it is reasonably practical, rehabilitate the environment affected by the proposed mining operation to its natural or predetermined state or to a land use with which confirms to the generally accepted principle of sustainable development.	N/A	-	-	Not yet applicable.
<u>Specific Goals:</u> To rehabilitate the area affected by the proposed mining operation to its natural state or state that conforms to the generally accepted principle of sustainable development.	N/A	-	-	
<b>SPECIFIC GOALS REGARDING THE MANAGEMENT OF ANTICIPATED IMPACTS OF THE PROPOSED MINING OPERATION AND THE ENVIRONMENT (2011 EMPR PG 62)</b>				
<u>Air Quality:</u> To control the incidents of unacceptable levels of dust pollution on site.	5	-	Compliant	Dust suppression is implemented on site to alleviate dust pollution.
<u>Surface water:</u> To conserve water and to eliminate the contamination of runoff and sources of surface water.	4	3	To be addressed	All hydrocarbon spills must be cleaned, and the use of drip trays must be intensified on site.
<u>Ground water:</u> To minimize the contamination of groundwater.	4	3	To be addressed	
<u>Natural flora:</u> To establish self-sustaining vegetation units in the rehabilitated areas and to control invasion by exotic and invasive plant species.	N/A	-	-	This needs to be implemented once the areas were rehabilitated.

DESCRIPTION	COMPLIANCE SCORE	NON-COMPLIANCE SCORE	STATUS	COMMENTS
<p><u>Fauna</u>: To re-establish vegetation in cleared areas and therefore a habitat for wildlife.</p> <p>To eliminate poaching, snaring and the extermination of animal species within the boundaries of the study area as well as the surrounding areas.</p>	4	3	Addressed	The snaring and/or poaching of fauna was discussed with all employees during the audit period.
<p><u>Noise</u>: To control the incident of unacceptable noise levels on site.</p>	5	-	Compliant	-
<p><u>Aesthetics</u>: To minimize aesthetic disturbance and to reduce the visual impact of the proposed mining operation through a process of ongoing rehabilitation and reclamation.</p>	5	-	Compliant	Progressive rehabilitation is in progress.
<p><u>Topography</u>: To reduce the potential of surface erosion caused by runoff in excavated and backfilled areas. To ensure the stability and safety of all backfilled excavations and open excavations.</p>	5	-	Compliant	No serious erosion were noted on the day of the audit.
<p><u>Soils</u>: To prevent soil pollution. To limit soil compaction, to curb soil erosion and to reinstate the growth medium able to sustain plant life.</p>	4	3	To be addressed	The soil contamination mentioned earlier must be rectified.
<p><u>Landscape ability</u>: To minimize the reduction of land capability.</p>	5	-	Compliant	-
<p><u>Waste management</u>: To ensure that the discarding of any wise material produced because of the proposed mining operation takes place only at a site or sites demarcated for such purposes. To reduce, reuse, and recycle as far as practically possible. To prevent waste material from being dumped within the borders of the vicinity of the mining area.</p>	5	-	Compliant	The mine do recycle office paper, scrap metal, and conveyor belts. The rest of the waste is responsibly disposed of.



**ENVIRONMENTAL PERFORMANCE ASSESSMENT / ENVIRONMENTAL AUDIT REPORT –  
KIMBERLEY QUARRY**



DESCRIPTION	COMPLIANCE SCORE	NON-COMPLIANCE SCORE	STATUS	COMMENTS
<u>Sensitive landscapes:</u> To protect sensitive landscapes from potential negative impact.	N/A	-	-	None identified to date.



**ENVIRONMENTAL PERFORMANCE ASSESSMENT / ENVIRONMENTAL AUDIT  
REPORT – KIMBERLEY QUARRY**

**COMMENTS OR COMPLAINTS RECEIVED FROM I&AP’S**

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

A complaint was received regarding dust pollution during the audit period. The mine investigated the complaint and discussed the matter with the complainant.

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

**(REGULATION 34):**

<b>Date of previous EAR/EPA:</b>	April 2022
<b>Proof of submission to DMRE available:</b>	Proof of submission of the EAR/EPA is available on site.
<b>EAR/EPA compiled by independent person with environmental auditing expertise:</b>	This EAR was compiled by Ms Christine Fouché 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 holder of the mining right (OMV Kimberley Mining (Pty) Ltd) must, within 7 days of submission, notify all potential and registered I&AP’s of the submission of the report. The report will also be placed on the publicly accessible Greenmined website.

**GENERAL REPORT**

Compliance of the mining site with the 2011 EMPR was reviewed during the site assessment. The mining area recorded a compliance score of 92% for the audit period.

Since the previous audit (2022) the depth of the southern quarry pit was increased over an area of ±0.5 ha. This however took place in the already disturbed footprint of the quarry and the perimeter did not increase.

The processing plant was upgraded, and generators were added to the plant. As mentioned earlier, the ready-mix plant is no longer operational, and the asphalt company and B&E left the premises. The block yard was not audited.

As mentioned earlier, it appears as if the mining boundary indicated on the 2024 mine plan differs from the approved area. Site management must confirm the mine boundaries and ensure the correct boundaries appear on the mine plan.

**Water Use:**

The mine uses rainwater that accumulates in the quarry pit for the washing of aggregate, as well as dust suppression. An application for the use of this water must be submitted to the Department of Water and Sanitation (DWS) as it is a regulated activity in terms of the National Water Act, 1998. The use of the water from the last tank of the oil sump at the wash bay must also be registered with DWS prior to it being used on site.

Water quality samples were submitted to Simlab in July 2023. The samples were collected from the quarry, the last chamber of the oil sump, and the municipal drinking water. Although the test results do not discuss the findings, it appears that the municipal water conformed to drinking water standards. The water from the last chamber of the oil sump appeared to pick up traces of hydrocarbons that would indicate that the water cannot be used for dust suppression. The quarry water appears to be compliant with the limits of SANS 241-1:2015 (Drinking). It is proposed that the mine request the lab to add a discussion on the water results in the following report, and no water may from the oil sump may be irrigated if it contains hydrocarbons.

The drains of all basins must be kept operational, and the blockage noted on the day of the audit must be rectified.

**Weeds and Invader Plants:**

The mine must establish a site specific management plan and the removal and control of invasive plant species must be intensified. Control of the problem plants is a continuous management action, and as discussed, should be extended to include the following species:

- Russian Tumbleweed      *Salsola kali*      Category 1b (Alien and Invasive Species List, 2020)
- Prickly Pear              *Opuntia* spp.      Category 1b (Alien and Invasive Species List, 2020)

The Department of Water and Sanitation's Working for Water section provides guidelines to the preferred clearing methods for most problem plants. This information can be obtained from their website: <http://www.dwaf.gov.za/wfw/Control/>. The Working for Water management treatment guide for the control of terrestrial problem plants (Bold, 2007) list the following herbicides to be used in the control of specific problem plants:

- Wild Tobacco (*Nicotiana glauca*):  
Foliar Spray – Access 240 SL / 2,4,5-trichlorophenoxyacetic acid (2,4,5-T)
- Mexican Poppy (*Argemone mexicana*):  
Foliar Spray – Access 240 SL
- Prickly Pear (*Opuntia ficus-indica*)  
Direct Inject – Impala / MSMA 720/L SL

**NB:** *The proposed control methods are only recommendations based on information available to the environmental consultant at the time. The environmental consultants employed at Greenmined environmental are not registered pest control operators (PCO) and in the circumstances the site should ensure that the expert advice and opinion of a registered PCO is sought prior to the commencement and implementation of control methods pertaining to invasive species.*



**Salvage Yard:**

The area previously used as asphalt yard has since been used as salvage yard by the mine. As mentioned earlier, various hydrocarbon spills and problem plants were noted in this area. All equipment that contains hydrocarbons must either be removed from site or be fitted with drip trays of adequate size. All hydrocarbon spills must be cleaned, and the soil must be treated as hazardous waste.

Further to the above, if the mine implements the bioremediation of contaminated soil, the “cleaned” soil must be tested for hydrocarbons before it is returned to the environment. Management must be able to proof that the soil is clean, and that the remediation process was successful before the soil is reused. This proof must be filed for auditing purposes. Site management should consider the use of a degreasing agent such as Oilcap prior to the remediation of the soil as this will significantly reduce the time needed to clean the soil.

**B&E Internation (Pty) Ltd (B&E) Yard:**

The area previously used by B&E for the temporary crushing and screening of material, must be cleaned and all unwanted equipment, tools, vehicles and products must be removed. It is important that all the hydrocarbons should either be removed from site or stored in a bunded area with adequate capacity and impermeable surface. The oil that accumulated in the bund of the used oil tank must be removed from site and all the drip trays must continuously be emptied to prevent secondary spills.

**Waste Management:**

The bund of the oil store must be repaired and sealed, and it is proposed that the capacity of all the bunded areas be calculated and be displayed. All bunds must conform to the 110% capacity requirement.

It is important that the waste noted in the old quarry be removed. This waste may not be buried when rehabilitation moves to that side of the quarry.

As stated earlier, site management must ensure that all drip trays used on site is sealed and cleaned regularly. Rainwater that accumulates in the drip trays must be discarded as waste water into the sump at the wash bay.

A new 2 000 l septic tank was installed at the weigh bridge that drains into a soakaway system. The sewerage of the remaining quarry is, according to site management, connected to the municipal sewerage system.

As mentioned earlier, Oilkol removes the used oil and filters from site, the general waste is collected by the municipality and LM Scrap collects the unwanted material. Site management must obtain the registration certificates of all the waste service providers.

**Progressive Rehabilitation:**

On the day of the inspection, site management was in the process of rehabilitating the most southern bend (±0.2 ha) of the old quarry pit. Unwanted rock were being dumped into the excavation to backfill it and create space in the pit where mining takes place. Management confirmed that soil will be spread over the coarse material once the area was backfilled. The rehabilitation of this area commenced in August 2023.

**DOCUMENT CHECKLIST:**

- |   |   |                                       |
|---|---|---------------------------------------|
| • Alien vegetation control plan & action plan | - | Site specific plan to be used on site |
| • Blasting Procedure                          | - | Present                               |



**ENVIRONMENTAL PERFORMANCE ASSESSMENT / ENVIRONMENTAL AUDIT  
REPORT – KIMBERLEY QUARRY**

• Complaints Register	-	To be added
• Dust Monitoring Report	-	Present
• EMPR 2011	-	Present
• Environmental Awareness Training	-	Present
• Environmental Performance Assessment (2022)	-	Present
• Financial Provision (2023)	-	Present
• Incident Reports / Flash Reports	-	Present
• Mine Plan (2024)	-	Present
• Mine Works Programme	-	Present
• Mining Right	-	Present
• MSDS's	-	Present
• Noise Monitoring Report	-	Present
• Plant/Vehicle Inspection Records	-	Present
• Proof of Waste Removal	-	Present
• Social and Labour Plan	-	Present
• Waste Service Providers Registration/Certification	-	To be obtained
• Water Use Authorisation (Borehole)	-	Present. Other uses to be applied for
• Fire Protection Association Certificate	-	Present
• Monitoring results	-	Dust Monitoring (Present) Water monitoring (Present) Fuel Consumption (Present) Electricity Consumption (Present) Waste Generation (Present)

**MATTERS TO BE ADDRESSED:**

1. Ensure the site file has a complaints register;
2. Register the water uses of the quarry with DWS;
3. Confirm that the water results comply with acceptable water standards;
4. Increase the removal of weeds/invaser plants;
5. Ensure all stationary vehicles and equipment is fitted with drip trays;
6. Clean all hydrocarbon spills at especially the salvage yard and old B&E yard;
7. Remove all unwanted metal, equipment from site;
8. Repair, seal and confirm the capacity of all the bund walls;
9. Place bund walls around the generators;
10. Obtain the registration documents of all waste removal service providers;
11. Remove all the litter/waste from the old quarry pit;
12. Test a sample of the remediated soil to proof the process is affective;
13. Clean the drains of all basins to prevent wash water flowing into the surroundings;
14. Ensure that the mine boundary is correctly indicated on the mine plan.

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

Although some aspects of the EMPR are outdated it is believed that the EMPR still adequately manage and/or mitigate the environmental impacts at the mining area.

**NEED FOR AMENDMENT OF THE EMPR:**

Presently no amendment of the EMPR is deemed necessary.

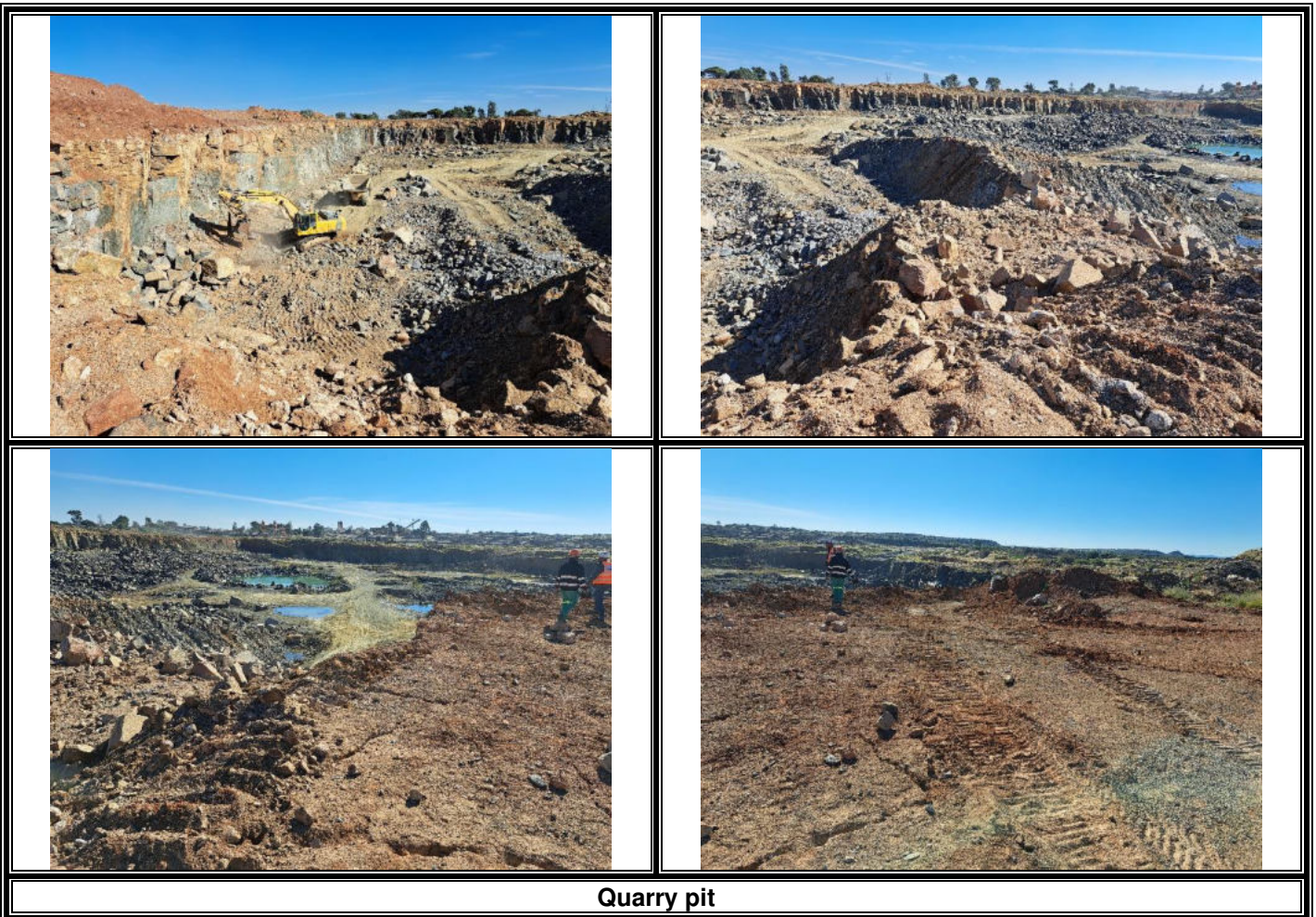
**FINANCIAL PROVISION:**

This report is accompanied by a reassessment of the financial provision calculation for the year 2024 that amounts to R 9 511 029.22. The 2024 financial provision exceeds the value of financial guarantee in place at the DMRE and the Right Holder may need to provide a shortfall amount upon departmental request.

**ECO SIGNATURE**

NAME:	SIGNATURE:	DATE:
Christine Fouche		04 July 2024

**PHOTOGRAPHS**





**Invader plants to be removed from the overburden and topsoil stockpiles**



**Soil removed from the quarry extension area**



**Old asphalt yard now used as salvage yard**



**Drip trays to be placed under leaking equipment and spills to be cleaned**



**Invader plants to be removed**



**Used oil to be removed from the old B&E yard**



**Drip trays and/or bunds to be added. Alternatively the equipment must be removed from site**



**Equipment to be removed from site if no longer needed**



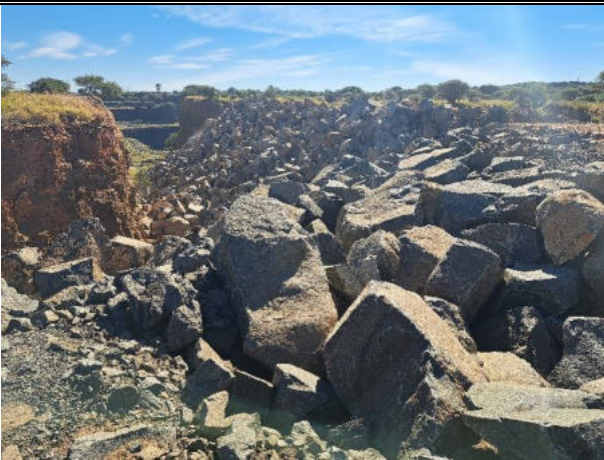
**Unwanted equipment to be removed from the mining area**



**Old quarry**



**Old quarry**



**Oversize rocks used to backfill a part of the old quarry**

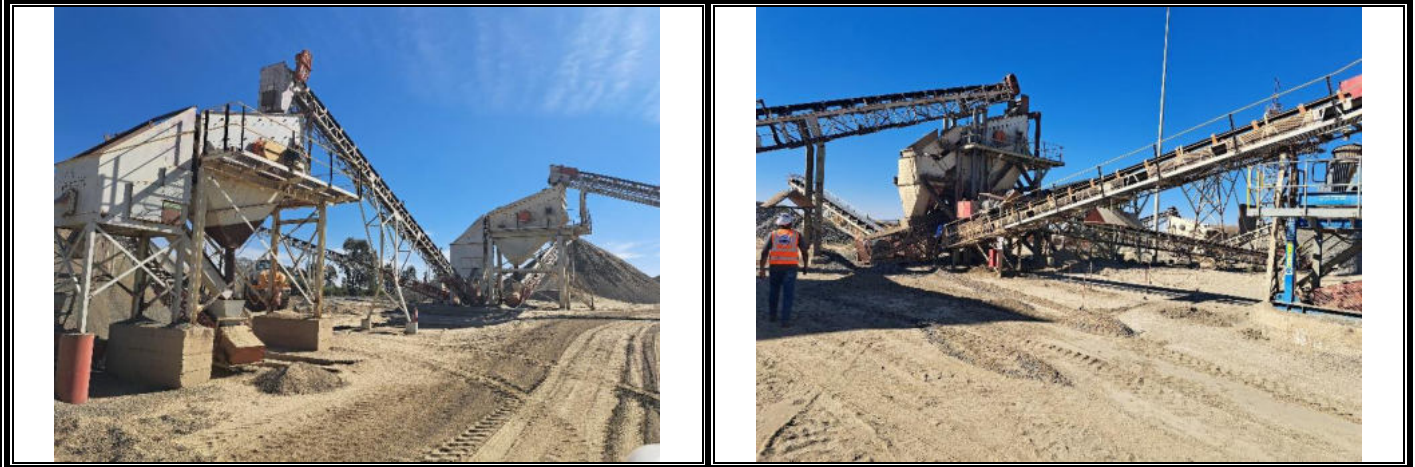


**Surrounding area – old quarry**





**Stockpile area**



**Processing plant**



**Bund at the processing plant**



**Walkways at the processing plant**



**Bund to be installed around generators**



**Explosives destruction area**



**Machine to be repaired and/or removed from site.  
Spills to be cleaned**



**Old bags/plastic to be removed from site**



**Oil sump of the wash bay**



**Drain to be cleaned**



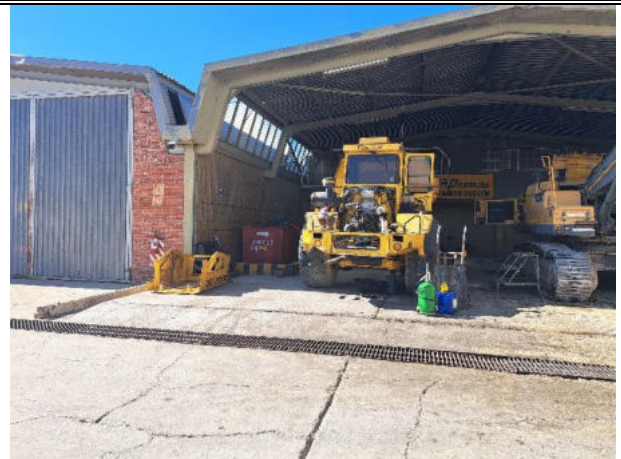
**Unwanted materials to be removed from site**



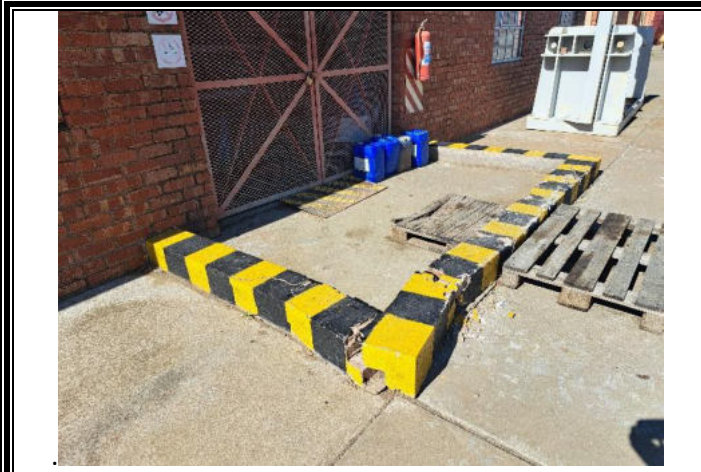
**Refuse bins available on site**



**Bund at workshop**



**Wash bay**



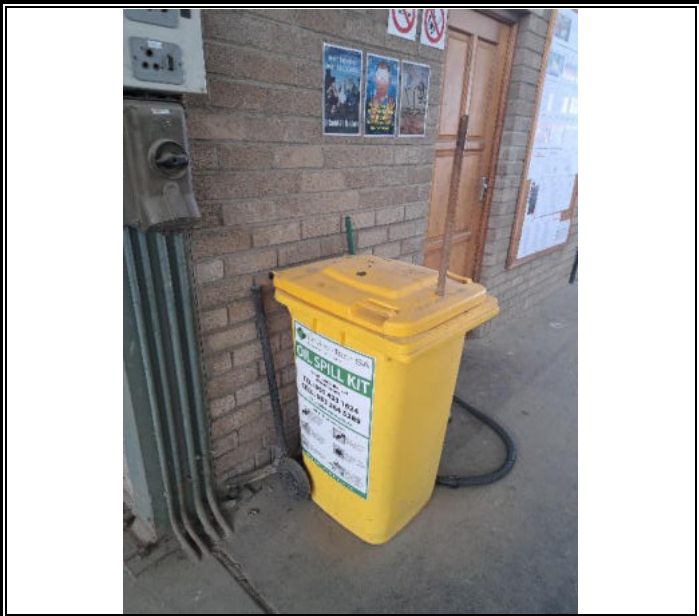
**Bund to be repaired**



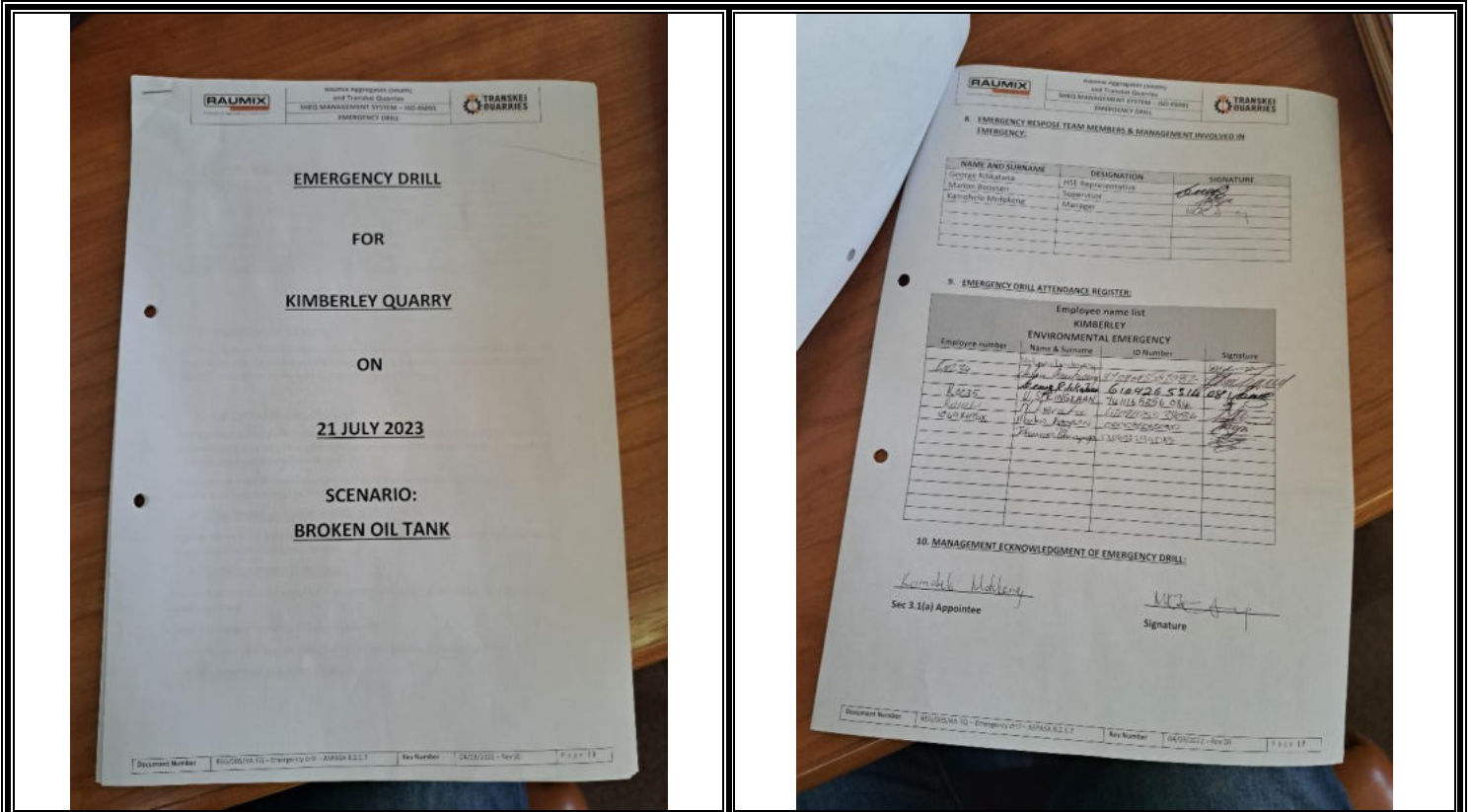
**Bund at oil storage area**



**Soil to be remediated**



**Oil spill kit**



**Environmental training**



**Recycling of office paper**



**Boundaries of the mine plan to be confirmed**

<b>WEIGHBRIDGE NOTE</b>	<b>Date:</b> 2023/05/18	<b>Delivery Note:</b>	<b>WB Number:</b> 27908
Account Name:	RAUMIX AGGREGATES PTY LTD	Vehicle Descrip:	Drop Side Truck
Product Name:	LIGHT STEEL	Registration Number:	BVL710NC
Action:	Off Loading	Time In:	2023/05/18 10:17:30 AM
Deduction:	0%	Bin No:	
Deduction Reason:		Time Out:	2023/05/18 12:14:00 PM
Comments:		First Weight:	27640 Kg
Operator:	Zenoni1	Total Time:	Days: 0 Time: 01:56:30
		Second Weight:	14240 Kg
		Supplier Weight:	0 Kg
		<b>Total Weight:</b>	<b>13400 Kg</b>

**DELIVERY NOTE**

KQ155637



**Kimberley Quarry**



Producers of Aggregate for Construction  
Southern Region

Tel: (051) 433-2964 Fax: (086) 510-1395 PO Box 13027, Arboretum, Bloemfontein, 9305 Vat no: 4280252166 Reg no: 1999/013981/07

**LM Scrap Metals**

Customer: LMS001  
Vat no: 4380193252  
Destination: COLLECT

Date: 18/05/2023  
Time: 09:58:54  
Gross mass: 27.860  
Tare mass: 14.360  
Net mass: 13.500

Product: SCRAP  
Product Code: MET  
Product Unit: TONS  
Truck Reg: BVL710NC  
Order nr:  
Instructions:

Name : \_\_\_\_\_ Signature: \_\_\_\_\_

**Proof of scrap metal removal**



# ENVIRONMENTAL PERFORMANCE ASSESSMENT / ENVIRONMENTAL AUDIT REPORT – KIMBERLEY QUARRY

Document No:		S34372																													
<b>WASTE TRANSPORTER</b>																															
<b>OILKOL (PTY) LTD</b> WIT REG No. 471918124 Reg. No. 1984080001 Head Office P.O. Box 1198 Krugersdorp 1740 Enquiries Tel: (085) 110 1981 Collections Tel: (085) 110 1981 Account Enquiries Tel: (011) 761 6750 Fax: (011) 762 4932 E-Mail: info@oilkol.co.za		SANSIS REG No. <b>G P T - 0 0 - 8 2 5</b>  Electronic Ref No.																													
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Delivery Note	3 1 1 1 9 7	Date	0 9 0 6 2 3																												
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<b>TOTAL</b>																															
1	4	3	0																												
WASTE GENERATOR SANSIS REG No.		Waste Transporter Name: <b>ENNS PART</b> Signature:																													
COLLECTED FROM: <b>RAUMIX AGGREGATES</b> GENERATOR'S ADDRESS: <b>Kimberley</b>		DEMERITORIAL ACCOUNT No. <b>R 0 4 6 9</b> SOCIAL AND PAYMENT ADDRESS:																													
PORTAL CODE:		POSTAL CODE:																													
CONTACT PERSON: <b>MARLON</b>		TEL No. <b>066 507 87 80</b> FAX No.																													
E-MAIL ADDRESS:		SEC-ANALYSIS:																													
I hereby declare that I received the waste as described and classified by the generator as indicated on this manifest.		I hereby declare that the content of this manifest is an accurate and true description of the waste as described and classified by the generator as indicated on this manifest.																													
No. of Containers: <b>3</b>		Signature:																													
Name: <b>MARLON</b>		Name: <b>MARLON</b>																													
<b>WASTE MANAGER</b> SANSIS REG No. <b>G P R - 0 1 - 2 1 2</b>		Signature:																													
Name: <b>PWA STEYN</b>		Name: <b>PWA STEYN</b>																													

Hazardous Waste Manifest

Use oil removed by Oilkol