

# PROPOSED MINING OF AGGREGATE ON PORTION 18 (PORTION 2) OF THE FARM LOUTERBRONNEN 250, THEUNISSEN DISTRICT, FREE STATE PROVINCE

## ENVIRONMENTAL AUDIT REPORT



<b>DMR REFERENCE NUMBER:</b>	<b>FS 30/5/1/2/2/10040 MR</b>
<b>AUDIT PERIOD:</b>	<b>March 2021</b>

**PREPARED FOR:**

Vengablox  
Contact person: Mr. M. du Plessis  
Cell: 083 410 8286  
Fax: 086 546 0579  
Postal Address:  
PO Box 204  
Brandfort  
9400

**PREPARED BY:**

Greenmined Environmental  
Auditor: Gerhard Botha  
Cell: 084 207 3454

Postal Address:  
Suite 62  
Private Bag x15  
Somerset West  
7129



**ENVIRONMENTAL PERFORMANCE ASSESSMENT  
LOUTERBRONNEN AGGREGATE QUARRY**

**1. PROJECT SPECIFIC DETAIL**

ITEM	MINING RIGHT/PERMIT HOLDER
<b>Company Name</b>	Vengablox
<b>Contact Person</b>	Mr. M. du Plessis
<b>Tel Number</b>	N/A
<b>Cell Number</b>	083 410 8286
<b>Postal Address</b>	PO Box 202, Theunissen, 9410
ITEM	AUTHOR CONSULTANT DETAIL
<b>Company Name</b>	GreenMined Environmental
<b>Contact Person</b>	Gerhard Botha
<b>Cell Number</b>	084 207 3454
<b>E-mail Address</b>	<a href="mailto:gabotha11@gmail.com">gabotha11@gmail.com</a>
<b>Postal Address</b>	PO Box 12500, Brandhof, 9324
ITEM	GREENMINED ENVIRONMENTAL CONSULTANT DETAIL
<b>Company Name</b>	GreenMined Environmental
<b>Contact Person</b>	Mr. M Saal
<b>Tel Number</b>	021 851 2673
<b>Cell Number</b>	079 979 8766
<b>E-mail Address</b>	<a href="mailto:Murchellin.s@greenmined.co.za">Murchellin.s@greenmined.co.za</a>
<b>Postal Address</b>	Suite 62, Private Bag X15, Somerset West, 7129
ITEM	LOCATION AND AREA INFORMATION
<b>Site Name</b>	Louterbronnen Aggregate Quarry
<b>Property Description</b>	Farm Name: Portion 18 (Portion 2) of the farm Louterbronnen 250 Magisterial District: Theunissen 21 Digit Surveyor General Code: F03300000000025000018
<b>Location</b>	±2 km south-east of Theunissen
<b>Size of Mining Area</b>	Application area: 17.9ha
<b>Site Coordinates:</b>	A. 28°24'44.18" S; 26°43'37.23" E
	B. 28°24'46.62" S; 26°43'32.64" E
	C. 28°24'49.91" S; 26°43'31.86" E
	D. 28°25'04.37" S; 26°43'39.34" E
	E. 28°24'57.48" S; 26°43'53.11" E



# ENVIRONMENTAL PERFORMANCE ASSESSMENT LOUTERBRONNEN AGGREGATE QUARRY

## TABLE OF CONTENTS

<b>1. PROJECT SPECIFIC DETAIL</b> .....	2
PROJECT DETAIL.....	4
DETAIL OF AUDITOR .....	4
SCOPE & PURPOSE OF ENVIRONMENTAL AUDIT .....	5
ASSUMPTIONS, UNCERTAINTIES OR GAPS IN KNOWLEDGE .....	5
LOCATION .....	6
PROJECT DESCRIPTION .....	6
SITE CONDITIONS.....	6
REPORTABLE ENVIRONMENTAL INCIDENTS.....	7
ADOPTED METHODOLOGY .....	7
INSPECTION ASPECTS .....	8
COMMENTS OR COMPLAINTS RECEIVED FROM I&AP'S .....	14
GENERAL REPORT .....	14
INVASIVE ALIEN PLANT MANAGEMENT RECOMMENDATIONS .....	<b>Error! Bookmark not defined.</b>
FINANCIAL PROVISION .....	19
ECO SIGNATURE.....	19
PHOTOGRAPHS: General Appearance and progress.....	20

**ENVIRONMENTAL PERFORMANCE ASSESSMENT  
LOUTERBRONNEN AGGREGATE QUARRY**

**ENVIRONMENTAL AUDIT REPORT**

**PROJECT DETAIL**

<b>Permit / Right Number:</b>	FS 30/5/1/2/2/10040 MR	<b>Date of Commencement:</b>	15 May 2019
<b>Site Name:</b>	Louterbronnen Aggregate Quarry	<b>Inspection Date:</b>	7 April 2021
<b>Permit / Right Holder:</b>	Vengablox (Pty) Ltd	<b>Other Authorisations:</b>	24 March 2017
<b>Report Number:</b>	13		

**DETAIL OF AUDITOR**

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

<b>ECO:</b>	Gerhard Botha
<b>EXPERTISE:</b>	Mrs. GA Botha has 9 years of experience in environmental legal compliance audits, (GIS) geographic information system, mining right, and permit applications and applications for environmental authorizations & Water use applications.
<b>DECLARATION OF INDEPENDENCE:</b>	<p>I Gerhard Botha 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.</li> </ul> <p align="center">             Signature of ECO         </p> <p align="right">Date: 30 April 2021</p>

## ENVIRONMENTAL PERFORMANCE ASSESSMENT LOUTERBRONNEN AGGREGATE 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.

#### **OBJECTIVE:**

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

#### **INSPECTED AREAS:**

The inspection included an assessment of the following areas:

- Washing and Screening plant area;
- Earthmoving and excavating equipment
- Settlement pond for processing water
- Water pump for settling pond
- Site Vehicles
- Overburden and topsoil dumps;
- Stockpiles;
- General working area
- Office area;
- Parking area for visitors and site vehicles with a concrete floor
- Site Storage Area

In order to establish the environmental compliance assessment of the operation, the mining site was inspected on foot by the Environmental Control Officer, Gerhard Botha of Greenmined Environmental.

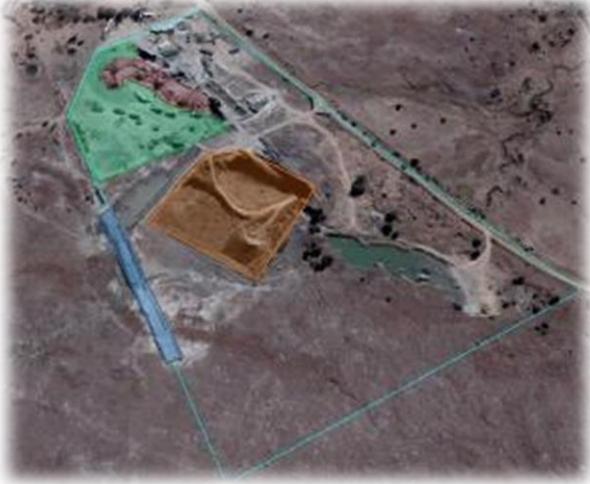
### **ASSUMPTIONS, UNCERTAINTIES OR GAPS IN KNOWLEDGE**

**(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.

**ENVIRONMENTAL PERFORMANCE ASSESSMENT  
LOUTERBRONNEN AGGREGATE QUARRY**

**LOCATION**

<b>Site Location:</b>	The mine is located ±2 km south-east of Theunissen. The mining footprint was approved over the entire extent of Portion 18 (Portion 2) of the farm Louterbronnen 250. The GPS coordinates to the entrance of the site are 28°24'44.17"S; 26°43'37.76"E.	
<b>Site Map:</b>	 <p data-bbox="419 913 1439 1093">Satellite view of the approved mining area (blue polygon), where the blue shaded polygon indicate the water management area (±0.3 ha), the orange shaded polygon shows the quarry pit (±2 ha), the green shaded area represents the disturbed general surface (±1.6 ha), and the red shaded polygon shows the processing plant (±5 754 m<sup>3</sup>). (Image obtained from Google Earth).</p>	
<b>Site Coordinates:</b>	28°24'44.18" S	S 26°43'37.23" E
	28°24'46.62" S	S 26°43'32.64" E
	28°24'49.91" S	S 26°43'31.86" E
	28°25'04.37" S	S 26°43'39.34" E
	28°24'57.48" S	S 26°43'53.11" E

**PROJECT DESCRIPTION**

The right holder mines the quarry for dolerite by blasting, using explosives in order to loosen the hard rock. The material is then loaded and hauled to the existing crushing, screening and washing plants where it is processed into different sized dolerite. The dolerite is stockpiled where after it is transported to clients using trucks and trailers via the existing access roads linking the farm to the R708. All activities are contained within the boundaries of the site.

**SITE CONDITIONS**

At the time of the inspection the climate was moderate warm with a slight breeze. Soil conditions was dam to wet due to some light precipitation that fell the previous day.

**ENVIRONMENTAL PERFORMANCE ASSESSMENT  
LOUTERBRONNEN AGGREGATE QUARRY**

**REPORTABLE ENVIRONMENTAL INCIDENTS**

<b>Incident Date:</b>	N/A
<b>Incident No:</b>	N/A
<b>Incident:</b>	No Environmental Incidents at this stage
<b>How addressed:</b>	N/A
<b>When addressed:</b>	N/A

**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

**ENVIRONMENTAL PERFORMANCE ASSESSMENT  
LOUTERBRONNEN AGGREGATE QUARRY**

**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	5	1	Compliant	The EA (Ref No: FS 30/5/1/2/3/2/1/10040 EM has been issued on the 15th of May 2018.
Copy of the EA and EMPR available on site	5	1	Compliant	EMPR available on site. Copy of EA available on site.
Mineral and Petroleum Resources Development Act, 2002 (Act No 28 of 2002)	5	1	Compliant	The mining area has a valid Mining Right with Ref No: FS 30/5/1/2/2/10040MR
Mining Permit available on site	5	1	Compliant	
Mine plan annually reviewed	5	1	Compliant	Mining plan has been updated recently.
National Environmental Management: Waste Act, 2008 (Act No 59 of 2008)	5	1	Compliant	
National Water Act, 1998 (Act 36 of 1998)	5	1	Compliant	The water, used in the existing washing plant, is extracted from a borehole on the property for which the Department of Water and Sanitation issued a General Authorisation for Section 21 (a), (e), (g) and (i) in terms of the NWA, 1998
GA Authorisation	5	1	Compliant	Available on site
National Environmental Management: Biodiversity Act, 2004 (Act No 10 of 2004) (NEM:BA)	5	1	Compliant	
Hazardous Substances Act, 1973 (Act 15 of 1973)	5	1	Compliant	

## ENVIRONMENTAL PERFORMANCE ASSESSMENT LOUTERBRONNEN AGGREGATE QUARRY

Description	Compliance score	Non-Compliance Score	Status	Comments
Mine Health and Safety Act, 1996 (Act No 29 of 1996), read together with applicable amendments and regulations thereto including relevant OHSa regulations	5	1	Compliant	
National Heritage Resources Act, 1999 (Act No 25 of 1999)	5	1	Compliant	
Mine Works Programme	5	1	Compliant	» Available on site
Social Labour Plan	5	1	Compliant	» Available on site
Regulation 42 Mine Plan (Updated)	5	1	Compliant	» Mine Plan has been updated.
Copies of Financial Provision Calculation (updated) and Annual Performance Audit (EPA) present	5	1	Compliant	
Waste register and Permits for waste removal	5	1	Compliant	» General waste is removed by the mine manager on a regular basis. A record keeping system is in place.
Complaints Register Present	5	1	Compliant	
Environmental Awareness training	5	1	Compliant	» Site induction and environmental training have been done with the staff on the 30th of June 2020.
<b>ASPECTS OF THE AFFECTED ENVIRONMENT</b>				
<b>Topsoil: Overburden Management (EMP PG: 55, 97, 100)</b>				
Topsoil stripping	5	1	Compliant	
Topsoil storage (heaps not exceeding 1.5 m)	5	1	Compliant	
Topsoil heaps that are stored for longer than 6 months: Naturally or artificially vegetated with, indigenous grass species.	5	1	Compliant	» The vegetation cover of most stockpile heaps has been mowed/cut as fire prevention and to increase visibility
Overburden stripped & stockpiled	5	1	Compliant	
Stockpiles monitored for erosion, weeds and foreign matter	4	2	Compliant / Continuation of current action required	» Most of the heaps have been cleared of Invasive Alien Plants (IAP). » The eradication of IAPs should continue and frequent monitoring should be done to avoid the uncontrolled establishment of such IAPs.
Topsoil returned to rehabilitated area	NA	1	NA	» No rehabilitation has occurred up to date.
<b>Vegetation (EMP PG: 57, 100, 103)</b>				
Protected plants (if any) sheltered from mining activities	NA	1	NA	» No protected, endangered or declining species have been recorded within the mining area.

## ENVIRONMENTAL PERFORMANCE ASSESSMENT LOUTERBRONNEN AGGREGATE QUARRY

Description	Compliance score	Non-Compliance Score	Status	Comments
Removal of vegetation limited to smallest possible area	5	1	Compliant	
Aliens & weeds controlled on site	4	2	Compliant / Continuation of current action required	<ul style="list-style-type: none"> <li>» Due to favourable conditions some Invasive Alien Plants (most notably; <i>Xanthium spinosum</i>, <i>Datura ferox</i> and <i>Cirsium vulgare</i>) have started to establish within the mining area.</li> <li>» Most of the mining area has been cleared of these IAPs</li> <li>» The remainder of the mining area will be addressed in due course</li> <li>» Frequent monitoring should be done to avoid the uncontrolled establishment of such IAPs in the future.</li> </ul>
<b>Fauna (EMP PG: 58, 59, 103):</b>				
All animals, birds and reptiles protected on site.	5	1	Compliant	
<b>Air Quality and Noise (EMP PG: 56, 98, 99):</b>				
Dust monitoring plan implemented	5	1	Compliant	» Dust monitoring on a monthly basis
Dust suppression implemented	5	2	In Progress / Monitoring of the situation	<ul style="list-style-type: none"> <li>» The mine has made notable progress in addressing the amount of dust pollution generated within the mining area, including wetting of access roads and stockpiled material.</li> <li>» Furthermore, dust suppression during the crushing process is also done and additional measures have been taken to reduce dust generating during the crushing process.</li> <li>» The mining company is still searching of additional and innovative measures to further reduce dust pollution generated during the operation of the mine.</li> </ul>
Speed on access road limited to 40 km/h	5	1	Compliant	
Dust monitoring equipment operational	5	1	Compliant	
Speed on access road limited to 40 km/h	5	1	Compliant	
Mining equipment serviced regularly to ensure noise emissions are minimized	5	1	Compliant	
Noise control	5	1	Compliant	
Blasting vibration and blast noise monitoring implemented on site	5	1	Compliant	
I&AP and stakeholders informed prior to a blast.	5	1	Compliant	
<b>Surface and Storm Water Management (EMP PG: 57, 101):</b>				
Storm water Management Plan implemented on site	5	1	Compliant	

## ENVIRONMENTAL PERFORMANCE ASSESSMENT LOUTERBRONNEN AGGREGATE QUARRY

Description	Compliance score	Non-Compliance Score	Status	Comments
Storm water diverted around the mining area and access roads to prevent erosion	5	1	Compliant	
Mining conducted in accordance with the Best Practice Guidelines for small scale mining	5	1	Compliant	
Areas with erosion reinstated	NA	1	NA	» No erosion features present at current time
<b>Visual Exposure (EMP PG: 55, 97, 55):</b>				
Is the contractor implementing good visual and housekeeping standards	5	1	Compliant	» There is a marked attempt at improving the visual appearance of the mine.
Height of product stockpiles determined based on the visibility of the site	5	1	Compliant	
<b>Hazardous Chemical Management (EMP PG: 58, 102, 103):</b>				
Hazardous material stored within a bunded area (110% capacity)	5	1	Compliant	» A roof has been installed over the storage/bunded area in order to avoid rainwater from entering and filling up the storage area.
Regular vehicle management is done at the workshop	5	1	Compliant	
Drip trays present when refuelling is done outside the service bay	5	1	Compliant	
Mining equipment mechanically sound without visible oil leaks	3	3	Compliant / Action required as soon as possible	» Numerous small oil spills have been noted around the mining area is likely due to a mechanically unsound mining vehicle.
Hazardous spills cleaned up, stored and disposed of according to the acceptable procedures and methods	4	3	Compliant / Action required as soon as possible	» Spill are cleaned up at a regular basis, however the rate of spillage/leakage is much higher and more frequent cleaning up activities should be undertaken.
Hazardous waste removed by a registered waste handling contractor	5	1	Compliant	» All hazardous waste has been removed by a registered company (Oilkol).
<b>Waste Management (EMP PG: 58, 102):</b>				
Site free of day-to-day litter	5	1	Compliant	
Waste collected in sealable containers	5	1	Compliant	
General waste dumped at a recognised landfill site	5	1	Compliant	
No waste stockpile area allowed outside the boundaries of the mining area	5	1	Compliant	

**ENVIRONMENTAL PERFORMANCE ASSESSMENT  
LOUTERBRONNEN AGGREGATE QUARRY**

Description	Compliance score	Non-Compliance Score	Status	Comments
Suitable covered receptacles available at all times and conveniently placed for the disposal of waste	5	1	Compliant	
Proper sanitation facilities available to employees	5	1	Compliant	
<b>Potable Water and Ablution Facilities</b>				
Ablution facilities available on site more than 200m from a watercourse	5	1	Compliant	
Potable water available on site for use of workers	5	1	Compliant	
Effluent water from the camp washing facility disposed of in a French drain, situated more than 200m from a watercourse	NA	1	NA	
<b>Fire Management</b>				
Firefighting equipment available on-site	5	1	Compliant	
No open fires at mining site allowed	5	1	Compliant	
<b>Mine and Equipment Management</b>				
Mining area demarcated with visible beacons	5	1	Compliant	
Mining conducted within approved footprint area	5	1	Compliant	
Unnecessary surface disturbance avoided	5	1	Compliant	
<b>Access Roads, Vehicle and Transporting of Material (EMP PG: 59, 104, 105):</b>				
Access road maintained	5	1	Compliant	
Movement of project related vehicles and machinery restricted to the approved mining area	5	1	Compliant	
All trucks weighed before leaving the site in order to prevent overloading	5	1	Compliant	
Speed limits enforced within the mining area	5	1	Compliant	
Weighbridge slips filled on-site and are available for auditing	5	1	Compliant	
<b>Employee and Safety Management (EMP PG: 59, 104):</b>				

## ENVIRONMENTAL PERFORMANCE ASSESSMENT LOUTERBRONNEN AGGREGATE QUARRY

Description	Compliance score	Non-Compliance Score	Status	Comments
Workers inducted and informed of EMP conditions	5	1	Compliant	Site induction and environmental training have been done with the staff on the 30 <sup>th</sup> of June 2020.
Workers provided with PPE	5	1	Compliant	
Appropriate notification signage erected at the mining site, warning the public about the hazard around the mining site and presence of heavy vehicles and machinery, as well as speed limits within the mining area.	5	1	Compliant	
Weather proof, durable, legible notices in at least three official languages applicable in the area displayed at the entrance to the site.	5	1	Compliant	
Effective access control to prevent unauthorised entry.	5	1	Compliant	
Surrounding land users informed of blasting events	5	1	Compliant	
Audible warning of a pending blast must be given at least 3 minutes in advance of the blast	5	1	Compliant	
Measures implemented to limit fly rock	5	1	Compliant	
Fly rock that falls beyond the working area collected and removed	5	1	Compliant	

**COMMENTS OR COMPLAINTS RECEIVED FROM I&AP'S**  
**(APPENDIX 7 SUB-REGULATION 3(G) & (J)):**

No written response has been received from any I&AP or stakeholder during the audit period.

**GENERAL REPORT**

Compliance of the mining site with the EMP approved by DMR was reviewed during the site assessment. The mining area recorded a compliance score of 98.65 for the month of March 2021. Thus, there was an improvement in the compliance score for the month of March.

- 94.6% of tasks were executed 100% according to EMP specifications;
- 3.2% of all tasks were executed at 80% achieving rate;
- 1% of all tasks were executed at 50%;
- 0% of all tasks were executed at 20%, whilst
- 0% of task were not executed in accordance with the EMP specifications.

**All tasks are executed in accordance with the EMP specifications**

**FURTHERMORE**

- Two activities have been identified which require the consideration of mitigation or the continuation of current mitigations measures namely:

**1) Management of Invasive Alien Plant (IAPs)**

» Eradication: Topsoil Storage

Most of the topsoil storage heaps have been cleared of IAPs, with only a small portion still containing some IAPS. The mining company was in the process of addressing these areas.

- *Recommended Mitigation:* These remaining areas should be cleared of these species with care taken not to allow the dispersal of seeds.

» Stockpiled overburden:

Most of the stockpiled areas have been cleared of IAPs, with only a small portion still containing some IAPS. The mining company was in the process of addressing these areas.

- *Recommended Mitigation:* These remaining areas should be cleared of these species with care taken not to allow the dispersal of seeds.

» Aliens and Weeds within the mining area:

Apart from the topsoil and overburden stockpiles some IAPs have established within other areas of the mine. Most of the IAPs have been removed from the mining area and the mining company is in the process of removing the remainder of the IAPs from the mining area.

- *Recommended Mitigation:* See recommended mitigations above (Topsoil Storage & Stockpiled Overburden).

**2) Dust management and suppression:**

The mine has made notable progress in addressing the amount of dust pollution generated within the mining area, including:

- » including wetting of access roads and stockpiled material.
- » dust suppression during the crushing process is also done and additional measures have been taken to reduce dust generating during the crushing process.
- » the mining company is still searching of additional and innovative measures to further reduce dust pollution generated during the operation of the mine.

» *Recommended Mitigation:* Continue to monitor and manage the situation.

- Two activities have been identified which require compulsory mitigation or the continuation of current mitigations measures namely:

**1) Mining equipment mechanically unsound (leaking of oil):**

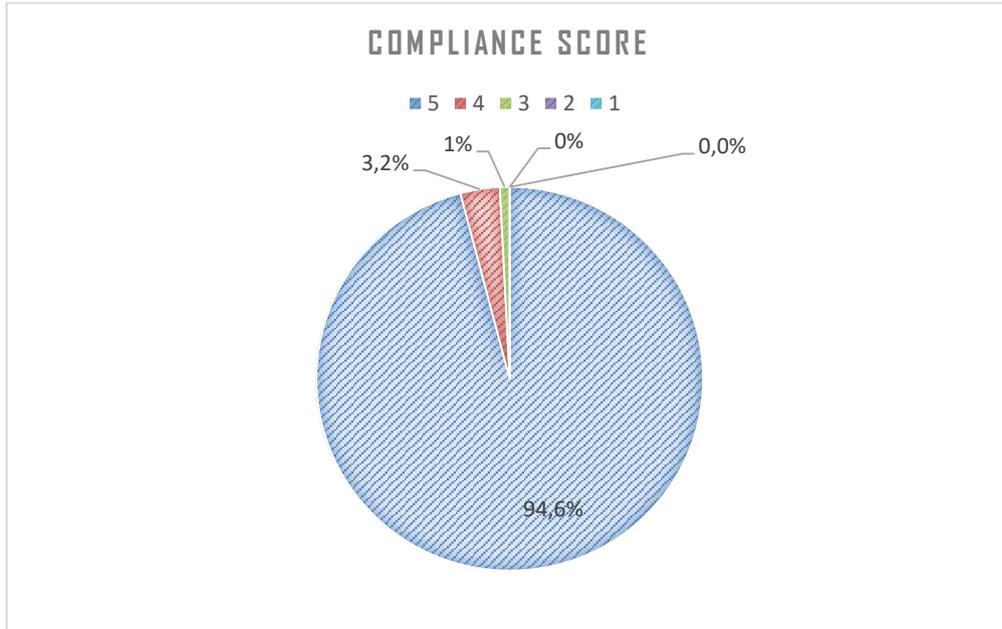
- » *Recommended Mitigation:* The culprit mining vehicles/machinery responsible for the numerous small oil spills should be identified and serviced (made sound).

**2) Hazardous spills:**

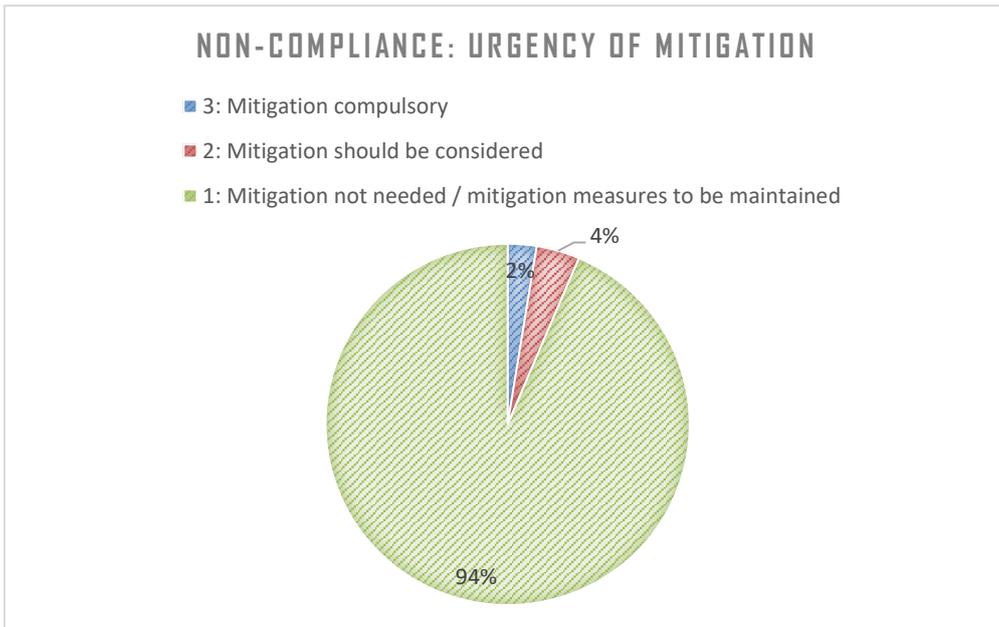
Even though all spills recorded during the previous month's inspection have been cleaned up numerous new small oil spills have been recorded during this inspection.

- » *Recommended Mitigation:* More frequent clean up inspections should be considered.

- The remaining 73 activities (93.6%) occur sufficient enough and at acceptable levels, that: no additional Mitigation Measures area required and the current active Mitigation Measures should only be maintained.



**Figure 1:** Compliance scores for all activities as listed within the approved Environmental Management Programme for the Louterbronnen Aggregate Quarry.



**Figure 2:** Degree of urgency in terms of mitigation for the listed non-compliance activities.

## ENVIRONMENTAL PERFORMANCE ASSESSMENT LOUTERBRONNEN AGGREGATE QUARRY



**Figure 3:** Historical compliance scores for the Louterbronnen Aggregate Quarry.

### **POSITIVE FINDINGS:**

There is a clear improvement to the visual appearance of the mining site and most of the issues raised in the past have been effectively and sufficiently addressed through the course of the past few months. Overall, the contractor was implementing good visual and housekeeping standards and the effort is clearly visible.

- Clear signages are visible throughout the mining area
- Dust being monitored on a monthly basis
- Significant progress has been made in terms of dust suppression and the mining company is still constantly in search additional measures in order to ensure that the levels of dust is constantly maintained at significantly low levels.
- Hazardous waste is effectively and securely stored in a bunded area and the levels are regularly monitored.
- The eradication and removal of Invasive Alien Plants have been extensively carried out throughout the mining area and is still currently ongoing.
- The salvage yard has been cleaned up.
- Water generated during the washing process are now recycled.
- The heritage site (grave site) have been fenced and is now protected.
- Records of General and Hazardous waste removal are kept on-site.

### **NEGATIVE FINDINGS (TO BE ADDRESSED):**

- Even though the mining equipment and vehicles are serviced regularly small oil leaks are still relatively frequently observed within the mining area. The mining company has appointed a dedicated person responsible for the clean-up of these spills. However, the responsible mining vehicles/equipment should be identified swiftly and should then be serviced and monitored thereafter.

**ENVIRONMENTAL PERFORMANCE ASSESSMENT  
LOUTERBRONNEN AGGREGATE QUARRY**

**DOCUMENT CHECKLIST:**

<b><u>RELEVANT DOCUMENTATION</u></b>	<b><u>PRESENT ON SITE</u></b>	<b><u>COMMENTS</u></b>
Mining right	Yes	
Mine works programme	Yes	
Social and labour plan	Yes	
Approved EMPR	Yes	
EA	Yes	
Regulation 42 Mine Plan (annually updated)	Yes	
Financial Provision Calculation (2020)	Yes	Electronic copy
EPA (2020)	Yes	Electronic copy
Water use licence	Yes	
Waste register and Permits for waste removal	Yes	<ul style="list-style-type: none"> <li>Records are kept of all hazardous waste being removed by a licenced waste removal company.</li> <li>It is recommended that some sort of record keeping is put in place for the removal of general waste.</li> </ul>
Incidents register	Yes	
Complaints register	Yes	
Proof of environmental awareness training	Yes	
MSDS's vir chemicals	Yes	
Written notice to neighbours of each blasting event	Yes	
Appointment of an on-site ECO	Yes	
Emergency Preparedness Plan	Yes	
Invasive plant species plan (part of the EIAr and EMPr – appendix J)	Yes	

**MATTERS TO BE ADDRESSED:**

**URGENT AND HIGH PRIORITY (WITHIN 1 OR 2 DAYS UPON NOTIFICATION):**

- Regular, continual search, identification and clean-up of small oil spills within the mining area.
- Any mining machinery/vehicles should be swiftly identified and serviced, if found to be unsound (leaking of oil/fuel). The vehicle/machinery should thereafter be monitored for a period of time in order to ensure that the vehicle/machine remain sound.

**PRIORITY (WITHIN THE NEXT MONTH FROM THE DATE OF NOTIFICATION):**

- Continuation of the activities relating to the eradication of alien invasive Plants (IAPs)

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

It is believed that the EMPR currently adequately manage and/or mitigate environmental impacts at the mining area.

**NEED FOR AMENDMENT OF THE EMP**

No need for the amendment of the EMPR could be identified during the site assessment.

**ENVIRONMENTAL PERFORMANCE ASSESSMENT  
LOUTERBRONNEN AGGREGATE QUARRY**

**FINANCIAL PROVISION**

The last quantum calculation compiled for the Louterbronnen Quarry was in June 2020 and the financial provision amount came to R592 994.58. The 2020 financial provision did not exceed the value of the bank guarantee in place with the DMR, and therefore the right holder was not required to provide a shortfall. The financial provision calculation was submitted to DMR.

**ECO SIGNATURE**

NAME:	SIGNATURE:	DATE:
Gerhard Botha		30 April 2021

**ENVIRONMENTAL PERFORMANCE ASSESSMENT  
LOUTERBRONNEN AGGREGATE QUARRY**

**PHOTOGRAPHS: GENERAL APPEARANCE AND PROGRESS**

**PARKING BAY, SITE OFFICE AND WEIGH BRIDGE**



**SCREENING AND CRUSHING PLANT**



**ENVIRONMENTAL PERFORMANCE ASSESSMENT  
LOUTERBRONNEN AGGREGATE QUARRY**



Example *Xanthium strumarium* (Category 1b IAP) recorded within the mining area.



Example *Xanthium spinosum* (Category 1b IAP) recorded within the mining area.

**WASTE STORAGE**



**SERVICING, MAINTENANCE AND WASHBAY AREA**



Washbay

**FUEL STORAGE AND REFUELLING AREA**



# ENVIRONMENTAL PERFORMANCE ASSESSMENT LOUTERBRONNEN AGGREGATE QUARRY

## THE QUARRY



## ERADICATION OF ALIEN INVASIVE PLANTS



**ENVIRONMENTAL PERFORMANCE ASSESSMENT  
LOUTERBRONNEN AGGREGATE QUARRY**



**IDENTIFIED HERATIGE SITE (GRAVE SITE)**



**SETTLING POND**



ENVIRONMENTAL PERFORMANCE ASSESSMENT  
LOUTERBRONNEN AGGREGATE QUARRY

REGULATION 42 MINE PLAN



**ENVIRONMENTAL INDUCTION AND AWARENESS TRAINING  
ATTENDANCE REGISTER**



**ENVIRONMENTAL INDUCTION MEETING**

Louterbronnen Quarry  
BlazeCore

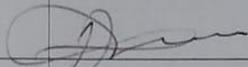
Attendance register for the environmental induction meeting conducted on the 30<sup>th</sup> of June 2020

NAME	SIGNATURE
WALTER SEMPE	
CHARLE MAMUNGO	M Mamungu
DAVID NINHOLO	
Lucas Mchitheka	Lucas
John Diphae	Diphae
SAM Kedu	S Kedu
Selena Johannes	
Khatholo Christopher	
ANDRIES GEORGE	
MCHITHEKA SHEPPERD	M.S
Paul of od wile	
Ernest Pansima	
Motsamai Paulose	Pauli
MAKABA ISAAC	

the goal isn't to live forever, it is to protect a planet that will

**ENVIRONMENTAL PERFORMANCE ASSESSMENT  
LOUTERBRONNEN AGGREGATE QUARRY**



NAME	SIGNATURE
Tshepo mampone	Tshepo
MAHLAMOLEA DIPHOKO	ZACHARIA
Adam Likalame	
Tshepo mampone	Tshepo
Dlungamandla Isaac	

⑥



PROOF OF NOTIFICATION OF IAP(S) INTERMS OF THE INTENT TO BLAST



REG NO: 2020/021670/07  
VAT: 4730 2898 18

28 Potgieter Street  
Theunissen  
9410

TEL: (083) 455 6640  
FAX: (057) 733 2682  
Email: office@stonecrushers.co.za

09/03/2021

NOTICE OF BLAST

With this signature, I hereby acknowledge that I have received a notice that Monostone t/a Blazecor Crushers will be conducting a blast on the 09 of March between 15h00 and 17h00

*Regards* 

FOR ANY INFORMATION CONTACT:

Machiel du Plessis : 083 410 8286

Willem Botha : 071 899 0018

**ENVIRONMENTAL PERFORMANCE ASSESSMENT  
LOUTERBRONNEN AGGREGATE QUARRY**



REG NO: 2020/021670/07  
VAT: 4730 2898 18

28 Potgieter Street  
Theunissen  
9410

TEL: (083) 455 6640  
FAX: (057) 733 2682  
Email: office@stonecrushers.co.za

09/03/2021

**FOR OFFICE RECORDS**

With this signature, I hereby acknowledge that I have received a notice that Monostone t/a Blazecor Crushers will be conducting a blast on the 09 of March 2021 between 15h00 and 17h00.

Date Received:	Farm / Company Name:	Received by:	Signature:
2021-03-05	Toungane Trust	Niodonus	<i>[Signature]</i>
2021-03-05	Keppieskraal	D. Sma	<i>[Signature]</i>
2021-03-05	SAPD	Capt. Naude	<i>[Signature]</i>
2021-03-05		Petroo	<i>[Signature]</i>
21/03/09	Transnet	W. Meunier	<i>[Signature]</i>

*Regards*

**FOR ANY INFORMATION CONTACT:**

Machiel du Plessis : 083 410 8286  
Willem Botha : 071 899 0018

