

# PROSPECTING RIGHT OVER PORTION 2 (A PORTION OF PORTION 1), REMAINDER PORTION, REMAINDER PORTION OF PORTION 1 AND PORTION 3 OF THE FARM MAKGANYENE NO 667 KURUMAN RD MAGISTERIAL DISTRICT, NORTHERN CAPE PROVINCE

## ENVIRONMENTAL PERFORMANCE ASSESSMENT



<b>DMRE REFERENCE NUMBER:</b>	<b>NC 30/5/1/1/2/12774 PR &amp; NC 00122 PR/11</b>
<b>AUDIT PERIOD:</b>	<b>July 2022</b>

**PREPARED FOR:**

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Makganyane Resources (Pty) Ltd  
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**PREPARED BY:**

Greenmined Environmental (Pty) Ltd

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## 1. PROJECT SPECIFIC DETAIL

ITEM	PROSPECTING RIGHT HOLDER
Company Name	Assmang (Pty) Ltd Makganyane Resources (Pty) Ltd
Contact Person	Mr. Lionel Koster
Tel Number	064 617 8510
Cell Number	083 265 7755
E-mail Address	<a href="mailto:lionel@strata-africa.com">lionel@strata-africa.com</a>
Postal Address	Suite 51 Private Bag X3018 Strand 7139
ITEM	CONSULTANT DETAIL
Company Name	Greenmined Environmental (Pty) Ltd
Contact Person	Christine Fouché
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Cell Number	082 811 8514
E-mail Address	<a href="mailto:Christine.f@greenmined.co.za">Christine.f@greenmined.co.za</a>
Postal Address	Postnet Suite 62 Private Bag x15 Somerset West 7129
ITEM	LOCATION AND AREA INFORMATION
Site Name	Makganyane Prospecting Right
Property Description	<ul style="list-style-type: none"> <li> Remaining Extend of the farm Makganyene No 667</li> <li> Portion 1 (Remaining Portion) of the farm Makganyene No 667</li> <li> Portion 2 (a portion of Portion 1) of the farm Makganyene No 667</li> <li> Portion 3 of the farm Makganyene No 667</li> </ul>
Location	The prospecting area is located ±24 km north-west of Postmasburg on opposite sides of the R385 provincial road.
Size of Area	1 549.44 ha

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## 2. ENVIRONMENTAL AUDIT REPORT

### PROJECT DETAIL

<b>Right Number:</b>	NC 30/5/1/1/2/12774 PR & NC 00122PR/11	<b>Date of Commencement:</b>	2019
<b>Site Name:</b>	Makganyane Prospecting Right	<b>Inspection Date:</b>	25 July 2022
<b>Right Holder:</b>	Assmang (Pty) Ltd	<b>Other Authorisations:</b>	Not Applicable
<b>Report Number:</b>	03		

### 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 sixteen years experience in doing environmental impact assessments and compliance monitoring in South Africa.
<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.</li> </ul> <p></p> <p>Christine Fouché</p> <p style="text-align: right;">Date: 01 August 2022</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).

#### **OBJECTIVE:**

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

#### **INSPECTED AREAS:**

The inspection included an assessment of the following areas:

- Drill sites (amongst others MK0044, MK0050, MK0118, MK0160, MK0248);
- Reinstated trenches;
- Site entrance; and
- Site office area.

To establish the environmental compliance assessment of the operation, the prospecting site was inspected by the Environmental Control Officer, Christine Fouché, of 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 gathered from site management. It must be noted that not all the drill sites were visited but a representative number were chosen.

## **LOCATION**

#### **Site Location:**

The prospecting area is located ±24 km north-west of Postmasburg on opposite sides of the R385 provincial road.

<p><b>Site Map:</b></p>																													
<p><b>Site Coordinates:</b></p>	<table border="1"> <tr> <td>1A</td> <td>28°08'42.35"S; 22°54'42.37"E</td> </tr> <tr> <td>1C</td> <td>28°09'27.69"S; 22°56'14.23"E</td> </tr> <tr> <td>1D</td> <td>28°09'46.16"S; 22°55'3.61"E</td> </tr> <tr> <td>2A</td> <td>28°08'58.80"S; 22°54'47.84"E</td> </tr> <tr> <td>2B</td> <td>28°08'50.29"S; 22°55'20.36"E</td> </tr> <tr> <td>2C</td> <td>28°09'19.11"S; 22°55'29.96"E</td> </tr> <tr> <td>2D</td> <td>28°09'27.62"S; 22°54'57.44"E</td> </tr> <tr> <td>3AT</td> <td>28°08'04.65"S; 22°56'31.94"E</td> </tr> <tr> <td>3BT</td> <td>28°07'40.21"S; 22°57'42.93"E</td> </tr> <tr> <td>3CT</td> <td>28°08'53.30"S; 22°58'25.59"E</td> </tr> <tr> <td>3DT</td> <td>28°09'17.06"S; 22°56'54.85"E</td> </tr> <tr> <td>3ET</td> <td>28°08'18.66"S; 22°55'51.24"E</td> </tr> <tr> <td>A</td> <td>28°09'00.02"S; 22°53'50.99"E</td> </tr> <tr> <td>D</td> <td>28°09'59.73"S; 22°54'11.70"E</td> </tr> </table>	1A	28°08'42.35"S; 22°54'42.37"E	1C	28°09'27.69"S; 22°56'14.23"E	1D	28°09'46.16"S; 22°55'3.61"E	2A	28°08'58.80"S; 22°54'47.84"E	2B	28°08'50.29"S; 22°55'20.36"E	2C	28°09'19.11"S; 22°55'29.96"E	2D	28°09'27.62"S; 22°54'57.44"E	3AT	28°08'04.65"S; 22°56'31.94"E	3BT	28°07'40.21"S; 22°57'42.93"E	3CT	28°08'53.30"S; 22°58'25.59"E	3DT	28°09'17.06"S; 22°56'54.85"E	3ET	28°08'18.66"S; 22°55'51.24"E	A	28°09'00.02"S; 22°53'50.99"E	D	28°09'59.73"S; 22°54'11.70"E
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### PROJECT DESCRIPTION

Exploration of the approved prospecting area commenced with detailed surface mapping (non-invasive) along the outcrops present on the Remaining Extent (RE), and Portion 1 (Remaining Extent) of the farm Makganyene No 667 in 2019 (Phase 1 & 2 in the PWP). This was followed by geo-physical surveys (non-invasive) comprising of limited ground magnetic and audio-magnetotelluric surveys covering portions of the same properties (Phase 3 in the PWP). Data collected during the above surveys served as motivation for the implementation of a first phase drilling campaign in two target areas (Phase 4 in the PWP) that commenced in July 2019.

The first phase drilling campaign was complete in 2021, and the modelling of the data was subsequently done. At the time of the inspection (25 July 2022), the second phase drilling campaign (Phase 5 in the PWP) was underway in Target Area 1. To date ±180 boreholes were drilled of which 40 were already successfully reinstated/rehabilitated (refer to the most recent drill plan at the end of this document). All the trenches (2 m wide x 2 m deep), dug as part of the prospecting activity, were reinstated at the time of the inspection, and no open trenches remain on site.

### SITE CONDITIONS

Clear sunny windless day with dry soil conditions.

## **REPORTABLE ENVIRONMENTAL INCIDENTS**

<b>Incident Date:</b>	No environmental incidents were noted during the audit, and according to site management thus far none occurred during the operational phase of the project.
<b>Incident No:</b>	
<b>Incident:</b>	
<b>How addressed:</b>	
<b>When addressed:</b>	

## **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



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**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 2017).	5	-	Compliant	The competent authority deems the approved EMP and PR of the operation compatible with an Environmental Authorisation in terms of the NEMA, 1998.
Copy of the EA and EMP available on site.	N/A	-	-	-
Mineral and Petroleum Resources Development Act, 2002 (Act No 28 of 2002).	5	-	Compliant	-
Prospecting right available on site.	5	-	Compliant	-
Copy of the approved prospecting plan available on site (Reg 2(2)/Reg 42)	5	-	Compliant	-
National Environmental Management: Air Quality Act, 2004 (Act No 39 of 2004).	5	-	Compliant	-
National Environmental Management: Waste Act, 2008 (Act No 59 of 2008).	5	-	Compliant	-
National Water Act, 1998 (Act 36 of 1998) (NWA).	TBC	-	-	Proof of compliance with the NWA needs to be provided by site management for the water used from the old excavation on the farm.
National Environmental Management: Biodiversity Act, 2004 (Act No 10 of 2004) (NEM:BA).	5	-	Compliant	No protected trees had to be removed because of the prospecting activities, and no weeds/invaser plants were noted in the work areas.
Hazardous Substances Act, 1973 (Act 15 of 1973).	5	-	Compliant	Although the diesel tank (at the site camp) has a bunded, site management must ensure that the capacity of the bund is able to contain 110% of the volume stored within it.
<b>TOPSOIL MANAGEMENT:</b>				
Topsoil stripping.	5	-	Compliant	The topsoil is stripped from each pad ( $\pm 100 \text{ m}^2$ ) before it is prospected.
Topsoil storage/stockpiling.	5	-	Compliant	The stripped topsoil is stockpiled along the boundary of the cleared pad.
Topsoil returned to rehabilitated area.	5	-	Compliant	-
<b>VEGETATION:</b>				
Protected plants (if any) sheltered from	5	-	Compliant	The contractor works around the large trees and bushes on



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DESCRIPTION	COMPLIANCE SCORE	NON-COMPLIANCE SCORE	STATUS	COMMENTS
prospecting activities.				site. The Shepherds Trees ( <i>Boscia albitrunca</i> ) noted near the prospecting areas were all intact and protected.
Aliens & weeds controlled on site.	N/A	-	-	No listed weeds/invaser plants were noted in the prospected areas at the time of the inspection.
No crisscrossing through undisturbed areas.	5	-	Compliant	-
<b>FAUNA:</b>				
All animals, birds and reptiles protected on site.	5	-	Compliant	When encountered, snakes are released into the veld without being harmed.
Boreholes covered to prevent trapping of animals.	5	-	Compliant	All the (finished) boreholes were either capped or closed with a collar where applicable. No open boreholes (except the ones being drilled) were noted during the inspection.
Operational areas daily inspected for signs of trapped animals.	5	-	Compliant	-
<b>AIR QUALITY &amp; NOISE:</b>				
Dust suppression implemented.	5	-	Compliant	When needed.
Speed of vehicles controlled to lessen dust generation and road deterioration.	5	-	Compliant	-
Noise controlled on site.	5	-	Compliant	-
Hearing protection available to employees.	5	-	Compliant	-
<b>ARCHAEOLOGICAL AND CULTURAL INTEREST:</b>				
Archaeological and/or cultural remnants protected.	N/A	-	-	No archaeological or cultural remnants were discovered during the prospecting activities, nor did prospecting take place near the heritage features of the site.
<b>SURFACE WATER:</b>				
Erosion, caused by prospecting activities, controlled on site.	N/A	-	-	No areas of concern were noted at the time of the inspection.
No servicing of vehicle on site, and/or drip trays used during emergency break downs	5	-	Compliant	-
<b>VISUAL EXPOSURE:</b>				
Is the contractor implementing good visual and housekeeping standards.	5	-	Compliant	At the time of the inspection the site was neat and well managed.

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DESCRIPTION	COMPLIANCE SCORE	NON-COMPLIANCE SCORE	STATUS	COMMENTS
<b>MANAGEMENT OF FUEL AND HAZARDOUS PRODUCTS:</b>				
Hazardous material stored within a bunded area (110% capacity).	5	-	Compliant	As mentioned earlier, site management must ensure that the bund of the diesel tank is of adequate size.
Management of fuel and oil spills.	4	3	To be addressed	Hydrocarbon spills must be cleaned immediately after occurrence and the soil must be treated as hazardous waste.
Drip trays present when refuelling is done outside a service bay.	5	-	Compliant	-
Sealed drip trays used and managed on site.	5	-	Compliant	-
Prospecting equipment mechanically sound without visible oil leaks.	5	-	Compliant	This appeared to be true.
Oil spill kit available on site.	5	-	Compliant	-
<b>WASTE MANAGEMENT:</b>				
Site free of day-to-day litter.	5	-	Compliant	-
Waste collected in sealable containers.	5	-	Compliant	-
General waste dumped at a recognised landfill site.	4	3	Records to be updated	Site management confirmed that the general waste is taken to the Postmasburg landfill site. The landfill does not provide any type of receipt or delivery note. Therefore the use of a general waste register was proposed.
Hazardous waste removed by a registered waste handling contractor.	4	3	Records to be updated	The hazardous waste of the site was thus far removed to Turner in Postmasburg. As discussed on site, Turner must provide the site with a proof of receipt every time hazardous waste is delivered to them.
Spillages not disposed of into the environment, ditches, drains or water courses.	5	-	Compliant	The site has hazardous waste bins as well as oil spill kits to contain the hazardous material.
Waste disposal permits on site.	4	3	To be implemented	As mentioned earlier the proof of safe delivery must be filed on site for auditing purposes.
No waste stockpile allowed in- or outside the boundaries of the prospecting area.	5	-	Compliant	-
Sanitation facilities available to employees.	5	-	Compliant	Sanco was contracted to service the toilets on site.
<b>FIRE MANAGEMENT:</b>				
Firefighting equipment available on-site.	5	-	Compliant	-
No open fires allowed on site.	5	-	Compliant	-



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DESCRIPTION	COMPLIANCE SCORE	NON-COMPLIANCE SCORE	STATUS	COMMENTS
Major fires or explosions reported.	N/A	-	-	No fire/explosion occurred during the audit period.
<b>EQUIPMENT MANAGEMENT:</b>				
Prospecting contained to the approved area.	5	-	Compliant	-
Unnecessary surface disturbance avoided.	5	-	Compliant	-
Progressive rehabilitation implemented as prospecting continues.	5	-	Compliant	At the time of the inspection 40 drill sites and all the trenches were already rehabilitated.
<b>ACCESS ROADS AND VEHICLES MANAGEMENT:</b>				
Access road maintained.	5	-	Compliant	-
Movement of project related vehicles and machinery restricted to the approved prospecting area. No crisscrossing through undisturbed areas.	5	-	Compliant	-
Vehicle repairs only conducted in service bay area, and waste products disposed of in containers/bins.	N/A	-	-	No servicing of vehicles/equipment takes place at the prospecting area.
Speed limit enforced within the area.	5	-	Compliant	-
<b>EMPLOYEE AND SAFETY MANAGEMENT:</b>				
Workers inducted and informed of EMP conditions.	5	-	Compliant	-
Proof of training available.	5	-	Compliant	-
Workers provided with PPE.	5	-	Compliant	-
Effective access control to prevent unauthorised entry.	5	-	Compliant	-

**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 EMP AND REPORTING THEREOF  
(REGULATION 34):**

<b>Date of previous EAR/EPA:</b>	25 June 2021
<b>Proof of submission of previous EAR/EPA to DMRE available:</b>	The EPA was submitted to the DMRE on 14 July 2021.
<b>EAR/EPA compiled by independent person with environmental auditing expertise:</b>	Greenmined Environmental (Pty) Ltd compiled the EPA.
<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 affected landowners were informed of the submission of the EPA, and the availability of the report on the Greenmined website on 12 July 2021.

**GENERAL REPORT**

Compliance of the prospecting area with the EMPR was reviewed during the site assessment. The site recorded a compliance score of 98% for the audit period.

As mentioned, at the time of the inspection the second phase drilling campaign was in progress.

**Site Camp:**

The site camp was neatly managed at the time of the inspection. The site has a COVID screening area, with mobile containers used for storage and offices. Various bins (with lids) were designated for the separation of general waste. There is also a hazardous waste bin, into which the contaminated soil and other hazardous waste can be placed.

The drilling equipment is neatly stored and demarcated, and the diesel tank was placed inside a temporary bund that will shortly (according to site management) be replaced with a steel bund of adequate size. As discussed on site, all generators must be placed in drip trays to prevent minor spills during refuelling.

Site management must ensure that any waste leaving the prospecting operation is recorded and that safe disposal certificates are available for auditing purposes. As the Postmasburg Landfill site does not supply disposal receipts, it was suggested that the site implement the use of waste registers, to proof the frequency, amount, and location where general waste is disposed. When hazardous waste is removed to Turner (Postmasburg), proof of safe delivery must be obtained for each load, and the safe disposal certificates must be filed at the site office. It is of the utmost importance that the cradle-to-grave principle is implemented, meaning

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that the site must be able to prove what happens to the site related waste from generation to final disposal.

The MSDS's (Material Safety Data Sheets) of the chemicals used on site, are available in the site file. The site also has on-line incident and complaints (non-conformance) registers.

According to site management, the periodic sieving of diamond gravel by third parties (authorised by the landowner) at the abandoned diamond mine on the farm, referred to in the 2021 EPA, has come to an end.

As mentioned earlier, site management must provide proof that the water from the old excavation on the property is used in agreement with the landowner and NWA. It was also proposed that a tally sheet be started to monitor the water usage of the site.

### **Prospecting Area:**

The prospecting trenches were all neatly reinstated and levelled. As discussed on site, brush and old branches can be placed over the reinstated areas for added protection, however care should be taken that the brush/wood does not create an added fire risk. It is proposed that sufficient fire breaks must be left in the row of brush/wood to prevent a veld fire running the entire length of the trench should it occur.

Site management confirmed that the reinstated areas (trenches and drill sites) will be seeded during the next growth season. However, it was pleasing to see that at the time of the inspection, some pioneer plants already started germinating in the reinstated areas.

As discussed on site, any hydrocarbon spills need to be cleaned immediately after occurrence and the soil must be treated as hazardous waste. The operational drilling sites (that were visited), were neatly managed and work was taking place in between the Shepperd's Trees (*Boscia albitrunca*) where applicable. General- and hazardous waste bins were noted on site, as well as an oil spill kit. The contractor also placed speed reducing signage along the internal roads.

### **DOCUMENT CHECKLIST:**

At the time of the inspection the following documents were available on site:

- Prospecting Right;
- Prospecting Works Program (both the approved and amended PWP);
- Letters of Appointments;
- Final Basic Assessment Report submitted in support of the Section 102 Application;
- Surface Use Agreement;
- Regulation 42 Plan;
- Approved EMPR;
- Hazardous Waste Management Registers;
- Proof of sewerage disposal;
- Incidents Register;
- Complaints Register;
- Proof of Environmental Awareness Training; and
- Material Safety Data Sheets (of all chemicals used on site).

It is proposed the following documents also be added to the site file:

- Latest Financial Provision Calculation;
- Latest Environmental Assessment Report;
- General Waste Management Register; and
- Proof of Waste Disposal.

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**MATTERS TO BE ADDRESSED:**

1. Clean all hydrocarbon spills at the drill sites;
2. Seed the reinstated areas during the growth season;
3. Replace the temporary bund of the diesel tank with a more permanent one of adequate size;
4. Ensure all waste removal can be backed up by safe disposal certificates/registers;
5. Proof compliance with the NWA and start a tally sheet to monitor water usage.

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

The amended EMPR that was approved as part of the Section 102 amendment application in terms of the MPRDA, 2002 adequately manage and mitigate the environmental impacts of the activity.


**NEED FOR AMENDMENT OF THE EMP:**

No need was identified for the amendment of the amended EMPR.

**FINANCIAL PROVISION:**

This EAR/EPA is accompanied by the annual review of the financial provision amount for the rehabilitation of the prospecting area. The PR Holder has a rehabilitation amount of R 165 337.63 lodged with the DMRE. The 2022 financial provision required to rehabilitate the prospecting area in accordance with the Guideline Document for the Evaluation of the Quantum of Closure-related Financial Provision by a Mine and as prescribed in terms of Regulation 54 (1) is R 164 415.40. The 2022 financial provision does not exceed the value of rehabilitation amount in place at the DMRE, and the PR Holder therefore does not have to provide a shortfall.

**ECO SIGNATURE**

NAME:	SIGNATURE:	DATE:
Christine Fouche		01 August 2022

**PHOTOGRAPHS**

**DRILL SITES**



Drill site that was established adjacent to a Sheperd's Tree without affecting it



Capped drill site where rehabilitation still needs to be finalised



Capped drill site where hydrocarbon spills must be cleaned and rehabilitation still needs to be finalised

DRILL SITES



Neatly reinstated drill site (MK0160) to be seeded in the growth season



Neatly reinstated drill sites (MK0050 & 0118) to be seeded in the growth season



DRILL SITES



Drilling in progress



Chemical toilets used on site



Waste bins used on site, and chemicals contained in a drip tray



Drip tray used on site



Oil spill kit

DRILL SITES



Fire extinguishers available on site



Speed reducing signage

REINSTATED TRENCHES



Neatly reinstated trenches to be seeded during the growth season

# ENVIRONMENTAL PERFORMANCE ASSESSMENT MAKGANYANE PROSPECTING

## SITE CAMP



Neatly managed site camp



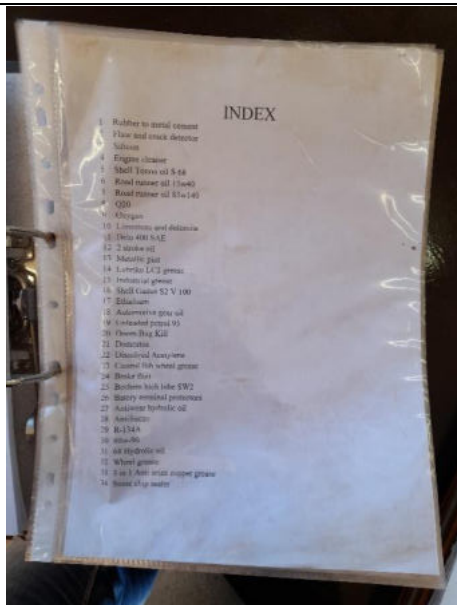
Diesel tank with bund. Generator to be placed in a drip tray



Hazardous waste bin on site



General waste bins



MSDS register and documents on site

## SITE CAMP

Hazardous waste disposal register

Location	Amount	Time	Date	Sign
Turnout	220kwh/600 ltr	11:30	08/06/2012	William Muda



Hazardous waste register

Proof of sewerage removal

MOST RECENT DRILL PLAN:

