

**BORROW PIT NO. 6 FOR ROAD
MR950 ON FARM NO. 107
PETERSHAM**

ENVIRONMENTAL MANAGEMENT PLAN

FOR
NORTHERN CAPE
DEPARTMENT OF ROADS AND PUBLIC WORKS

MARCH 2014



Terra Works Environmental Consultants
Physical Address: No. 41, Frans Kleynhans Drive, Groenvlei
Postal Address: P.O. Box 28242, Danhof, 9310
Telephone: 051 412 6350, Fax: 051 412 6351
Contact Person: Samuel Pauw

BORROW PIT DETAILS:

BORROW PIT NAME: Borrow Pit No 6 For MR950 Road

FARM NAME: Farm Petersham No. 107

LOCAL MUNICIPALITY: Joe Morolong Local Municipality

COMMODITY TYPE: Gravel for Road Construction

MINING METHOD: Surface Mining

BORROW PIT COORDINATES: LO23

Name	y	x
<u>Borrow Pit Area</u>		
A	-86181.22	3010275.80
B	-86288.88	3010325.53
C	-86033.33	3010710.71
D	-85989.66	3010690.55

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mineral resources

Department:
Mineral Resources
REPUBLIC OF SOUTH AFRICA

NAME OF APPLICANT: **DEPARTMENT OF ROADS AND PUBLIC WORKS**

REFERENCE NUMBER:

ENVIRONMENTAL MANAGEMENT PLAN

**SUBMITTED
IN TERMS OF SECTION 39 AND OF REGULATION 52
OF THE MINERAL AND PETROLEUM RESOURCES
DEVELOPMENT ACT, 2002,
(ACT NO. 28 OF 2002) (the Act)**

STANDARD DIRECTIVE

Applicants for prospecting rights or mining permits, are herewith, in terms of the provisions of Section 29 (a) and in terms of section 39 (5) of the Mineral and Petroleum Resources Development Act, directed to submit an Environmental Management Plan strictly in accordance with the subject headings herein, and to compile the content according to all the sub items to the said subject headings referred to in the guideline published on the Departments website, within 60 days of notification by the Regional Manager of the acceptance of such application. This document comprises the standard format provided by the Department in terms of Regulation 52 (2), and the standard environmental management plan which was in use prior to the year 2011, will no longer be accepted.

IDENTIFICATION OF THE APPLICATION IN RESPECT OF WHICH THE ENVIRONMENTAL MANAGEMENT PLAN IS SUBMITTED.

ITEM	COMPANY CONTACT DETAILS
Name	Northern Cape Department of Roads and Public Works
Tel no	053 839 2100
Fax no:	053 839 2290/1
Cellular no	-
E-mail address	-
Postal address	P. O. Box 3132, Square Hill Park, Kimberley, 8301

ITEM	CONSULTANT CONTACT DETAILS (If applicable)
Name	Terra Works
Tel no	051 412 6350
Fax no:	051 412 6351
Cellular no	084 700 9700
E-mail address	sp@terraworks.co.za
Postal address	P.O. Box 28242, Danhof, 9310
	Samuel Pauw

DESCRIPTION OF AFFECTED ENVIRONMENT

1 REGULATION 52 (2): Description of the environment likely to be affected by the proposed prospecting or mining operation

1.1 The environment on site relative to the environment in the surrounding area.

The borrow pit is situated on Farm Petersham and is adjacent to gravel road MR950 which goes to Dithakong. It is located next to an existing borrow pit. The nearest residential dwelling is more than 800m from the borrow pit.

This site falls in the savanna biome and the vegetation type is classified as the Kalahari Plateau Bushveld. There are a few trees and grass in the area. In general, this is a fairly dense bushveld composed of shrubs, and some trees, in a mixed grassland. During assessment of the site, no animals were noted

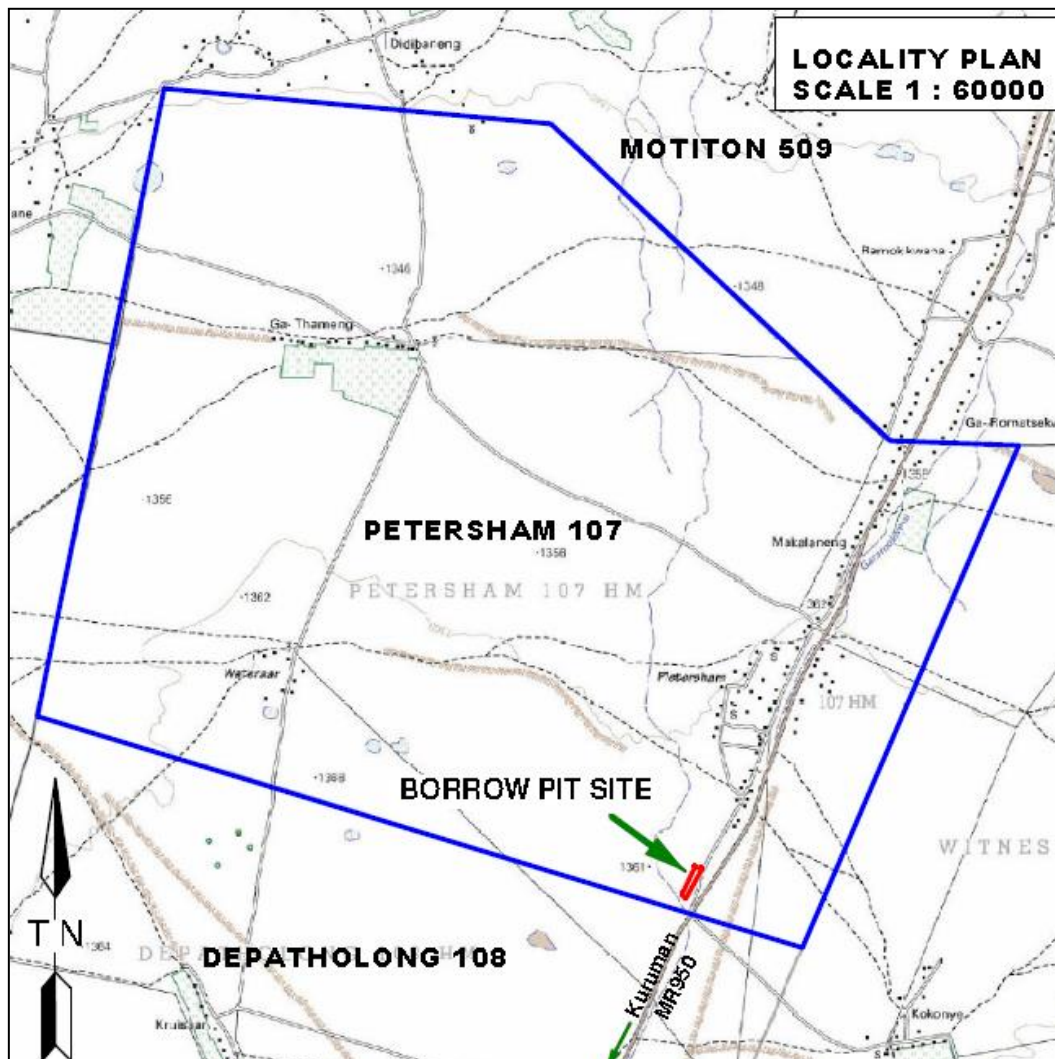
The soils on site area light brown loamy soils. The area where the borrow pit is sited is generally flat. The photographs below show typical vegetation of site.



1.2 The specific environmental features on the site applied for which may require protection, remediation, management or avoidance.

There are no specific features on the area that require avoidance, however, the removal of vegetation to facilitate the excavation of gravel and the movement of machinery will need to be managed

1.3 Map showing the spatial locality of all environmental, cultural/heritage and current land use features identified on site.



1.4 Confirmation that the description of the environment has been compiled with the participation of the community, the landowner and interested and affected parties,

The borrow pit description was compiled in consultation with the community as shown by the minutes of the meetings done that are in

Appendix 4. An agreement was reached with the community leadership to utilise the borrow pit and this is also attached in the Appendix 4.

POTENTIAL IMPACTS OF THE MINING OPERATION

2 REGULATION 52 (2) (b): Assessment of the potential impacts of the proposed prospecting or mining operation on the environment, socio-economic conditions and cultural heritage.

2.1 Description of the proposed prospecting or mining operation.

2.1.1 The main prospecting activities (e.g. access roads, topsoil storage sites and any other basic prospecting design features)

Areas that will be dedicated for the storage of topsoil will be demarcated prior to the commencement of stripping when mining starts. An existing access road from the main road will be used to reach the borrow pit. This access road might require to be extended. The access road will need to be extended for the borrow pit. The borrow pit will only make use of mobile equipment on site so no buildings will be constructed on site.

2.1.2 Plan of the main activities with dimensions

The borrow pit is going to be 3.81 ha. The borrow pit diagram is shown in Appendix 1, together with the expected dimensions of the borrow area. No borrow pit infrastructure apart from the provision of adequate fencing barriers, beacons and signage is expected at the borrow pit.

2.1.3 Description of construction, operational, and decommissioning phases.

No buildings are going to be put on site. No construction of infrastructure apart from the provision of adequate fencing, barriers and beacons is expected at the borrow pit.

The method of mineral extraction will be surface based. The overall mining plan will entail removal of soil and overburden from the borrow pit zone using heavy machinery to push off the soil fraction and overburden. The topsoil will be stripped and stored separately from the other overburden in areas where it will not be disturbed when the borrow pit is in operation. Heavy machinery will be used to excavate the gravel which is required for road construction. The gravel will be removed with front end loaders and will be loaded onto tipper trucks that will transport it to the areas where it will be used. No mineral processing water will be required for processing, but water will be required to suppress dust on roads and during excavating. Whilst drilling and

blasting is not expected at this borrow pit, for gravel removal, it should be noted that in the event that hard material is encountered that hinders removal of gravel, it might be carried out as necessary to facilitate the removal of required material gravel material.

The decommissioning phase and rehabilitation phase will consist of removal of unwanted infrastructure such as fences, beacons and access road. This will be followed by profiling of the borrow pit to ensure long term stability and that it is in sync with the surrounding landscape. Thereafter, the disturbed areas will be re-topsoiled and re-vegetated.

2.1.4 Listed activities (in terms of the NEMA EIA regulations)

According to Listing Notice 1 Activity No. 20 of GNR 544 of 18 June 2010, a basic assessment is required for an activity requiring the application of a mining permit. However, in terms of the MPRDA Government Notice No. R762 of 25 June 2004, which deals with exemptions of organs of state from certain provisions of the MPRDA, the Northern Cape, Department of Roads and Public Works is exempted to apply for a mining permit in order to remove any mineral for the construction and maintenance of roads but is still required to submit an environmental management plan to the department of mineral resources for approval

2.2 Identification of potential impacts

(Refer to the guideline)

2.2.1 Potential impacts per activity and listed activities.

	ACTIVITY	POTENTIAL IMPACTS
1	Site Preparation	<ul style="list-style-type: none"> • Loss of vegetation • Habitat Destruction • Visual scarring • Soil erosion
2	Excavations	<ul style="list-style-type: none"> • Surface disturbances • Dust emissions • Drainage interruption • Noise • Slope instability • Visual Scarring • Soil erosion
3	Blasting (if done)	<ul style="list-style-type: none"> • Fly rock • Noise and vibrations
4	Stockpiles	<ul style="list-style-type: none"> • Dust • Surface disturbances • Drainage disruption

5	Loading, Hauling and transportation	<ul style="list-style-type: none"> • Dust • Increased risk of accidents • Noise • Soil contamination from oil/fuel leaks
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2.2.2 Potential cumulative impacts.

Loss of Vegetation: The removal of vegetation to make way for the borrow pit activities at the project site in the area will result habitat destruction.

2.2.3 Potential impact on heritage resources

A visual assessment was done during the walkabout of the site. The assessment revealed that:

- There is no evidence of graves, graveyards or historical structures within the confines of the proposed borrow pit.
- There are also no indications of prehistoric structures or rock engravings within the survey areas.
- The site is not near any declared heritage site.
- Impact on potential heritage resources at the site is considered to be low.

However as excavating forms part of the project activities, there is a slim possibility that items of heritage significance such as archaeological and paleontological objects, graves and burial grounds, or geological sites of scientific or cultural importance can be uncovered.

2.2.4 Potential impacts on communities, individuals or competing land uses in close proximity.

(If no such impacts are identified this must be specifically stated together with a clear explanation why this is not the case.)

The area is on is on open communal land. The area is barely visible from the main road. It is highly unlikely that the community will be affected by impacts on site.

2.2.5 Confirmation that the list of potential impacts has been compiled with the participation of the landowner and interested and affected parties,

Meetings were done with the community and its leadership and these they were made aware of the potential impacts. Minutes of the meetings are attached in Appendix 4.

2.2.6 Confirmation of specialist report appended.
(Refer to guideline)

No specialist report is attached.

IMPACT ASSESSMENT AND MITIGATION MEASURES

3 REGULATION 52 (2) (c): Summary of the assessment of the significance of the potential impacts and the proposed mitigation measures to minimise adverse impacts.

3.1 Assessment of the significance of the potential impacts

3.1.1 Criteria of assigning significance to potential impacts

The significance of potential impacts is derived through a synthesis of ratings of all criteria in the following calculation:

(Duration + Intensity) x Probability = Significance

The significance of a potential impact on decision-making is indicated through significance points in the right hand column of the table below. The significance points indicate the following:

- **Low** (Significance points (SP) < 50): The impact will not have an influence on the project design;
- **Moderate** (SP between 50 and 75): It could have an influence on the environment and will require modification of the project design or operational mitigation methods;
- **High** (SP > 75): It could be a major implication on the project regardless of any mitigation

Table 1: Assessing Impacts for significance

Impact	Duration	Intensity	Probability	Significance points (SP) and rating
Example. Soil contamination from hazardous substances before mitigation	Permanent - 5	Very high / don't know - 5	Definite / don't know - 10	High SP > 75
	Long term - 4	High - 4	High probable - 8	Moderate SP 50 to 75
	Medium term- 3	Moderate - 3	Medium probability - 6	Low SP < 50
	Short term - 2	Low - 2	Low probability - 4	
	Immediate - 1	Minor - 1	Improbable - 2	

3.1.2 Potential impact of each main activity in each phase, and corresponding significance assessment

	Activity	Impact	Duration	Intensity	Probability	Significance Rating	
1	Site Preparation	Loss of vegetation	3	5	10	80	High
		Habitat Destruction	3	5	10	80	High
		Visual scarring	3	4	8	56	Medium
		Soil erosion	3	4	6	42	Low
2	Excavations	Dust emissions	2	5	8	56	Medium
		Surface disturbances	4	4	10	80	High
		Drainage interruption	4	4	10	80	High
		Slope instability	4	3	6	42	Low
		Noise	2.5	5	10	75	High
		Visual Scarring	3	4	8	56	Medium
		Soil erosion	3	4	6	42	Low
3	Blasting (if done)	Fly rock	2.5	5	10	75	High
		Noise and vibrations	2.5	5	10	75	High
		Dust	2.5	5	10	75	High
4	Stockpiles	Dust	2	5	8	56	Medium
		Surface disturbances	3	5	10	80	High
		Drainage disruption	2.5	5	10	75	High
5	Loading, Hauling and transportation	Dust	2	5	10	70	Medium
		Increased risk of accidents	2	4	4	16	Low
		Noise	2.5	5	10	75	High
		Soil contamination from oil/fuel leaks	3	3	6	36	Low

3.1.3 Assessment of potential cumulative impacts.

Impact	Duration	Intensity	Probability	Significance Rating	
Habitat Destruction	3	5	5	40	Low

3.2 Proposed mitigation measures to minimise adverse impacts.

3.2.1 List of actions, activities, or processes that have sufficiently significant impacts to require mitigation.

- Clearance of area for mining activities
- Excavation of material
- Stockpiling
- Loading, hauling and transportation of material
- Use of vehicle and earth moving machinery
- Drilling and blasting if it is carried out
- Waste Disposal

3.2.2 Concomitant list of appropriate technical or management options

(Chosen to modify, remedy, control or stop any action, activity, or process which will cause significant impacts on the environment, socio-economic conditions and historical and cultural aspects as identified. Attach detail of each technical or management option as appendices)

Detailed technical and management options for mitigation are given in Appendix 2

3.2.3 Review the significance of the identified impacts

(After bringing the proposed mitigation measures into consideration).

	Activity	Impact	Duration	Intensity	Probability	Significance Rating	
1	Site Preparation	Loss of vegetation	3	3	8	48	Low
		Habitat Destruction	3	3	8	48	Low
		Visual scarring	3	3	6	48	Low
		Soil erosion	3	4	6	42	Low
2	Excavations	Dust emissions	2	3	6	30	Low
		Surface disturbances	3	3	6	48	Low
		Drainage interruption	3	4	6	42	Low
		Slope instability	3	3	4	24	Low
		Noise	2	4	6	36	Low
		Visual Scarring	3	3	8	48	Low
		Soil erosion	3	3	5	30	Low
3	Blasting	Fly rock	2	3	6	30	Low
		Noise and vibrations	2	3	6	30	Low
		Dust Emissions	2	3	6	30	Low
4	Stockpiles	Dust	2	3	4	20	Low

	Activity	Impact	Duration	Intensity	Probability	Significance Rating	
		Surface disturbances	3	3	6	36	Low
		Drainage disruption	2	3	4	20	Low
5	Loading, Hauling and transportation	Dust Emissions	2	3	6	30	Low
		Increased risk of accidents	2	3	3	15	Low
		Noise	2	3	6	30	Low
		Soil contamination from oil/fuel leaks	3	3	4	24	Low

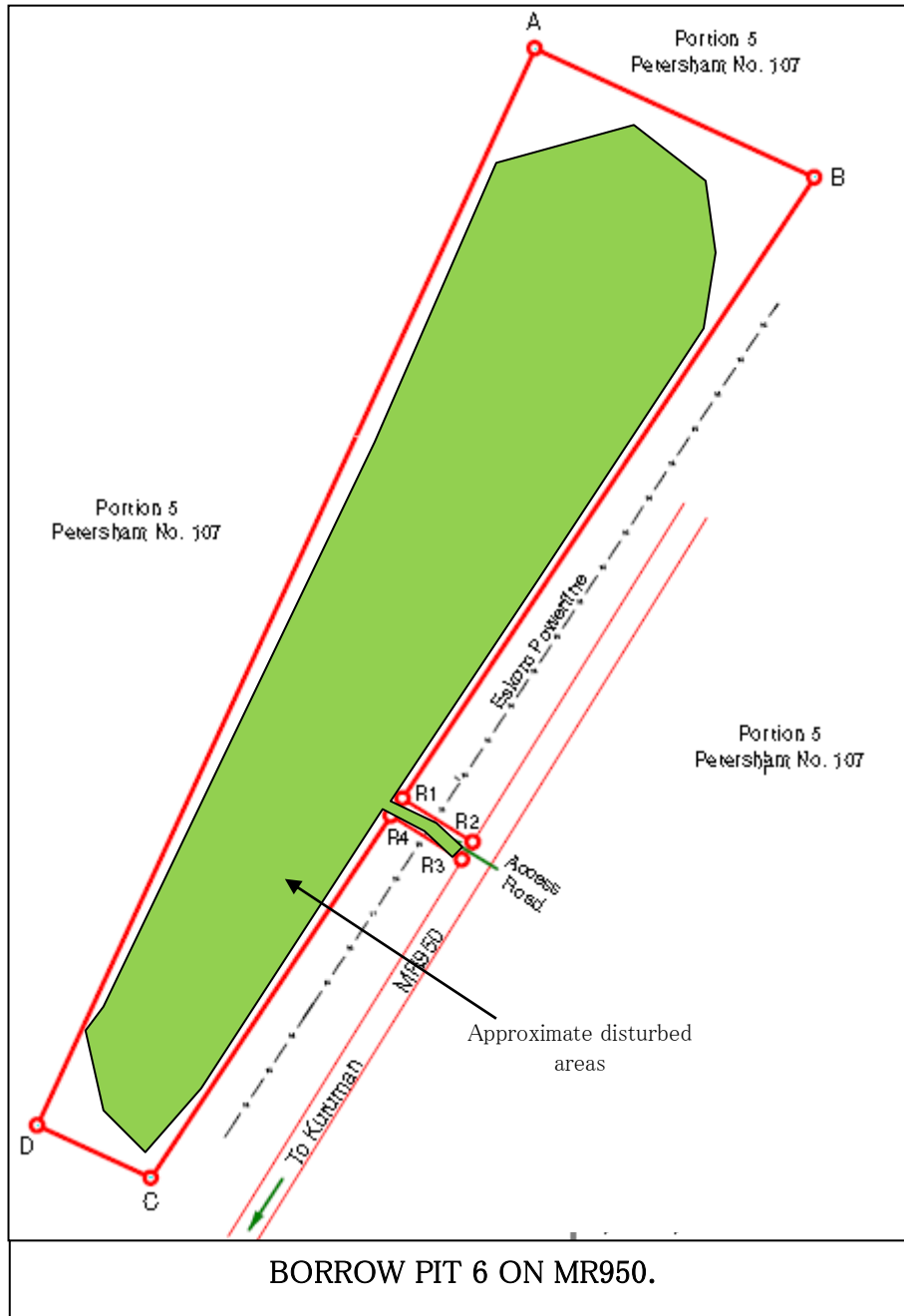
FINANCIAL PROVISIONS

4 REGULATION 52 (2) (d): Financial provision. The applicant is required to-

4.1 Plans for quantum calculation purposes.

(Show the location and aerial extent of the aforesaid main mining actions, activities, or processes, for each of the construction operational and closure phases of the operation).

About a third of the area covered by the borrow pit will be disturbed as a result of excavations done.



4.2 Alignment of rehabilitation with the closure objectives

(Describe and ensure that the rehabilitation plan is compatible with the closure objectives determined in accordance with the baseline study as prescribed).

The rehabilitation plan is described and provided for in Appendix 3. The rehabilitation plan covers:

- **Rehabilitation of Access Road**
- **Rehabilitation of storage areas and plant structures**
- **Rehabilitation of excavations and**
- **Rehabilitation of contaminated areas**

The borrow pit operator must perform progressive rehabilitation as material extraction is done. Progressive rehabilitation means rehabilitation done sequentially within a reasonable time after extraction of borrow pit resources is complete. As one area of the pit or borrow pit is being extracted, rehabilitation must be completed in the areas where the borrow pit reserves have been stopped or exhausted. Progressive rehabilitation is beneficial in many ways as it reduces the open areas within a borrow pit, reduces soil erosion potential and reduces double-handling of soil / waste materials.

The key aims of the rehabilitation are to eliminate unacceptable risks by establishing a safe, stable and non polluting post-mining land surface which supports vegetation growth and the vegetation growth should be sustainable over the long term. It is also targeted at minimising the downstream impacts on the ecosystem due to the interruption of drainage system.

4.3 Quantum calculations.

(Provide a calculation of the quantum of the financial provision required to manage and rehabilitate the environment, in accordance with the guideline prescribed in terms of regulation 54 (1) in respect of each of the phases referred to).

See the spreadsheet below.

Applicant: Department of Roads and Public Works

Location: Borrow Pit No6 on MR950 Road
Date: Mar-14

No.	Description	Unit	A	B	C	D	E=A*B*C*D
			Quantity	Master Rate	Multiplication factor	Weighting factor 1	Amount (Rands)
1	Dismantling of processing plant and related structures (including overland conveyors and powerlines)	m3	0	10,87	1	1	0
2 (A)	Demolition of steel buildings and structures	m2	0	151,42	1	1	0
2(B)	Demolition of reinforced concrete buildings and structures	m2	0	223,14	1	1	0
3	Rehabilitation of access roads	m2	256,00	27,1	1	1	6937,6
4 (A)	Demolition and rehabilitation of electrified railway lines	m	0	262,98	1	1	0
4 (A)	Demolition and rehabilitation of non-electrified railway lines	m	0	143,45	1	1	0
5	Demolition of housing and/or administration facilities	m2	0	302,83	1	1	0
6	Opencast rehabilitation including final voids and ramps	ha	0	158747,3	1	1	0
7	Sealing of shafts adits and inclines	m3	0	81,29	1	1	0
8 (A)	Rehabilitation of overburden and spoils	ha	0,01	105831,5	1	1	1058,3151
8 (B)	Rehabilitation of processing waste deposits and evaporation ponds (non-polluting potential)	ha	0	131811,2	1	1	0
8 (C)	Rehabilitation of processing waste deposits and evaporation ponds (polluting potential)	ha	0	382842,3	1	1	0
9	Rehabilitation of subsided areas	ha	0	88617,95	1	1	0
10	General surface rehabilitation	ha	1,3	83836,41	1	1	108987,333
11	River diversions	ha	0	83836,41	1	1	0
12	Fencing	m	781	95,63	1	1	74687,03
13	Water management	ha	0	31876,96	1	1	0
14	2 to 3 years of maintenance and aftercare	ha	1,3	11156,92	1	1	14503,996
15 (A)	Specialist study	Sum	0			1	0
15 (B)	Specialist study	Sum				1	0
Sub Total 1							206174,2741

1	Preliminary and General	24740,91289	weighting factor 2		24740,91289
			1		
2	Contingencies		20617,42741		20617,42741
Subtotal 2					251532,61
VAT (14%)					35214,57
Grand Total					286747

4.4 Undertaking to provide financial provision

(Indicate that the required amount will be provided should the right be granted).

The applicant commits to provide the amount as determined and needed as financial provision by the Department of Mineral Resources.

MONITORING AND PERFORMANCE

5 REGULATION 52 (2) (e): Planned monitoring and performance assessment of the environmental management plan.

5.1 List of identified impacts requiring monitoring programmes.

- **Removal of Vegetation**
- **Slope instability**
- **Soil erosion**
- **Soil contamination**

5.2 Functional requirements for monitoring programmes.

- **A visual inspection will be done on a daily basis to check that there are no leaking vehicles, evidence of erosion, slope subsidence and presence of any other physical pollution. Any non compliant item will be immediately rectified and recorded on a weekly basis. Monitoring will start at the commencement of the project and will continue until closure.**
- **A monthly checklist will be developed to check all issues of compliance and any issues that are non compliance will be rectified immediately. The checklist will include the status of slopes stability, erosion on site, vegetation removal and the status of the machinery being used on site.**
- **An independent environmental practitioner must audit the place once six months to ensure environmental issues are in compliance and make recommendations for improvement if necessary.**

5.3 Roles and responsibilities for the execution of monitoring programmes.

It is the responsibility of the applicant, the Northern Cape Department of Roads and Public Works to ensure that the monitoring program is fully

implemented. The applicant shall appoint an independent environmental control person to inspect and audit the place.

5.4 Committed time frames for monitoring and reporting.

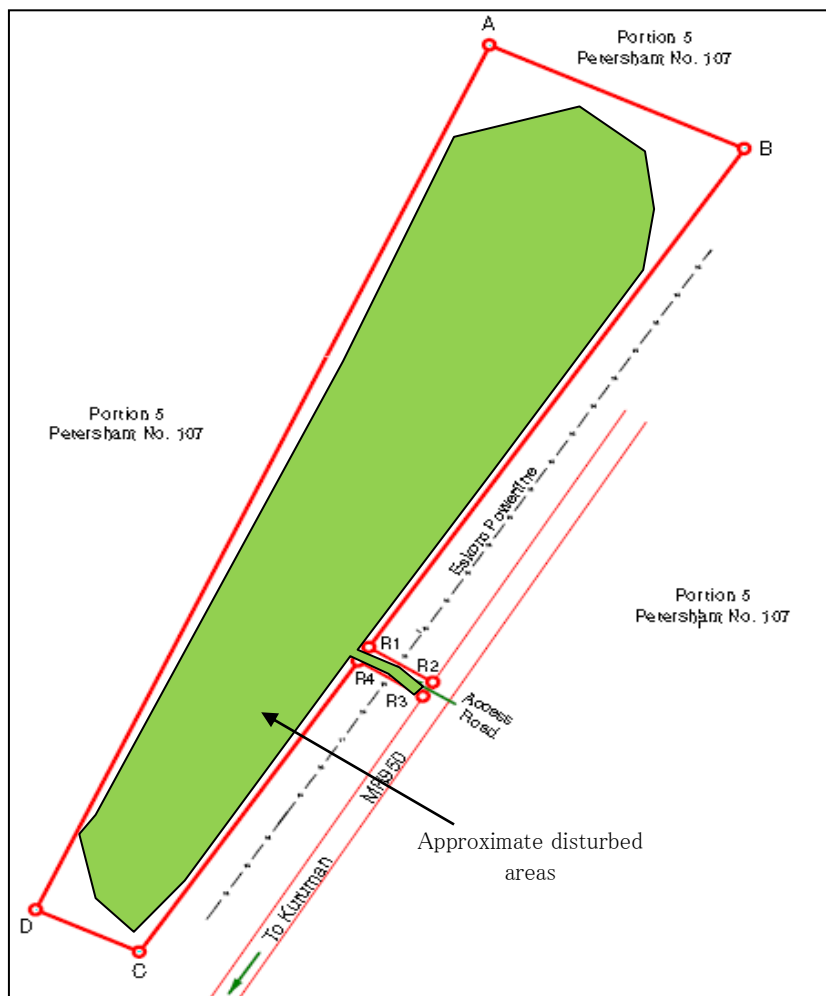
Monthly checklist will be filled in and monthly report on non conformances observed and corrective and preventative action taken will be done.

CLOSURE AND ENVIRONMENTAL OBJECTIVES

6 REGULATION 52 (2) (f): Closure and environmental objectives.

6.1 Rehabilitation plan

(Show the areas and aerial extent of the main prospecting activities, including the anticipated prospected area at the time of closure).



6.2 Closure objectives and their extent of alignment to the pre-mining environment.

- **To create a post mining environment that eliminates unacceptable health hazards and ensures public safety and is in line with applicable legislation**
- **To establish a safe and stable post-mining land surface which has been rehabilitated, that supports vegetation growth, is erosion resistant and has long term sustainability.**
- **To leave the site in a stable, non-polluting and tidy condition with no remaining plant or infrastructure that is not required by the landowner.**
- **To minimise or eliminate the downstream environmental impacts on the ecosystem due to interruption of drainage once the borrow pit operations cease**

6.3 Confirmation of consultation

(Confirm specifically that the environmental objectives in relation to closure have been consulted with landowner and interested and affected parties).

An agreement was reached that the area will be rehabilitated. It will be left in a safe and stable condition for both animals and people. In addition the areas should be fenced off.

PUBLIC PARTICIPATION

7 REGULATION 52 (2) (g): Record of the public participation and the results thereof.

7.1 Identification of interested and affected parties.

(Provide the information referred to in the guideline)

The following were identified as interested and affected parties.

- **The local community**
- **The traditional leadership of the area.**
- **Department of Cooperative Governance, human settlements and Traditional Affairs**
- **Forestry Directorate – Department of Agriculture, Fisheries and Forestry**

- The Department of Water Affairs
- The Northern Cape Provincial Heritage Resources Agency
- The Northern Cape Department of Agriculture, Land Reform and Rural Development.

In addition, an advertisement was put in the Die Gemsbok of 31 January 2014 notifying the public of the intention to mine and the environmental process and to allow any other interested party to comment on the issue. Site notices were also strategically placed near the borrow pit to allow nearby residents to register as interested and affected parties. The land where the borrow pit is to be situated is not involved in any land claim. The details of the public participation is given in Appendix 4 where minutes of the meetings are attached.

7.2 The details of the engagement process.

7.2.1 Description of the information provided to the community, landowners, and interested and affected parties.

They were provided with a summary of what the environmental impact assessment process entails. The minutes of the meeting is shown in Appendix 4. A meeting was done with the tribal leaders and an agreement was reached with the tribal leaders and this is also shown in appendix 4.3. Letters were written to the government departments who were provided with an information document summarising the borrow pit location and key activity and a draft EMP report. A meeting was held with the community and the minutes meeting details are given in appendix 4.

7.2.2 List of which parties identified in 7.1 above that were in fact consulted, and which were not consulted.

All the parties identified and specifically listed above were consulted.

7.2.3 List of views raised by consulted parties regarding the existing cultural, socio-economic or biophysical environment.

- The community has had problems with contractors who have previously left the borrow pits un-rehabilitated with steep slopes that cause injury to animals. The community would like assurance that this kind of behaviour will not be repeated.

7.2.4List of views raised by consulted parties on how their existing cultural, socio-economic or biophysical environment potentially will be impacted on by the proposed prospecting or mining operation.

The community asked the following questions:

- How will the people who are not going to be employed by the road project benefit from the project?
- If one Tribal authority refuses to grant the project permission to use borrow pits in their area would this stop the road project, as the road spans through areas under different Tribal authorities?
- The quality of gravel found in the Heiso/Dithakong area might not be good enough for use in the tar road construction. The area is mostly sand. The community doesn't want a road that will be damaged within no time. If this is true can gravel be obtained from somewhere?

7.2.5Other concerns raised by the aforesaid parties.

- The borrow pit need to be fenced for the safety people and animals.
- There is need to have access control during the operational period of the borrow pit.
- Chemical toilets are to be used to prevent ground and surface water pollution.
- Personnel need to be taught about how to handle potential emergencies including fire, accidental leaks and pollutant spillages.
- Precautions are to be taken to prevent waste and fires spreading in the borrow pit.
- The borrow pit needs to be properly rehabilitated.

7.2.6Confirmation that minutes and records of the consultations are appended.

The minutes of the meeting held with the community and tribal leaders and the agreement to utilise the borrow pits are attached and other consultation documents are shown in Appendix 4.

7.2.7Information regarding objections received.

No objections were received.

7.3 The manner in which the issues raised were addressed.

- The issues were raised at a meeting done with the community and tribal leaders.
- Agreement for utilising the borrow pits were obtained and are with conditions to ensure the issues were covered. This is attached in Appendix 4
- Material testing will be done for the borrow pit gravel prior to use to ensure that it is good for road construction.
- There is money set aside as part of the road project for employment of local labour. This will be handled as appropriate once the main contractor has been appointed.
- The side of the borrow pit will be profiled to a low slope to make them safe for people and animals and will be re-vegetated.
- The borrow pit area will be fenced off prior to use and up to a time when rehabilitation efforts have established sustainable vegetation. There would be adequate access control during the operation of the borrow pit.
- Personnel working on site will be trained.
- Although not everyone will be employed by the contract, the people who are not going to be employed by the contract would benefit by having an improved surfaced road for use at the end of the project.

ENVIRONMENTAL PLAN

8 SECTION 39 (3) (c) of the Act: Environmental awareness plan.

8.1 Employee communication process

(Describe how the applicant intends to inform his or her employees of any environmental risk which may result from their work).

All employees will go through an induction of general environmental issues and given specifics on their jobs. The training will include:

- Making employees aware that everyone has a right to a clean environment and that everyone has a responsibility to protect the environment.
- Explanation of the importance of complying with the EMP specifications.

- Discussion of the potential environmental impacts of operational activities and mitigation measures that must be implemented when carrying out activities.
- The importance of personal performance on dealing with environmental issues and explanations of the management structure of individuals responsible for matters pertaining to the EMP.
- Employees' roles and responsibilities, including emergency preparedness.
- Explanation of the specifics of activities pertaining to their work and the mitigation required. This will include waste management, dust management, artifacts, hazardous materials, fire prevention, importance of good housekeeping, noise management, importance of water conservation and will also emphasize on importance of minimizing vegetation removal
- The training should include showing on the excavations area, areas where vegetation clearance is not to be done, showing the personnel No Go areas, locations for stockpiles and access roads to be used.

Communication can be done either in a written or verbal format but will be in an appropriate format for the receiving audience. Records of all training done are to be kept.

8.2 Description of solutions to risks

(Describe the manner in which the risk must be dealt with in order to avoid pollution or degradation of the environment).

- The applicant will endeavour to improve the competence and skills of personnel. A culture of environmental protection will be promoted.
- Procedures will be put in place to effectively minimise any identified high risk areas in line with the environmental mitigation measures stated in Appendix 2.
- The applicant will proactively control any environmental incidents that may occur.
- The applicant will also continuously improve and promote a code that goes beyond minimal compliance with environmental legislation.

8.3 Environmental awareness training.

(Describe the general environmental awareness training and training on dealing with emergency situations and remediation measures for such emergencies).

- The borrow pit operator shall identify all situations that can lead to emergency situations and provide response strategies. The situations should include fire.
- Contact details of all departments/service providers to be contacted in case of an emergency shall be made available to employees. These include the police, ambulance, local firefighting unit.
- Equipment for dealing with emergencies such as spill kits, firefighting equipment, first aid boxes etc shall be made available.
- People will be trained in the appropriate use of emergency equipment such as fire extinguishers etc.
- All employees will be made aware who the first aiders on site are.
- Drills/ rehearsals should be conducted periodically to ensure that staff prepared to handle emergencies

CAPACITY TO REHABILITATE AND MANAGE IMPACTS

9 SECTION 39 (4) (a) (iii) of the Act: Capacity to rehabilitate and manage negative impacts on the environment.

9.1 The annual amount required to manage and rehabilitate the environment.

(Provide a detailed explanation as to how the amount was derived)

The required amount will be provided as part of the overall budget of the Upgrading of the N14 to Dithakong Road project where the material from the borrow pit will be used.

9.2 Confirmation that the stated amount correctly reflected in the Prospecting Work Programme as required.

No work program has been provided.

UNDERTAKING

10 REGULATION 52 (2) (h): Undertaking to execute the environmental management plan.

Herewith I, the person whose name and identity number is stated below, confirm that I am the person authorised to act as representative of the applicant in terms of the resolution submitted with the application, and confirm that the above report comprises EIA and EMP compiled in accordance with the guideline on the Departments official website and the directive in terms of sections 29 and 39 (5) in that regard, and the applicant undertakes to execute the Environmental management plan as proposed.

Full Names and Surname	Samuel Pauw
Identity Number	660519 5041 082

-END-

APPENDIX 1

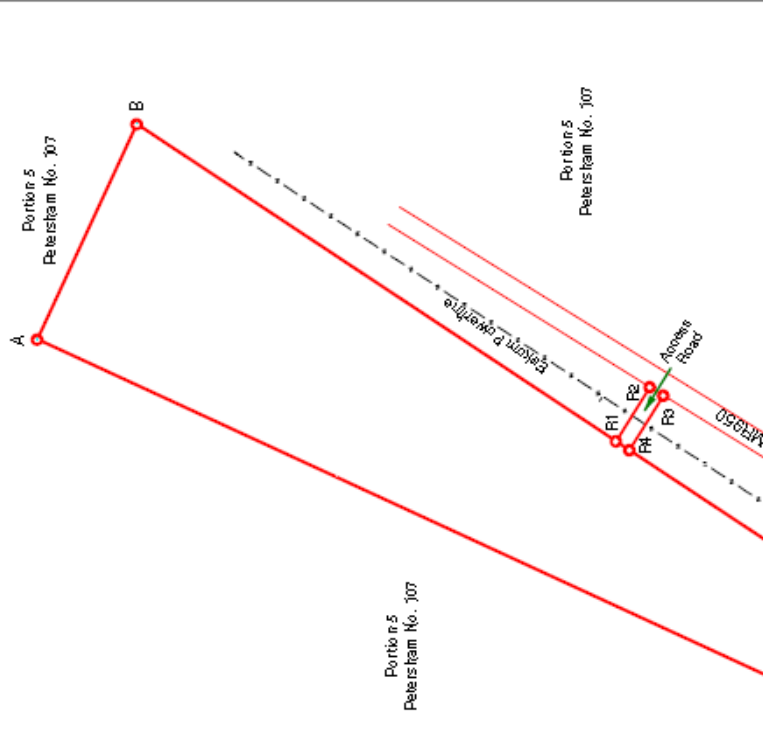
BORROW PIT DIAGRAM

MPT NUMBER :

**BORROW PIT SITE - BP6 MR950
ON PORTION 5 OF PETERSHAM 107**

SCALE 1 : 2500

Scale in Metres



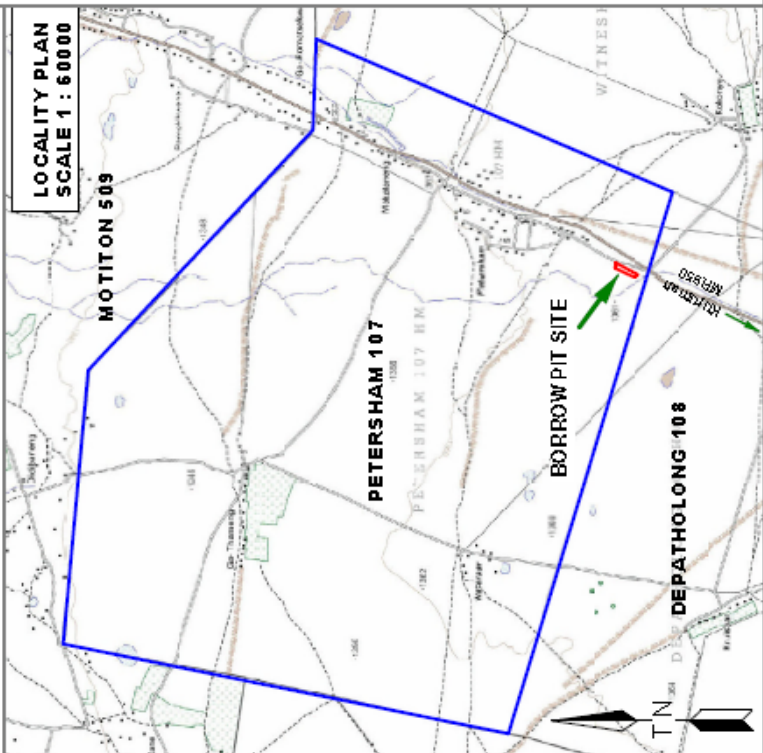
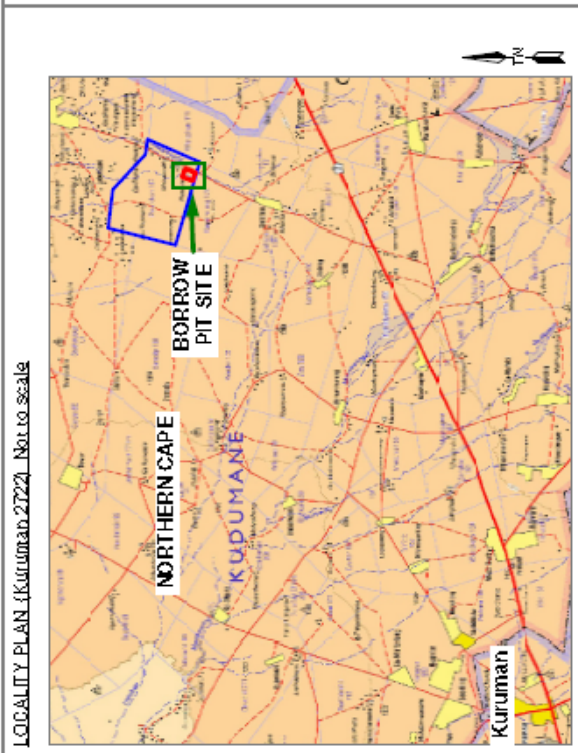
Key

- Cadastral Border
- Area of Interest

NOTE:
Co-ordinates A,B,C,D were obtained by survey

GRIVAINIS & SAALIMAN
Professional Land Surveyors
Topographical & Engineering Surveyors
14 Hall Street
P.O. Box 102
5300 Kimberley
Email: grivainis@telkom.co.za

©Mafed Land Surveying (Pty) Ltd Kuruman 143
Date: February 2014



APPLICANT :
**NORTHERN CAPE DEPARTMENT
OF ROADS AND PUBLIC WORKS**

SKETCH PLAN TO ACCOMPANY AN APPLICATION FOR A MINING PERMIT IN TERMS OF SECTION 27 (2) OF THE MINERAL AND PETROLEUM RESOURCES DEVELOPMENT ACT, 2002 (ACT No. 28 OF 2002) and framed in accordance with Regulation 2(2) of the regulations published under the above Act.

APPLICATION FOR A
MINING PERMIT
THE FIGURE A,B,C,D
REPRESENTS A BORROW PIT (BP6 MR950)
FROM WHICH MATERIAL WILL BE USED
FOR ROAD CONSTRUCTION PURPOSES
IN EXTENT 3.8100 ha

SITUATED ON
A PORTION OF PORTION 5 OF
THE FARM PETERSHAM 107
Administrative District KURUMAN

Province : Northern Cape
SURVEY SYSTEM WGS 84
CO-ORDINATES : WGS 23

Name	Y	X
Borrow Pit Area		
A	-66181.22	3010276.80
B	-66238.86	3010325.53
C	-66033.33	3010710.71
D	-66889.66	3010690.66
Access Road (Area ±256 m²)		
R1	-66130.29	3010664.66
R2	-66167.40	3010681.40
R3	-66153.18	3010583.20
R4	-66125.87	3010571.23

PLAN APPROVED :
REGIONAL MANAGER NORTHERN CAPE

DATE :

NAME OF APPLICANT :
.....
SIGNED DATE

DRAWN BY : L. Grivainis
COMPILED BY : G. B. Saaliman
Registration No : S 0244 Surveyor

SIGNED DATE

APPENDIX 2

TECHNICAL AND MANAGEMENT OPTIONS FOR MITIGATION OF IMPACTS

TECHNICAL AND MANAGEMENT OPTIONS FOR MITIGATION OF IMPACTS

1. INTRODUCTION

These technical and management processes have been developed to enable Northern Cape Department of Roads and Public Works to mitigate negative environmental impacts and to provide a proactive approach to managing identified environmental risk. They provides systematic and explicit mitigation and monitoring measures for the proposed borrow pit so as to ensure that they are implemented during the planning, construction, operational and decommissioning phase of the project. It also mandates the company to internalise the environmental impacts that would otherwise be a social cost.

2. COMPLIANCE WITH LEGISLATION

In addition to the Mineral and Petroleum Resources Development Act, the other relevant legislative provisions of the following should be adhered to are:

- National Environmental Management: Waste Management Act (Act 59 of 2008)
- National Environmental Management: Air Quality Act (Act 39 of 2004)
- National Heritage Resources Act (Act 25 of 1999)
- Hazardous Substances Act (Act 15 of 1973)
- Environment Conservation Act (Act 73 of 1989)
- Occupational Health and Safety Act (Act 85 of 1993)
- National Water Act (Act 36 of 1998).
- Conservation of Agricultural Resources Act (Act 43 of 1983)
- Explosives Act (Act 26 of 1956)
- National Forest Act, (Act 84 of 1998)
- National Veldt and Forest Fire Act (Act 101 of 1998)
- Northern Cape Nature Conservation Act (No. 9 of 2009)

3. PERMITS AND PERMISSIONS

All pertinent permits, approvals and agreements are to be obtained before activities commence on site and the conditions are to be strictly adhered to.

4. GENERAL SITE ESTABLISHMENT

Access at the borrow pit shall be controlled and adequate precautions taken to prevent unauthorised entry to the borrow pit. A fence or other barrier should be erected to restrict access

- The area must be clearly demarcated and fenced along its boundaries.
- Permanent beacons must be firmly erected and maintained in their correct position throughout the life of the operation.
- Resultant operations shall only take place within this demarcated area.
- Borrow pit boundaries shall be signposted and laid out so as to be clearly visible and identifiable.
- Adequate precautions shall be taken to protect persons present at, or in the vicinity of, the borrow pit from risks that may arise from borrow pit operations.

5. MANAGING SOCIAL IMPACT RELATED ISSUES

- Community should be adequately informed in advance of activities being done at the borrow pit that are likely to affect them.
- Labour recruitment should occur in a manner that is objective, transparent, and wherever possible, provide opportunities for people from the local area.
- Priority should be given to the local supplier of goods and services, which meet requirements of project procurement.
- Effective two-way public disclosure and public consultation should be implemented to allay community perceptions. There should be an opportunity provided for the resolution of grievances or complaints received and recorded from individuals in the community.

6. SPECIFIC MITIGATION MEASURES

6.1 MANAGING SOIL IMPACTS

These measures are targeted at managing soil erosion, soil contamination, compaction of soil and removal of topsoil

- The area that is stripped of vegetation should be kept to an absolute minimum
- Contractor shall at all times carefully consider what machinery is appropriate to the task while minimising the extent of environmental damage and unnecessary movements should be prohibited
- The topsoil, including the existing grass cover is to be shallowly ripped (only the depth of the topsoil) before removal. This is to ensure that organic plant material, and the natural seed base is included in the stripping process. The soil is to be stored and the soil stockpiles shall not be higher than 2 m or stored for a period longer than one year. The slopes of soil stockpiles shall not be steeper than 1 vertical to 2.5 horizontal.
- Topsoil shall be stored separately from subsoil and other overburden material.
- No vehicles shall be allowed access onto the stockpiles after they have been placed.
- Stockpiles shall not be allowed to become contaminated with oil, diesel, petrol, garbage or any other material, which may inhibit the later growth of vegetation.
- The contractor shall apply soil conservation measures to the stockpiles to prevent erosion.
- Ensure regular maintenance of equipment to prevent diesel and hydraulic spillages
- Where possible ensure low work surface gradients so that run-off flows at a controlled rate so as to minimize channelling and soil erosion during high rainfall

- At the end of operations, all disturbed areas shall be re-vegetated.

6.2 LOSS OF VEGETATION

- Clearance of vegetation should be restricted to the absolute minimum required to facilitate access and undertake borrow pit activities. Disturbance of topsoil and vegetation rootstock must be minimized as far as possible.
- Efforts should be made to protect large trees on site and these should be removed only when absolutely necessary.
- No protected species must be removed without a permit. A final walkthrough must be done to ensure that the areas where vegetation is to be cleared do not have protected species.
- Any declared weed species identified on site should be cleared.
- Burning of any waste material is not permitted under any circumstances.
- Rehabilitation strategies following operational activities must ensure that appropriate indigenous plant species are used and should be done as per rehabilitation plan

6.3 DUST AND VEHICLE FUMES

- Avoid unnecessary excessive vehicle movement.
- Limit vehicle speeds on unsurfaced roads.
- Rehabilitate disturbed areas with vegetation as soon as operation is completed.
- Maintain equipment and vehicles in good working order to avoid excessive emissions
- Borrow pit working floors should be sprayed with water from time to time to reduce dust emission during operations
- Use rubber curtains/other material to limit dust during screening should be considered.
- Spray roads, material stockpiles and screening areas with water if dust becomes problematic.
- No fires should be allowed on the borrow pit site.

6.4 BLASTING

- All blasting and handling of blasting materials should be done in accordance with the Explosives Act and the Mine Health and Safety Act
- Copies of all required permits/licenses and documents should be kept on site.
- A risk assessment has to be that takes into account the safety of the people, infrastructure and the surrounding environment. A pre and post blasting survey should be done.
- A blasting time schedule shall be distributed to all surrounding villages indicating the time and date for blasting activities. It is recommended that blasting takes place between 1200hrs and 1500hrs.
- At all times blasting shall be carried out that ground vibration, air blast and scatter are kept within such limits as to avoid damage to adjacent structures/machinery etc already placed at the works. Any fly rock should be cleared after blasting.

6.5 WASTE DISPOSAL

- All personnel must be instructed to dispose of waste in a proper manner.
- Suitable receptacles shall be available at all times and conveniently placed for the disposal of waste.
- No waste shall under any circumstance be disposed of in the veldt. No burning of waste is permitted on site and the borrow pit area should be protected from illegal dumping of waste.

- All used oils, grease or hydraulic fluids shall be placed in appropriate impervious containers and these receptacles will be removed from the site on a regular basis for disposal at a registered or licensed disposal facility or sent for recycling/reuse with a registered facility.
- Spills should be cleaned up immediately by removing the spillage together with the polluted soil and by disposing of them at a recognised facility. In areas where the spills are some, an absorbent agent can be used and the area treated
- Contaminated materials and residues from machinery maintenance and other sources contaminated with hazardous waste should be stored in proper containers that avoid seepage to ground.
- The reduce, reuse, recycle waste management philosophy will be used where possible.
- Only authorized registered waste disposal contractors should be hired for collection of waste for all waste streams

6.6 SOCIAL IMPACTS

- Effective two-way public disclosure and public consultation should be implemented to allay community perceptions. There should be an opportunity provided for the resolution of grievances or complaints received and recorded from individuals in the community.
- Community should be adequately informed of activities being done at the borrow pit that are likely to affect them.
- Labour recruitment should occur in a manner that is objective, transparent, and wherever possible, provide opportunities for people from the local area.
- The activities of contractors, consultants, and company employees should be routinely reviewed to ensure good community relations are being maintained. The project proponent should use its influence as employer to encourage responsible behaviour among employees.

6.7 STABILITY OF EXCAVATIONS

- Excavations shall take place only within the approved demarcated borrow pit area and appropriate barriers should be put as necessary.
- The borrow pit operator shall ensure that a place of work, whether temporary or permanent in or near the excavation has a structure and solidity appropriate to its use is operated, supervised and maintained, so as to withstand the environmental forces anticipated and be safe.
- The borrow pit operator shall ensure that material is not placed, stacked or used at the borrow pit near the edge of any excavation, where it is likely to endanger people at work and equipment or where it is likely to cause collapse of the side of the excavation.
- Excavations should be routinely inspected. If cracks occur in any structure they need to be investigated to ascertain if there is a risk to safety
- Overburden rocks and coarse material shall be placed concurrently in the excavations or stored adjacent to the excavation, if practicable, to be used as backfill material once the mineral or gravel has been excavated.
- An appropriate drainage provisions must be constructed as necessary to accommodate the surface water movement. If the water table is reached during excavations appropriate pumping facilities should be provided.
- Excavated areas should be kept in a safe and stable manner. No unstable block should be present.

Reshaping of the borrow pit may need to be done to ensure that this objective is reached. The profiling should be done to match the surrounding landscape

- Although the terrain of the borrow area makes it difficult to make it free draining on completion, all efforts should be put in place and appropriate channels constructed to improve the free drainage capabilities of the finished borrow pit.
- Top soil should be put back on the surfaces and the areas revegetated.

6.8 VISUAL IMPACTS

- The excavated area must serve as a final depositing area for the placement of overburden. Rocks and coarse material removed from the excavation must be dumped into the excavation.
- Once excavation parts that can be filled have been refilled with overburden, rocks and coarse natural materials, the borrow pit shall be profiled with acceptable contours and erosion control measures, the topsoil previously stored shall be returned to its original depth over the area. The profiling shall be done to match the surrounding landscape as far as is reasonable possible.
- The area shall be fertilised if necessary to allow vegetation to establish rapidly. The site shall be seeded with a local or adapted indigenous seed mix in order to propagate the locally or regionally occurring flora.
- If a reasonable assessment indicates that the re-establishment of vegetation is unacceptably slow, there may be need for the soil to be analysed and any deleterious effects on the soil arising from the borrow pit, be corrected and the area be seeded with a vegetation seed mix to his or her specification.

6.9 EQUIPMENT USED ON SITE

- Only well-maintained vehicles and equipment should be operated onsite and all machinery should be serviced regularly during the borrow pit operation.
- The maintenance of vehicles and some equipment used for any purpose during the borrow pit operation will take place only in the maintenance workshops which are not located on the borrow pit. No vehicle may be extensively repaired in any place other than in the maintenance yard
- A maintenance schedule should be prepared in order to ensure that equipment is in its best form so as to no cause unnecessary pollution such as noise, emissions and makes effective use of energy.
- Equipment used in the borrow pit process must be adequately maintained so that during operations it does not spill oil, diesel, fuel, or hydraulic fluid.
- Machinery or equipment used on the borrow pit area must not constitute a pollution hazard. No equipment leaking oil should be used. Drip tray should be used to prevent pollution

6.10 NOISE

- Construction activities required outside normal working hours must be approved by the Project Manager, and where necessary, advance warning provided to adjacent residents.
- Noise levels exceeding 85dB shall only be permitted where approved and with appropriate advanced warning to adjacent residents (minimum of 2 days) being provided.
- Noise that could cause a major disturbance should only be carried out during daylight hours and with advance warning provided as above.
- Adequate ear protection should be provided to employees in noisy areas
- No amplified music shall be allowed at the site.

- Construction vehicles and plant to be in good working order.

APPENDIX 3

REHABILITATION PLAN

BORROW PIT REHABILITATION AND CLOSURE

1.0 INTRODUCTION

The key aims of the rehabilitation are to eliminate unacceptable risks by establishing a safe, stable and non polluting post-mining land surface which supports vegetation growth and the vegetation growth should be sustainable over the long term. It is also targeted at minimising the downstream impacts on the ecosystem due to the interruption of drainage system.

The borrow pit operator must perform progressive rehabilitation as material extraction is done. Progressive rehabilitation means rehabilitation done sequentially within a reasonable time after extraction of borrow pit resources is complete. As one area of their pit or borrow pit is being extracted, rehabilitation must be completed in the areas where the borrow pit reserves have been stopped or exhausted. Progressive rehabilitation is beneficial in many ways as it reduces the open areas within a borrow pit, reduces soil erosion potential and reduces double-handling of soil / waste materials.

The final rehabilitation takes into account that the borrow pit is located in a semi arid region. The environment affected by the operations shall be rehabilitated, as far as is practicable, to its natural state or to a predetermined and agreed to standard or land use which conforms with the concept of sustainable development. The affected environment shall be maintained in a stable condition that will not be detrimental to the safety and health of humans and animals and that will not pollute the environment or lead to the degradation thereof. The rehabilitation activities shall require the re-planting of vegetation in some areas cleared for the borrow pit activities. This will promote soil stability, improve the visual environment and provide faunal habitat into the after closure phase of the borrow pit.

2.0 REHABILITATION OF ACCESS ROADS

- Whenever borrow pit is suspended, cancelled or abandoned any access road or portions thereof, constructed by the holder and which will no longer be required by the landowner/tenant, shall be removed and/or rehabilitated to the satisfaction of the owner.
- Any gate or fence erected by the borrow pit operator which is not required by the landowner/tenant, shall be removed and the situation restored to the pre-borrow pit situation.
- Roads shall be ripped or ploughed, and if necessary, appropriately fertilised (based on a soil analysis) to ensure the regrowth of vegetation. Imported road construction materials which may hamper regrowth of vegetation must be removed and disposed of in an approved manner prior to rehabilitation.
- If a reasonable assessment indicates that the re-establishment of vegetation is unacceptably slow, the soil be analysed and any deleterious effects on the soil arising from the borrow pit,

be corrected and the area be seeded with a seed mix which is in similar with the vegetation of the area.

3.0 OFFICES, STORAGES AREA AND PLANT STRUCTURES

- On completion of operations, all buildings, structures or objects on the camp/office site shall be demolished and removed.
- Where office/camp sites have been rendered devoid of vegetation/grass or where soils have been compacted owing to traffic, the surface shall be scarified or ripped.
- Areas containing French drains shall be compacted and covered with a final layer of topsoil to a height of 10cm above the surrounding ground surface.
- On completion of borrow pit operations, the above areas shall be cleared of any contaminated soil, which must be dumped as per the waste management plan
- All infrastructure, equipment, plant, temporary housing and other items used during the borrow pit period will be removed from the site
- Waste material of any description, including receptacles, scrap, rubble and tyres, will be removed entirely from the borrow pit area and disposed of at a registered waste disposal facility. It will not be permitted to be buried or burned on the site
- Photographs of the camp and office sites, before and during the borrow pit and after rehabilitation, shall be taken at selected fixed points and kept on record.
- The surface shall then be ripped or ploughed and the topsoil previously stored shall be spread evenly to its original depth over the whole area. The area shall then be fertilised if necessary (based on a soil analysis).
- The site shall be seeded with a vegetation seed mix adapted to reflect the local indigenous flora.
- If a reasonable assessment indicates that the re-establishment of vegetation is unacceptably slow, the might be need that the soil be analysed and any deleterious effects on the soil arising from the borrow pit operation be corrected and the area be seeded with a suitable seed mix.

4.0 REHABILITATION OF EXCAVATION AREAS

- Excavated areas should be kept in a safe and stable manner. No unstable block should be present. Reshaping of the borrow pit may need to be done to ensure that this objective is reached
- Preventative measures may be necessary during closure to construct adequate drainage structures including ditches and other structures to facilitate the movement of surface water and prevent avoidable damming. An assessment will need to be done when mining has ceased to determine if there is need for such measures. The objective of these measures is to avoid water build-up that affects the physical stability of the slopes and also interferes with the drainage of the whole area.

- The excavated area must serve as a final depositing area for the placement of overburden and gangue during processing.
 - Rocks and coarse material removed from the excavation must be dumped into the excavation simultaneously with waste, as described in previous paragraph. Waste will not be permitted to be deposited in the excavations.
 - Once excavation parts that can be filled have been refilled with overburden, rocks and coarse natural materials and profiled with acceptable contours and erosion control measures, the topsoil previously stored shall be returned to its original depth over the area.
 - The area shall be fertilised if necessary to allow vegetation to establish rapidly. The site shall be seeded with a local or adapted indigenous seed mix in order to propagate the locally or regionally occurring flora.
 - If a reasonable assessment indicates that the re-establishment of vegetation is unacceptably slow, there may be need for the soil to be analysed and any deleterious effects on the soil arising from the borrow pit, be corrected and the area be seeded with a suitable vegetation seed mix.
-

APPENDIX 4

CONSULTATION DOCUMENTS

KENNISGEWINGS

KENNISGEWING: In die boedel van Wyle Van Niekerk Kotze (Identiteitsnommer 290814 5017 06 5) van Eureka Woonstel No 60, Pioniersingel, Upington, 8801 wie oorlede is op 18 September 2012. (Boedelnommer 3132/2012). Kennis geskied hiermee dat die Eerste en Finale Likwidasië- en Distribusierekening in bogenoemde boedel ter insae lê by die kantore van die Meester van die Hooggeregshof te Kimberley en by die Landdroskanteoor te Upington vir 'n tydperk van 21 dae vanaf 31 Januarie 2014. Du Toit Van Den Heever, Agente vir die Eksekuteurs Testamentêr, Posbus 204, Upington, 8800

Upington vir 'n tydperk van 21 dae vanaf 31 Januarie 2014. Du Toit Van Den Heever, Agente vir die Eksekuteurs Testamentêr, Posbus 204, Upington, 8800

----- K5/31/01
KENNISGEWING: Boedel Wyle Isabella Maria Visser Id 240911 0029 080, wat woonagtig was op Perseel 614, Augrabies, Meestersverwysing 4160/2011; Kimberley, oorlede 06/09/2011; Eerste en Finale Likwidasië en Distribusierekening wat ter insae lê by die Landdroskanteoor te Kakamas vir 21 dae. Eksekuteur PSG Konsult Trust (Edms) Bpk - Augrabies, Posbus 282, Augrabies, Telefoonnommer 054 431 0076, e-pos info.Augrabies@psg.co.za

----- K6/31/01
KENNISGEWING: Boedel Wyle Petronella Susanna Wiese ID 260607 0022 084, wat woonagtig was op Aranos, Namibië, Meestersverwysing 866/2013, Kimberley, oorlede 01/12/2012; Eerste en Finale Likwidasië en Distribusierekening wat ter insae lê by die Landdroskanteoor te Kakamas vir 21 dae. Eksekuteur PSG Konsult Trust (Edms) Bpk - Augrabies, Posbus 282, Augrabies, Telefoonnommer 054 431 0076, e-pos info.Augrabies.psg.co.za

ENVIRONMENTAL IMPACT ASSESSMENT NOTIFICATION

Notice is hereby given in terms of the Mineral and Petroleum Resources Development Act (Act 28 of 2002) of the intent to mine gravel for road construction activities.

APPLICANT : Northern Cape Department of Roads and Public Works

LOCATION: Borrow pits located on the following farms in the Joe Morolong Municipality area, Northern Cape Province.
 - Farm Rugby No. 43
 - Farm Holmy No. 49
 - Farm Foster No. 75
 - Farm Petersham No. 107
 - Farm Depatholung No. 108
 - Farm Heiso No. 114
 - Farm Motlon No. 509

CONSULTANT: TERRA WORKS
 P O BOX 28242
 DANHOFF 9310
 TEL: 051 412 6350
 FAX: 051 412 6351
 Email: sp@terraworks.co.za

NOTICE DATE: 29 January 2014

In order to ensure that you are identified as an interested and/or affected party, please submit your name, contact information and interest in the matter to the consultant given by 28 February 2014.

PROVINCE OF THE NORTHERN CAPE
 PROVINCIAL GAZETTE
 EXTRAORDINARY, 26 MARCH 2010

FORM 2

NOTICE OF INTENTION TO APPLY IN TERMS OF SECTION 20 OF THE ACT FOR THE ACT FOR A LICENCE

[Reg.4(1)]

Notice is hereby given that it is the intention to lodge the abovementioned application, particulars of which appear hereunder, with the Northern Cape Liquor Board Municipality

//Khara Hais Municipality
 Full name, street and postal address of applicant
Dunde Chen, PO Box 2708, Upington, 8801

Kind of licence applied for
Grocer Wine
 Kind of liquor to be sold
Wine only

Name under which business is to be conducted and full address of premises
Dunde Chen, Site 2260, Shop No 3, 11 Lutz Street, Upington, 8801

Extra items to be sold [section 4(5)(a) and (b)]

ENVIRONMENTAL IMPACT ASSESSMENT PROCESS Notice 2014/03

Notice is given that a Scoping report is being undertaken in terms of the National Environmental Management Act (NEMA), 1998 (Act 107 of 1998) Environmental Impact Assessment Regulations as amended 2010 and the Government Notice R. 543 – R.546 of 2 August, of the intent to carry out the following activity:

Proposed Activity: Proposed town extension at Paballelo, UPINGTON
Location: Erf 5530 (portion of erf 1), erf 5645 (portion of erf 1) and portion of erf 1
Name of proponent: //Khara Hais Municipality

In terms of the National Environmental Management Act (NEMA), 1998 (Act 107 of 1998) Environmental Impact Assessment Regulations as amended 2010 and the Government Notice R. 543 – R.546 of 2 August 2010:

GN. 544
Activity 56
 Phased activities for all activities listed in this schedule, which commenced on or after the effective date of this schedule, where anyone phase of the activity may be below a threshold but where a combination of the phases, including expansions or extensions, will exceed a specified threshold:- 2, 11 (i)-(vii), 16(i)-(iv), 17, 19, 20, 22(i) & 22(iii), 25, 26, 27(iii)&(iv), 28, 39, 45(i)-(iv)&(vii)-(xv), 50, 51, 53 en 54

GN. 545
Activity 15
 Physical alteration of undeveloped, vacant or derelict land for residential, retail, commercial, recreational, industrial or institutional use where the total area to be transformed is 20 ha or more.

In respect of the above, an application form, Scoping Report and an Environmental Impact Report which will be compiled and submitted to the Department of Environment and Nature Conservation, in order to take a decision in this regard.

Name of contact for further information:
 MEG Omgewingsimpakstudies
 Private Bag X5879 Postnet Suite 63
 UPINGTON, 8800
 Tel: 054 – 491 3144 Fax: 0865419562
 E-mail: megeldenhuys@vodamail.co.za

Date of advertisement: 31 January 2014

In order to ensure that you are identified as an interested and/or affected party please submit your name, contact information, comments and interest in the matter to the contact person as given above within 30 days of publication of this advertisement.

ENVIRONMENTAL IMPACT ASSESSMENT PROCESS Notice 2014/01

Notice is given that a Scoping report is being undertaken in terms of the National Environmental Management Act (NEMA), 1998 (Act 107 of 1998) Environmental Impact Assessment Regulations as amended 2010 and the Government Notice R. 543 – R.546 of 2 August, of the intent to carry out the following activity:

Proposed Activity: Proposed town extension at Dakota Road, UPINGTON
Location: Portion of erf 7207, erf 1 and erf 20973 (original erf 1859)
Name of proponent: //Khara Hais Municipality

In terms of the National Environmental Management Act (NEMA), 1998 (Act 107 of 1998) Environmental Impact Assessment Regulations as amended 2010 and the Government Notice R. 543 – R.546 of 2 August 2010:

GN. 544
Activity 56
 Phased activities for all activities listed in this schedule, which

OMGEWINGSIMPAKSTUDIE KENNISGEWING 2014/03

Kennis geskied hiermee dat 'n aansoek om Omgewingsbepaling (Scoping/EIA) onderneem word in terme van die Nasionale Omgewingsbestuurs Wet (NEMA) (Wet 107 van 1998) en Omgewingsimpakstudie Regulasies soos aangepas in 2010 en die Staatskennisgewing R.543 – R.546 van 2 Augustus 2010 van die volgende aktiwiteit:

Voorgestelde aktiwiteite: Voorgestelde dorpsuitbreiding by Paballelo, UPINGTON
Ligging: Erf 5530 (gedeelte van erf 1) erf 5645 (gedeelte van erf 1) en gedeelte van erf 1
Aansoeker: //Khara Hais Munisipaliteit

In terme van die Nasionale Omgewingsbestuurs Wet (NEMA) (Wet 107 van 1998) Omgewingsimpakstudie Regulasies soos aangepas in 2010 en die Staatskennisgewing R.543 – R.546 van 2 Augustus 2010:

GN. 544
Aktiwiteit 56
 Gefaseerde aktiwiteite vir al die aktiwiteite in hierdie skedule vermeld, wat begin op of na die effektiewe datum van hierdie skedule, waar enige fase van die aktiwiteit laer mag wees as die drempel, maar waar 'n kombinasie van die fases, met inbegrip van uitbreidings of verlengings, sal meer wees as die bepaaldedrempel; uitgesluit die volgende aktiwiteite soos gelys in hierdie skedule; 2, 11 (i)-(vii), 16(i)-(iv), 17, 19, 20, 22(i) & 22(iii), 25, 26, 27(iii)&(iv), 28, 39, 45(i)-(iv)&(vii)-(xv), 50, 51, 53 en 54

GN. 545
Aktiwiteit 15
 Fisiese verandering van onontwikkelde, vakante of verlate grond vir die doel van residensiële, besigheid, kommersiële, rekreasie, industriële of institutionele gebruik waar die totale area wat verander sal word 20 hektar of meer sal wees;

Met betrekking tot bogenoemde sal die aansoekvorm, 'n Omgewingsbepalingsverslag en 'n Omgewingsinvloedbepalingsverslag aan die Departement van Omgewing en Natuurbewaring voorgelê word vir besluitneming.

Kontak persoon vir verdere inligting:
 MEG Omgewingsimpakstudies
 Privaatsak X 5879, Postnet Suite 63
 UPINGTON, 8800
 Tel: 054 – 491 3144 Faks: 0865419562
 E-pos: megeldenhuys@vodamail.co.za

Datum van advertensie: 31 Januarie 2014
 Ten einde te verseker dat u geïdentifiseer word as 'n belanghebbende party, moet u asseblief u naam, kontak inligting, kommentaar en belang by die aangeleentheid aan die kontakpersoon, soos verstrekk, binne 30 dae na publikasie, stuur.

OMGEWINGSIMPAKSTUDIE KENNISGEWING 2014/01

Kennis geskied hiermee dat 'n aansoek om Omgewingsbepaling (Scoping/EIA) onderneem word in terme van die Nasionale Omgewingsbestuurs Wet (NEMA) (Wet 107 van 1998) en Omgewingsimpakstudie Regulasies soos aangepas in 2010 en die Staatskennisgewing R.543 – R.546 van 2 Augustus 2010 van die volgende aktiwiteit:

Voorgestelde aktiwiteite: Voorgestelde dorpsuitbreiding by Dakolaweg, UPINGTON
Ligging: Gedeelte van erf 7207, erf 1 en erf 20973 (oorspronklik erf 1859)
Aansoeker: //Khara Hais Munisipaliteit

In terme van die Nasionale Omgewingsbestuurs Wet (NEMA) (Wet 107 van 1998) Omgewingsimpakstudie Regulasies soos aangepas in 2010 en die Staatskennisgewing R.543 – R.546 van 2 Augustus 2010:

GN. 544
Aktiwiteit 56
 Gefaseerde aktiwiteite vir al die aktiwiteite in hierdie skedule vermeld, wat begin op of na die effektiewe datum van hierdie skedule, waar

MUNISIPALITEIT KAI IGARIB KENNISGEWING NR 03/2014

DORPAAANLEGGSKEMA: VOORGESTELDE ONDERVERDELING VAN PERSEEL 2374, ('N GEDEELTE VAN PERSEEL 1782), KAKAMAS SUID NEDERSETTING, KENHARDT RD, KAI IGARIB MUNISIPALITEIT, NOORD-KAAP PROVINISIE

Kennis geskied hiermee dat die Munisipaliteit Kai IGarib van voorneme is om die volgende aksies met onroerende eiendomme binne Kai IGarib Munisipale Regsgebied ingevolge die bepalinge van die Noord-Kaapse Wet op Ontwikkeling en Beplanning, 1998 (Wet 7 van 1998) te oorweeg.

1. Perseel 2374, ('n Gedeelte van Perseel 1782), Kakamas Suid Nedersetting, Kenhardt RD, Kai IGarib Munisipaliteit.

Voorgestelde onderverdeling

- 1.1 Beskrywing van Eiendom : Perseel 2374, ('n Gedeelte van Perseel 1782), Kakamas Suid Nedersetting Kenhardt RD, Kai IGarib Munisipaliteit.
- 1.2 Ligging : Die aansoekgebied is ongeveer 3.5km suid-oes van Kakamas geleë, op die hoek van die R359 (na Keimoes) en die Kakamas-Kenhardt grondpad.
- 1.3 Oppervlakte : 10,0001ha
- 1.4 Aansoeker : Macroplan (Len J Fourie)

KAI IGARIB MUNICIPALITY NOTICE NO.03/2014

TOWN PLANNING SCHEME: PROPOSED SUBDIVISION OF PLOT 2374, (A PORTION OF PLOT 1782, KAKAMAS SOUTH SETTLEMENT), KENHARDT RD, KAI IGARIB MUNICIPALITY, NORTHERN CAPE PROVINCE

Notice is given in terms of the provisions of the Northern Cape Planning and Development, (Act 7 of 1998) and the applicable Scheme Regulations for Kai IGarib Municipality, that it is the intention of the Council to consider the under mentioned actions on immovable property.

1. Plot 2374 (A Portion of Plot 1782), Kakamas South Settlement, Kenhardt RD, Kai IGarib Municipality

Proposed subdivision

- 1.1 Description of Property : Plot 2374, (A Portion of Plot 1782, Kakamas South Settlement), Kenhardt RD, Kai IGarib Municipality.
- 1.2 Site : The application area is located approximately 3.5km south-east of Kakamas, on the corner of the R359 to Keimoes and the Kakamas-Kenhardt road
- 1.3 Area : 10,0001ha

ENVIRONMENTAL IMPACT ASSESSMENT NOTIFICATION

Notice is hereby given in terms of the Mineral and Petroleum Resources Development Act (Act 28 of 2002) of the intent to mine gravel for road construction activities.

APPLICANT : Northern Cape Department of Roads and Public Works

LOCATION: Borrow pits located on the following farms in the Joe Morolong Municipality area, Northern Cape Province.

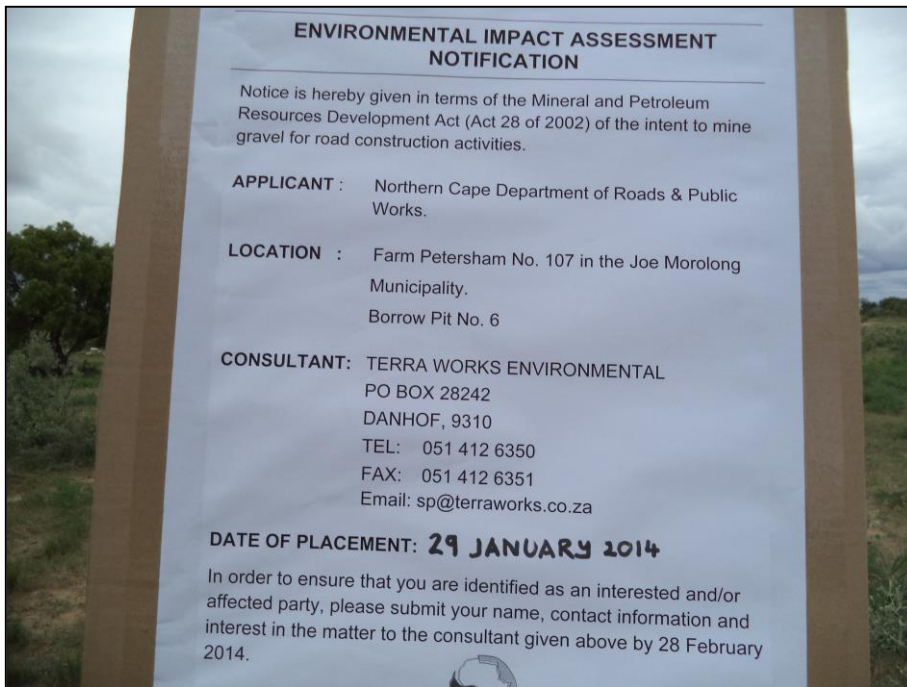
- Farm Rugby No. 43
- Farm Holmby No. 49
- Farm Foster No. 75
- Farm Petersham No. 107
- Farm Depatholong No. 108
- Farm Heiso No. 114
- Farm Motiton No. 509

CONSULTANT: TERRA WORKS
P O BOX 28242
DANHOF, 9310
TEL: 051 412 6350
FAX: 051 412 6351
Email: sp@terraworks.co.za

NOTICE DATE: 29 January 2014

In order to ensure that you are identified as an interested and/or affected party, please submit your name, contact information and interest in the matter to the consultant given by 28 February 2014.

APPENDIX 4.2: SITE NOTICES PLACED



APPENDIX 4.3: AGREEMENT WITH TRIBAL LEADERS

AGREEMENT PERTAINING TO THE USE OF THE BORROW PIT

Date: 3/12/2013

Mr/Ms: B.D. Phetlha
Postal Address: P/Box 130
Motibistad
Kuruman
84-74
Telephone no. 052 773 099
Cell. No. 082 731 9908
e-mail: phetlha@yodoo.com

AGREEMENT PERTAINING TO THE USE OF THE BORROW PIT (QUARRY)

ON THE FARM BP 546 on Petersham No. 107 (5/107)
IN THE DISTRICT OF John Tsolo Gaetsewe

1. I Kgosi B.D. Phetlha
the traditional leader of the property

hereby certify that I agree that the borrow pit/s (quarry/s) on the property (see attached map) can be used for the excavation of road building material subject to the following conditions:

- 1.1 The borrow pit (quarry) and access road (if applicable) will be satisfactorily rehabilitated in terms of the Environmental Management Plan.
- 1.2 All activities shall be kept within the designated borrow pit (quarry) area.
- 1.3 Chemical toilets shall be provided to prevent pollution of the environment, including ground and surface water.
- 1.4 The borrow pit area and haul road shall be fenced off and gates provided in order to ensure the safety of the borrow pit and to ensure that no livestock enter the borrow pit.
- 1.5 Adequate access control will be exercised during the period of excavation of road building material.
- 1.6 All site personnel shall be taught regarding the requirements for dealing with potential emergencies, including fires, accidental leaks and spillage of pollutants.


- 1.7 All precautions shall be taken to prevent any waste/fires from spreading on or from the site.
- 1.8 The material obtained from the borrow pit (quarry) will only be used for the rehabilitation and/or construction of provincial roads.
- 1.9 A copy of the Environmental Management Plan compiled by an Environmental Managing Consultant regarding the management, operation and rehabilitation of the borrow pit will be made available to me.
- 1.10 I also request that the following conditions be addressed:

See attached minutes

Signed on 03-12-2013 2013 at Canden Village

Yours faithful


 TRADITIONAL LEADER

WITNESSES: (1) 

Date: 03-12-2013

(2) 

APPENDIX 4.4 : MINUTES OF MEETING WITH TRADITIONAL LEADERS

THE UPGRADE OF ROADS MR950 & MR947: JTG TRUST ROAD PROJECT STAKEHOLDER CONSULTATION MEETING MINUTES FOR ROAD MR950 (N14 TO DITHAKONG)

MEETINIG VENUE:

Ba-Bothithong tribal office

MEETING DATE:

20 November 2013 @ 10am

ATTENDANCE:

See attached attendance register

CHAIRMAN

Ward Councilor O.S. Moagi

OPENING AND WELCOME:

Kgosi Motshwarakgole opened the meeting and Welcomed all present.

ITEMS	Discussions	
Opening remarks.	Chairman opened the meeting. Kgosi welcomed all present and allowed all to introduce themselves	Kgosi
Purpose of the meeting	The purpose of the meeting was explained as: To obtain permission from the Traditional Leader of Ba-Bothithong for the use of the identified areas as borrow pits. To begin working relations between the traditional council and other relevant Road Construction project stakeholders for the smooth running of the project	Thandu
Short progress report	The meeting attendees were given a brief relevant status report of the project.	CF
Discussions	Concern: The quality of gravel found in the Heyso/Dithakong area might not be good enough for use in the tar road construction. The area is mostly sand. The community doesn't want a road that will be damaged within no time. If this is true can gravel be obtained from somewhere? Which gravel will be used mostly? Is it Dithakong / Heyso gravel? Response: When the agreement for use is signed by the Chief, samples of the identified borrow pits soil will be sent to the lab to be tested. Lab test will then determine if the soil is good/bad for road construction use, if soil needs to be mixed or need to mine somewhere else. If it is found not fit then it will not be used or if possible will be mixed with gravel from other areas. Use of any of the current identified borrow pits will depend on the lab-test results. Only the ones approved by the lab will be used.	TC member
	Concern: Current boreholes, some are from the previous government and some others are from the department of Agriculture. The project managers are requested to check the	

	<p>possible use of these. What is going to happen to the Boreholes after use, by the contractor?</p> <p>Response: Project managers are currently busy investigating all current boreholes and possible boreholes. When this process is complete a permission to use these, will be required from the traditional leadership and necessary applications with the relevant department will be done. Focus will be on new boreholes or those that are not fit for human consumption as the volumes of water needed is too high and its not to the project managers wish to leave the used boreholes dry. These should still be used by the community years after the project is completed. After road construction, the borehole and the relevant machinery will be left for use by the community. The chief or a person appointed will have to sign for these and take charge of them.</p>	
	<p>Concern: Where does the 30km of this road start?</p> <p>Response: It starts at N14 junction</p>	
	<p>Concern: The villages have animals, children, etc. what safety measures have been put in place for during construction. The community requests speed calming mechanisms like speed humps especially around the clinic area and traffic control tools to avoid over speeding and minimize road accidents.</p> <p>Response: Fencing will be redone. The department of Agriculture has been approached to assist. The community will be approached to help identify areas for speed calming mechanism and bus stops for inclusion in the road plan.</p>	
	<p>Concern: Subcontracting possibilities for emerging contractors and people with licenses to mine, electricians, etc.</p> <p>Response: Contacts of the appointed contractor, once appointed will be made available to the community. Who and how to subcontract remains the contractor's prerogative / decision. The contractor will be required to use atleast 25% of locals in the construct process</p>	

BA BOTHITHONG T/C

P/BAG X 111

MOTHIBISTAD

8474

REF: L16/1/1/1/6

ENQ: SECRETARY

CONT: 073 379 0282 / 076 4832 772

BA BOTHITHONG TRIBAL OFFICE: REGISTER FOR VISITORS

DATE	NAME & SURNAME	COMPANY NAME	CONT: NO	REASON FOR VISITING	TIME IN	TIME OUT	SIGNATURE
20/11/13	O.S. MOAGI	Joe Morolong	0764118780	Meeting			<i>[Signature]</i>
20/11/13	A.P. Pitso	T. Council	0763578768	Meeting			<i>[Signature]</i>
20/11/13	T.M. MOTHIBISTAD	MESHACK'S BUILDING CONSTRUCTION	0764889666	MEETING FOR THE ROAD			<i>[Signature]</i>
20.11.2013	T.P. Tshipiso	PR. CH. J.M. L.M	0764119172	Project hand over			<i>[Signature]</i>
20/11/2013	O.S. Etebe	BA-Bothithong T/C	0763708200	Project hand over			<i>[Signature]</i>
20/11/2013	M.S. Molele	T/C Council	0769988544	Meeting			<i>[Signature]</i>
20/11/2013	L. T. Kaitsho	T/C Council	0767956875	Project hand over			<i>[Signature]</i>
20/11/2013	B. Sechiso	WARD COMMITTEE	0793581666	meeting			<i>[Signature]</i>
20/11/2013	M. BRANDJANG	TR. BRK SEC	0733790282	MEETING FORUM			<i>[Signature]</i>

Upgrading of MR947 and MR950 Roads

EIA PUBLIC PARTICIPATION

SUMMARY OF PROCEEDINGS OF STAKEHOLDERS FORUM

GAMOGEREMANE STAKEHOLDERS FORUM

DATE: 12 June 2013

VENUE: Community Centre

PRESENT: See Attendance Register Attached

PROCEEDINGS:

1. The discussion forum started with song and a prayer. Introductions were then made of the representatives from the Department of Roads, MVD Kalahari, the road committee and Terra works. Members of the Tribal Council who were present were also introduced.
2. The Department of Roads representative presented the background information document done by MVD Kalahari detailing key aspects of the road construction project and the need for the roads.
3. A Terra Works Environmental Consultant then explained the purpose of the stakeholders consultation forum, key aspects of the EIA process, why stakeholder input was important and explained that the issues that were to be addressed by the environmental impact assessment included both the road construction activities and mining of borrow pits to obtain road building material. The participants were provided with a document summarising the EIA process.
4. After the explanation by Terra Works people who were present were then asked if they had any issues, comments or concerns regarding the project. The summary of issues raised and responses given are summarised in the table below.



ISSUES RAISED AT THE GAMOJEREMANE FORUM



No.	Question/Comment/Issue Raised	Response Given At Forum	Required Further Action
1	Where will the borrow pits for use by the project located?	From MVD Engineer: Material investigations for the borrow pits is still taking place. The project will try to use existing borrow pits as far as reasonably possible but this will only be clear after the material investigation has been completed. Permission will be sought to make use of the borrow pits.	Area for borrow pits to be identified and the Tribal Authorities informed and permission sought as early as possible.
2	If one Tribal authority refuses to grant the project permission to use borrow pits in their area would this stop the project, as the road spans through areas under different Tribal authorities?	From MVD Engineer: The project would not necessarily stop but it would make it more expensive as road aggregate would have to be obtained from other sources and transported to the site through long distances.	Permission for use of borrow pits is to be sought early so that contingency plans can be put in place for areas where access and borrow pit usage rights have been denied.
3	The community has had problems with contractors who have previously left the borrow pits un-rehabilitated with steep slopes that cause injury to animals. The community would like assurance that this kind of behaviour will not be repeated.	From Terra Works Rep: The contractor will be monitored during the mining period to ensure that he is complying with approved plans and in addition, an application will be made to the Department of Mineral Resources (DMR) for closure of the borrow pit, a process which requires visits by the representatives of the DMR to check	Environmental Management Plans for all borrow pits will need to be approved by the Department of Mineral Resources. Close monitoring and audits by a third party will be required during the mining period.



No.	Question/Comment/Issue Raised	Response Given At Forum	Required Further Action
		that the borrow pit had been left in a safe manner and has been properly rehabilitated.	Rehabilitation of the borrow pits to be done at termination of mining.
4	The community would like fences on both sides of the road for the protection of animals and general safety.	The request was noted by the engineer and a request would be made for inclusion of the fencing in the design of the road.	Engineer is to discuss the issue fencing with the steering committee and have that included in the design specification for the road.
5	The community would like speed humps and pedestrian crossing at the school area and at the clinic as there are a lot of pedestrians who cross the road these areas.	From MVD Engineer: Safety aspects are part of the things planned for the road. The Engineer noted the request and would have it included as part of the design specifications of the road.	Speed humps and pedestrian crossing are to be included in the design of the road.
6	The community would like a durable road that does not start failing early as they have seen in some of the roads that have been built nearby.	From MVD Engineer: The Department of Road have specified that a level three road will be built. It will not be like N14 Road but will be strong. Quality control would be key during construction to ensure that the road is built according to specifications.	Extra effort on supervision of the contractors is to be put in place to ensure that the road is build according to the set design specifications without any compromised.
7	Previous contractors have promised things for the community which they have not delivered as promised and left the some of the areas in a deplorable state	From Dept of Roads Rep. Contractors will be monitored throughout their construction period and every effort will be made to ensure that they deliver any promises that they give.	Contractor promises to be monitored and system put in place to ensure the promises are delivered.



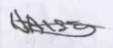
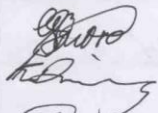

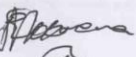


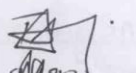
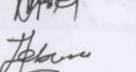
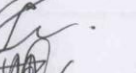
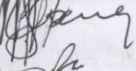
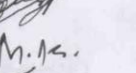
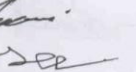


No.	Question/Comment/Issue Raised	Response Given At Forum	Required Further Action
8	<p>The Director of the Dept. Of Roads once promised to have the gravel road graded once a month to improve its condition. This has not happened. The community is making a request to the Dept of Roads Representatives present to take the matter to their director so that they can get some help as the condition of the gravel road has badly deteriorated.</p>	<p>The representative of the Dept of Roads noted the request and will inform their director of the request.</p>	<p>Director of Roads to be notified of the request to have the gravel road serviced.</p>



Date: 08/08/13

Venue: Gamojeremane

Purpose: Road Construction

<u>Name</u>	<u>Organisation</u>	<u>Signature</u>
Dineo Aiseng	Community care giver	
Greeniah Seloro Kgalalelo Kshinyang	Community care giver	
L.P. Kurene	—	
R. Motlana	—	
MA Kgosihe	—	
T.P. Bogosi	—	
M. Moroke	—	
T.J. Sechecho	—	
M.J. Kubang	—	
T.R. Leburu	—	
T.E. Phokoje	Community	
MR M.J. Kubang	—	
Mr. Tsho Boqwaite	—	
Mr. Mogomosi Kogapekwe	—	
MR. ABO Kuthweng	—	
I. Gaebele	—	

APPENDIX 4.6 LETTERS SENT TO AUTHORITIES



TERRA WORKS

**41 Prins Klooflaan
Groenvallei
Bosfontein
RSA**

**PO BOX 28342
Danhof
5210
RSA**

**Tel:
+27 51 412 6350
086 215 6113**

**Fax:
+27 51 412 6351**

**Terra Graphics (PTY) Ltd
T/A Terra Works.**

Reg No: 3000/020654/07

**VAT Reg No:
4700 197 405**

**Directors:
AC Pauw
(Managing)**

**Environmental
Management**

4 November 2013

Attention: Nozi Mazwi
Water Quality Management
Department of Water Affairs
Private Bag X6101
Kimberley
8300

Dear Sir/Madam

**RE: ESTABLISHMENT OF GRAVEL BORROW PITS FOR ROAD
CONSTRUCTION MATERIAL BY THE DEPARTMENT OF ROADS AND PUBLIC
WORKS : EMP CONSULTATION PROCESS**

The Northern Cape Department of Roads and Public Works intends to mine gravel for road construction activities for the rehabilitation of roads in the Joe Morolong Municipal area in the Northern Cape Province. The Department of Roads and Public Works is in the process of applying for the approval of the Environmental Management Plans (EMPs) from the Department of Mineral Resources in order to utilise the borrow pit. Terra Works is the independent environmental assessment practitioner appointed to handle the environmental assessment of the borrow pits. The borrow pits are going to be located on Farm No 49, 111/1, and 770 as shown in the locality maps provided as part of the Information Document for the project.

As part of the interested and affected party consultation process, your organization is being informed of the intentions of Department of Roads and Public works to establish the gravel borrow pits. If you have any comments or concerns regarding the borrow pits, please submit your comments or concerns to our offices by the 13 December 2013. Your comments will be greatly appreciated.

If you require further information on the establishment of the gravel borrow pit or clarifications, do not hesitate to contact us immediately.

Yours faithfully,



Samuel Pauw
Environmental Consultant
E-mail: sp@terraworks.co.za

**UPGRADING OF GRAVEL ROADS IN THE JOE MOROLONG MUNICIPALITY
GRAVEL BORROW PITS**

BACKGROUND INFORMATION DOCUMENT

PURPOSE

This document is a background information document compiled by Terra Works Environmental Consultants for the proposed Gravel Borrow Pits for MR947 Road and MR950 in the Joe Morolong Municipality area. The purpose of the document is to provide an overview of the project and the expected environmental impact assessment (EIA) process to be followed and to invite you as an Interested and Affected Party (IAP) to participate in the EIA process.

PROJECT DESCRIPTION

The Northern Cape Department of Roads and Public Works intends to upgrade two gravel roads in the Joe Morolong Municipal area. The two roads are the road from Laxey to Samsokolo and the gravel road from the N14 road to Dithakong. The upgrading of the roads requires that borrow pits be established to obtain gravel required for the road construction. The need for the project has been brought because of the need to improve the road conditions in the Joe Morolong Municipal area and improve on service delivery.

The borrow pit locations are shown in the locality map provided. The actual area to be mined for each borrow pit is one and a half hectares or less and surface mining methods will be used to extract the gravel.

THE PROJECT APPLICANT

The applicant, for the project is the Northern Cape Department of Roads and Public Works. The applicant intends to apply for the approval of the environmental management plans in terms of the Minerals and Petroleum Resources Development Act, Act 28 of 2002.

THE CONSULTANT

Terra Works has been appointed as the independent environmental assessment practitioners to ensure that the proposed

establishment of the borrow pit is carried out in accordance with the aforementioned Act.

THE APPLICATION PROCESS

The Northern Cape Department of Mineral Resources is the organ of state responsible of approving the Environmental Management Plans. The Environmental Management Plans are being applied for in terms of section 106 (2) of the Minerals and Petroleum Resources Development Act.

ENVIRONMENTAL IMPACT ASSESSMENT PROCESS.

An environmental impact assessment is currently being conducted for each borrow pit. This includes site assessments of the area and use of technical and other information to determine the extent to which the borrow pit activities will impact the surroundings. The expected negative environmental impacts that might occur due to the creation, operation and closure of the borrow pit includes destruction of site vegetation, dust generation, noise pollution, disruption of drainage, visual scarring and erosion.

The aim of the environmental impact assessment is to predict the likely significance of these impacts and put adequate mitigation measures to ensure that the impacts are either eliminated or reduced to acceptable levels.

PUBLIC PARTICIPATION

Who are the Interested and Affected Parties (I&APs)?

You have been identified as an interested and affected party. I&APs are the persons who are directly or indirectly involved and/or affected by the project.

Your role as I&AP is to:

- Register with the environmental consultants, who will include you on a database of registered I&APs in order for you to receive future project information and/or formally record issues and concerns; and
- Contact the consultants to obtain further information and / or raise issues and concerns.

Your issues, concerns or comments will be included in the environmental assessment reports that will be provided to the Department of Mineral Resources which will determine whether to grant approval of the Environmental Management Plans to the Department Of Roads and Public Works. The draft environmental management plans will be available for commenting on request.

Contact Details

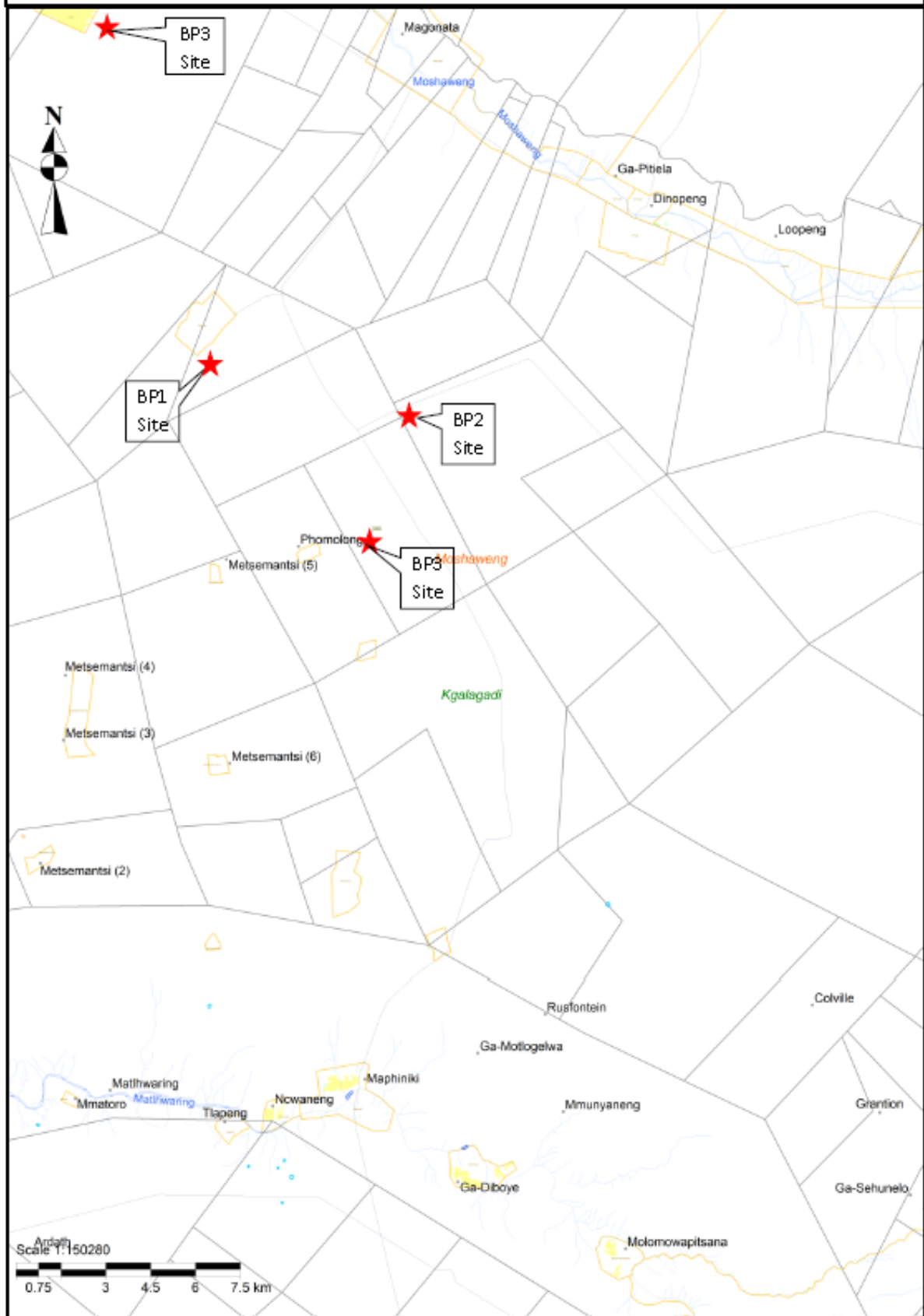
Should you have any queries, comments or concerns, please contact the consultant listed below.

Contact Person : Samuel Pauw
Tel: 051 412 6350
Fax: 051 412 6351
E-mail: sp@terraworks.co.za
Postal Address: P.O. Box 28242
Danhof, 9310

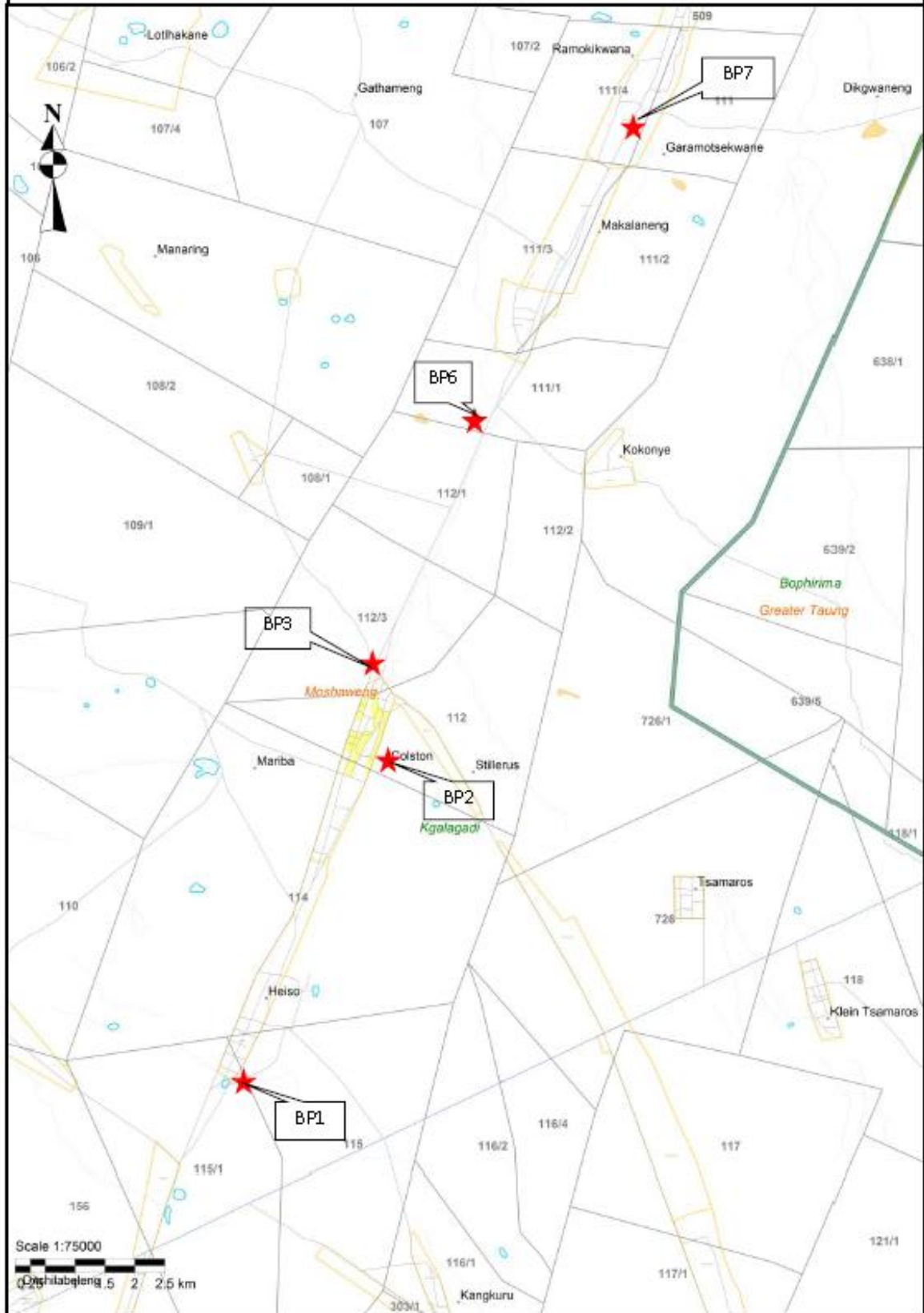
How to Register and Comment

It is important that you let us know that you require to be registered. It is also essential that you submit comments, and please ensure that you provide us with your name, contact details and interest in the project. Comments, questions or issues, which you wish to raise, can be made by in writing (sent to us by fax, e-mail or post). A comment sheet is attached to facilitate the process.

SAMSOKOLO TO LAXEY ROAD BORROW PITS



N14 TO DITHAKONG ROAD BORROW PITS



APPENDIX 4: AUTHORITIES CONTACTED DURING THE CONSULTATION PROCESS

	NAME	ORGANISATION	CONTACT DETAILS
1	Nozi Mazwi	Department of Water Affairs Water Quality Management	Private Bag X6101, Kimberley, 8301, Phone : 053 836 7600
2	Jacoline Mans	Department of Forestry The Chief Forrester	P. O. Box 2782, Upington, 8800 Phone: 054 338 5860 , Fax 054 334 0030
3	Mr. Mashishi	Northern Cape Department of Agriculture, Land Reform and Rural Development.	P. O. Box 26, Kuruman, 8460 Phone 053 773 1590. Fax: 053 773 1800
4	Mr. Timothy Ratha	Northern Cape Provincial Heritage Resources Authority	P.O. Box 1930, Kimberley , 8300 Tel: 053 831 2537, Fax: 053 833 1435
5	Mr. Tlhaole	Joe Morolong Local Municipality Technical Manager	Private Bag X 117, Mothibistad 8474 Phone: 053 773 9300 Fax:053 773 9350
6	Kgalalelo Marintlhwane	Department of Rural Development and Land Reform	P. O. Box X5007, Kimberley, 8302