ENVIRONMENTAL IMPACT ASSESSMENT (EIA): SCOPING REPORT

PROPOSED SOLID WASTE DISPOSAL SITE FOR CURRIESKAMP, NORTHERN CAPE

Applicant: **Kai !Garib Municipality**
Ref No: **NC/SIY/KAI/CUR/02/2012**
Date: **January 2013**

mda
Town & Regional Planners, Environmental & Development Consultants

Physical Address: 9 Barnes Street, Westdene, Bloemfontein, 9301
Postal Address: PO Box 20298, Willows, 9320
Tel: 051 4471583, Fax: 051 4489839
E-mail: admin@mdagroup.co.za

TABLE OF CONTENTS

1. INTRODUCTION

1.1. BACKGROUND TO THE STUDY

The applicant, namely the Kai !Garib Municipality, proposes to upgrade and formalize the existing solid waste disposal site (landfill site) in Currieskamp. The licencing of all the landfills and operating according to their licence requirements is one of the Municipality's goals in terms of the Kai !Garib Municipality's Integrated Waste Management Plan, 2010. The existing solid waste site in Currieskamp is currently not licensed and does not comply with the Minimum Requirements for Waste Disposal as stipulated by the Department of Water Affairs.

The Scoping Report focuses on the possible environmental impacts of the waste disposal site for Currieskamp.

The site is located on a portion of the Farm Blocuso No. 644, Curries Camp, approximately 1 km west of Soverby, at the existing solid waste site.

1.2 TERMS OF REFERENCE

The objective of this study is to conduct a scoping exercise. The broad terms of reference for a scoping exercise are to:

- Scope for issues that would be associated with this planned project;
- Conduct an initial investigation into biophysical and socio-economic aspects, focusing on key issues;
- Identify potential impacts
- Advise the proponent about the potential impacts (positive and negative impacts) of their planned development, as well as the implications for the design, construction and operational phases of the project;
- Facilitate public input on environmental and social matters.

1.3 APPLICABLE LEGISLATION AND GUIDELINES

This process has been conducted in terms of the relevant legislative requirements, namely in terms of:

- National Environmental Management Act (Act No 107 of 1999)
- National Environmental Management: Waste Act (Act 59 of 2008)
- National Heritage Resources Act (Act No 25 of 1999)

- Health Act (Act 63 of 1977)
- National Environmental Management: Air Quality Act (Act 39 of 2004)

The proposed solid waste disposal site is listed as a waste management activity in Government Notice 718 of 2009 published in terms of Section 19 of the National Environmental Management: Waste Act (Act 59 of 2008).

The relevant activity is listed below:

Government Notice No. 718, Category B

Activity 10:
"The disposal of general waste to land covering an area in excess of 200m²"

Activity 11:
"The construction of facilities for activities listed in Category B of this Schedule (not in isolation to associated activity)."

An Environmental Impact Assessment (EIA) process is followed for activities listed in Category B and will therefore be prepared in accordance with the Environmental Impact Assessment Regulations, 2010 (Government Notice No. R. 543 of 18 June 2010) promulgated in terms of Sections 24(5), 24M and 44 of the National Environmental Management Act (Act No. 107 of 1998).

Application for Scoping and EIA has therefore been made to the Northern Cape Department of Environment and Nature Conservation (DENC).

2. ENVIRONMENTAL ASSESSMENT PRACTITIONERS

2.1 DETAILS OF ENVIRONMENTAL ASSESSMENT PRACTITIONERS (EAPS) WHO PREPARED THE REPORT

A multi-disciplinary team of specialists contributed to the information presented in this document:

Co-ordination, supervision, management

Mr. Neil Devenish - MDA Consultants

Public Participation and Report Writing

Me. Marguerite Cronje - MDA Consultants

2.2 EXPERTISE OF THE EAPS TO CARRY OUT THE SCOPING PROCEDURES

a) **Mr. Neil Devenish**

Key qualifications:

- Key competencies and experience include development control applications (applications and appeals pertaining to rezoning, consolidations, subdivisions etc.) township establishment applications, environmental management and control applications.

Education:

- B.A. (Sociology, Geography) University of the Free State, SA, 1994
- Master of Town and Regional Planning, University of the Free State, SA, 1996
- Managing the Environmental Impact Assessment Process, Environmental Management Unit, PU for CHE, 2000
- Environmental Management Consulting, South African Institute of Ecologists & Environmental Scientists, 2001
- Water Law of South Africa, The South African Institution of Civil Engineers (SAICE), 2006

b) **Me. Marguerite Cronje**

Key qualifications:

- Key competencies and experience include environmental management and research in zoology.

Education:

- B.Sc. (Zoology), University of the Free State, SA, 2002
- B.Sc. Honnours (Zoology), University of the Free State, SA, 2003
- M.Sc. Diploma (Equine Science), University of Edinburgh, UK, 2005
- Masters in Environmental Management, University of the Free State, SA, 2008

Conferences:

- 10 years of Environmental Impact Assessments in South Africa – Somerset West (2008)
- Free State Provincial Waste Summit – Bloemfontein (2010)

3. PROJECT INFORMATION

3.1 PARTICULARS OF APPLICANT

Kai !Garib Municipality

Private Bag X6
KAKAMAS
8870

Tel: 054 4616400
Fax: 086 5028887

3.2 DESCRIPTION OF SOLID WASTE DISPOSAL SITE

The municipal solid waste currently being generated by Soverby and Currieskamp is approximately 1.533 tonnes of waste per day and is estimated to increase to 1.782 tonnes per day by 2040. The size of the site required for waste disposal is therefore 0.636 ha.

The proposed solid waste site is classified as G:C:B^- in terms DWAF's Minimum Requirements, where:

G = General waste, which includes household waste, builders rubble, garden refuge and non-hazardous industrial waste.

C = Communal, which means the site will accept less than 25 tonnes of waste per day.

B^- = The climatic water balance of the area is negative as the evaporation exceeds rainfall and the solid waste site is therefore not expected to produce significant leachate.

A pre-constructed Cell Method is proposed as the method of waste disposal. Waste will be deposited directly into a working cell / trench, which are compacted and covered on a daily basis. The cells trap the waste, thereby improving the aesthetic appearance of the site and reducing the amount of litter generated. Once the cells have been filled, they are capped with a final cover and rehabilitated. Compacting is best achieved when waste is spread in layers not exceeding 500mm and passed over at least five times with a loader or other suitable equipment. This is an essential feature of the landfill operation and is necessary to maintain a well run and visually acceptable site.

Storm water will be diverted around the site in order to prevent contamination of the surrounding drainage area.

Associated infrastructure proposed for the site includes:

- Guard house with ablutions and store room;
- Potable water supply and conservancy tank for sewage storage;
- A covered area is to be constructed and bins provided for recyclable material;
- External stormwater diversion channels and internal run-off collection and retention system;
- Upgrading of fence;
- Parking and waste inspection area;
- Signage.

Refer to the proposed site development plan in **Annexure B**.

3.3 NEED AND DESIRABILITY OF PROPOSED ACTIVITY

The upgrading and formalising of the solid waste disposal site in Keimoes is required for the following reasons:

- Existing solid waste disposal site is not permitted;
- The existing solid waste disposal site does not comply with the Minimum Requirements for Waste Disposal stipulated by the Department of Water Affairs.

3.4 DESCRIPTION OF FEASIBLE AND REASONABLE ALTERNATIVES

3.4.1 **Site alternatives:** The existing solid waste site was found to be favourable in terms of location and environmental considerations.

3.4.2 **Activity alternatives:** The proposed activity, namely a solid waste disposal site, is the only activity alternative, due to the need for this activity as part of the Municipality's waste management goals.

3.4.3 **Design alternatives:** Site classification, airspace and site life determine the conceptual design of a solid waste disposal site. The technical design is then based on the conceptual design, but also

includes detailed specifications on materials, measurements and procedures. The most appropriate design for landfill disposal for the site has therefore been determined by the engineers.

3.4.4 **No-go option:** The no-go option means keeping the status quo, i.e. not expanding and upgrading the existing waste site. This option will be discussed in more detail in the EIA Report.

4. ENVIRONMENTAL ASPECTS

4.1 LITERATURE REVIEW

Literature pertinent to this area and its immediate environs has been reviewed. The literature included published and unpublished reports: Branch, 1998, Bredenkamp, *et al.* 1996, Brooke 1984, Bulpin 1980, Golding, 2002, Harrison *et al.* 1997, Henderson 2001, Hilton-Taylor 1996, Low & Rebelo 1996, Mucina & Rutherford 2006 and Smithers 1986.

4.2 INFORMATION ON THE METHODOLOGY OF SCOPING

This report addresses the biophysical as well as the socio-economic environments. The information was captured in the following manner:

- A site visit was conducted on 17 May 2012 to determine the setting, visual character and land-uses in the area;
- Site surveys to identify any plant and animal populations that could be impacted by the development;
- The project plans were superimposed onto the gathered baseline environmental information to identify possible impacts;
- Discussions were held with the client to identify specific aspects of the development which could affect the environment;
- Interested and Affected Parties (I & APs) were informed and consulted by notice boards and advertisements to capture issues that could affect the environment;
- Identification of positive as well as negative issues;
- Making recommendations and presenting guidelines for the mitigation of impacts identified during this exercise.

4.3 DESCRIPTION OF THE ENVIRONMENT

4.3.1 Biophysical Environment

The area consists of undulating plains with a large degree of surface rock. The altitude in the area varies from 600 to 1200 m.a.s.l.

4.3.1.1 Climate

The area receives its rainfall mainly in summer and early autumn with an average annual rainfall in the range of 70 - 200 mm. There is a large difference between summer and winter average temperatures

with frost occurring in winter. Dust devils (whirl winds) are a regular occurrence on hot summer days.

4.3.1.2 Geology

The underlying geological formations of the area are currently being determined and more detail regarding the geology and geohydrology of the site will be included in the EIA Report.

4.3.1.3 Terrain forms & habitats

Table 1: Terrain form and habitats area to be developed

Terrain form		Habitat types	
Hill top		Grassland	✓
Hill side		Karoo	
Flat	✓	Karroid (scattered)	
Valley		Natural forest	
River bank		Plantations	
Wetland		Ploughed or fallow fields	
Foot slope		Riparian	
		Savanna	
		Shrub	
		Wetland	
		Other	

4.3.1.4 Soils

A geotechnical investigation of the site will be undertaken and included in the EIA Report.

4.3.1.5 Vegetation of area

Mucina & Rutherford (2006) describe this area's vegetation as Bushmanland Arid Grassland (NKb 3).

The vegetation of the area consists of extensive to irregular plains on a slightly sloping plateau with sparsely vegetated grasslands dominated by white grasses (*Stipagrostis* species).

An ecological assessment of the site has been undertaken and will be included in the EIA Report.

4.3.1.6 Animals (moths, butterflies, reptiles, fish, birds & mammals)

As the site has already been transformed, it is unable to sustain a healthy faunal population. A colony of Ground Squirrels (*Xenus inanus*) is present in and around the entrance to the site. No evidence of other animals was found.

An ecological assessment of the site has been undertaken and will be included in the EIA Report, which will also include a list of red data terrestrial animals that could possibly be found in the region.

4.3.1.7 Aquatic systems

None.

4.3.1.8 1 : 100 year flood line

The solid waste disposal site is located above the 1:100 year flood line.

4.3.2 Socio-economic Environment

The Kai !Garib Municipality, which covers an area of approximately 7500 km², falls within the Siyanda District Municipal area and comprises the towns Kakamas, Keimoes and Kenhardt and. Keimoes is located approximately 40 km west of Upington. The Orange River is the most important life source of the area in terms of natural and economic services that depend on it. Kakamas and Keimoes are situated in the centre of an intensive farming community with agriculture being the most important economic sector with the largest economic growth potential. Commercial farming includes grapes for export, raisins and wine.

According to the Kai !Garib Municipality draft Integrated Development Plan (IDP) (2009), which cites STATS SA: Community Survey (2007), the total population of the Kai !Garib Municipal area is 55 501.

Although they are very small settlements, the upgraded solid waste disposal site will improve the existing waste management infrastructure at Currieskamp and Soverby. Work opportunities will also be created during the construction and operational phase of the waste site.

4.3.2.1 Surrounding land uses

The surrounding area is used for agriculture, mainly grazing. The nearest residential area is located approximately 400m from the site. Also refer to the locality plan in **Annexure A**.

4.3.2.2 Historical, archaeological or cultural sites

An Archaeological and heritage specialist has been appointed to assess the site and determine whether any significant material or graves are present at or near the site. The assessment will be included in the EIA Report.

4.4 DESCRIPTION OF POSSIBLE ENVIRONMENTAL IMPACTS, ISSUES AND CUMULATIVE IMPACTS

Developments such as these do have, like many other types of developments, various direct but also indirect impacts on the environment. These impacts have to be managed in order to have the minimum environmental impact and the maximum benefit to man.

Issues identified during the Scoping process are listed below:

4.4.1 Vegetation destruction

Natural vegetation of the site has ultimately been destroyed by the operations of the existing landfill site. An ecological assessment has however been undertaken to assess the sensitivity of the natural vegetation of the area to be extended as well as for the area in general. This study will be included in the EIA Report.

4.4.2 Soil suitability

A geotechnical study, to investigate the subsurface conditions and determine whether the site is suitable for waste disposal, is being compiled and will be included in the EIA Report.

4.4.3 Impact on groundwater

Waste disposal could have a detrimental impact on groundwater if not managed correctly. An assessment of the groundwater conditions in the area has therefore been undertaken. The findings of which will be discussed in the EIA Report.

4.4.4 Visual Impact

The visual impact of the proposed development in the landscape is the function of several factors of which the viewing distance, visual absorption capacity and landform are measurable. Other factors are difficult to categorize because they are subjective viewpoints.

The visual impact for the proposed development is largely due to:

- The extent of the proposed development.
- Distance from roads.
- The low visual absorption capacity of the surrounding landscape.

There are no critical viewpoints for this development as the proposed site is not located near to a main road, residential area, etc.

4.4.5 Impact on air quality

Due to the classification and extent of the proposed waste disposal site, a significant risk to air quality is not anticipated and an air quality assessment not deemed necessary. As an incinerator is not part of the proposed waste disposal site, Category 8 of the Minimum Emission Standards of the National Environmental Management: Air Quality Act (Act 39 of 2004) is not applicable.

4.5 SPECIALIST STUDIES AND SPECIALIZED PROCESSES

The necessary specialised studies and specialised processes will be performed according to Section 32 of the NEMA 2010 Regulations. Specialised studies relevant to the project include:

4.5.1 Ecological Assessment

An ecological study to assess the area for protected and endangered plant and animal species.

H2ON Environmental Specialists
Suite 158
Private Bag X01
Brandhof
Bloemfontein
9324
Tel: 051 4444700

Area of expertise: Environmental Practitioners, Botany and Ecology Specialists

4.5.2 Geotechnical Assessment

A geotechnical study to assess the soil conditions of the site.

Stabilis
P.O. Box 861
Kimberley
8300
Tel: 053 8331654

Area of expertise: Civil and structural engineers.

4.5.3 Geohydrological Assessment

Inputs and recommendations on the geohydrology (groundwater conditions) of the area will be obtained from:

MBB Consulting Services (South) (Pty) Ltd
P.O. Box 3011
Matieland
7602
Tel: 021 8871026

Area of expertise: Civil, structural and environmental engineering.

4.5.4 Archaeological Assessment

An Archaeological Study to investigate the archaeological, historical and cultural significance of the site. The study has been undertaken by:

Mr. Cobus Dreyer
P.O. Box 12910
Brandhof
9324
Tel: 051 444 1187
Fax: 051 444 4395
Cell: 083 3577982

Area of expertise: Archaeology and Heritage Specialist

5. PUBLIC PARTICIPATION

5.1 INTRODUCTION AND OBJECTIVES

As an important component of the EIA process, the public participation process involves public inputs from Interested and Affected Parties (I & APs) according to Section 56 of the NEMA 2010 Regulations. I & APs may comment during the EIA of the proposed project.

The key objectives of the public participation process are to:

- Identify a broad range of I & APs, and inform them about the proposed project.
- Understand and clearly document all issues, underlying concerns and suggestions raised by the I & APs, and
- Identify areas that require further specialist investigation

5.2 METHODOLOGY

The following actions have already been undertaken as part of this process:

- Advertisement in the local newspaper
- On-site notices

5.2.1 Identification of key I & AP's

Key I & AP's, are the following types of organizations:

- Surrounding landowners
- Environmental organizations
- Authorities
- GOs
- NGOs
- Business and civic organizations

See **Annexure D3** for a list of I & AP's.

5.2.2 Notification of potential I &AP's of EIA:

i) Newspaper advertisement: (Annexure D1)

Die Gemsbok	25 May 2012

ii) On site notices: On site notices were also placed at the site on 17 May 2012 allowing 30 days for public response **(Annexure D2)**.

5.2.3 Comments

The Scoping Report was circulated for a 60-day comment period. No comments were received.

5.3 SUMMARY OF KEY ISSUES RAISED BY THE I & AP's

None to date.

6. PLAN OF STUDY (Proposed approach to EIA)

6.1 DESCRIPTION OF TASKS AS PART OF EIA

6.1.1 Proceeding with public participation

After the acceptance of the Scoping Report by the Northern Cape Department of Environment and Nature Conservation (DENC), the public participation process for EIA can proceed according to Section 56 of the NEMA 2010 Regulations. See 6.5 for the steps to be taken as part of the process.

6.1.2 Steps in accordance with the Plan of Study for EIA

All activities and processes will be undertaken in accordance with the submitted Plan of Study for EIA for the relevant project. This process is subject to acceptance of the Scoping Report by the DENC.

6.1.3 Register Interested & Affected Parties (I & APs)

6.1.3.1 List of I & APs

All departments and organisations having jurisdiction in respect of any aspect of the proposed development will be included in the list of I & APs. Also all persons giving written comments (positive or negative) or persons directly influenced by the proposed development will also be registered.

The initial list of I & APs is as follows:

i. Stakeholders
ii. Public registered
iii. Surrounding landowners

6.1.3.2 Issues raised by I & APs

A summary of all issues raised by the I & APs, as well as the responses from the Environmental Assessment Practitioner (EAP) or relevant specialists will be included in the EIA report.

6.1.4 Development alternatives

Site and activity alternatives are not applicable for this project. Therefore the proposed activity and the alternative to not proceed with the proposed activity will be assessed. Also to be listed in this section

will be the advantages and disadvantages of the proposed activity and the no-go alternative, for the environment and the community.

6.1.5 Assessment of identified potentially significant impacts:

6.1.5.1 Potential Impacts

The identified potential impacts listed in the Scoping Report will be discussed in terms of its:

- Cumulative impact
- Nature of the impact
- Extent and duration of the impact
- The probability of the impact occurring
- Degree to which the impact can be reversed
- Degree to which the impact can cause irreplaceable loss of recourses
- Degree to which the impact can be mitigated

6.1.5.2 Summary of findings

A summary of all the significant findings in the previous section will be drawn up. Overall, this will include the following:

- Summary of the key findings of the EIA;
- An indication of the extent to which the issues could be addressed by the adoption of listed mitigation measures.
- Recommendations from the environmental practitioner and specialists;
- Any specialist reports or reports on specialized processes;
- Description of any assumptions, uncertainties and gapes in knowledge;
- Option to whether the activity should be authorized and any conditions that should be made in respect of the authorization.

6.2 SPECIALIST REPORTS AND SPECIALIZED PROCESSES

The required process regarding specialist reports and specialized processes for the relevant development is as follows:

i. Specialists will be appointed either by the EAP or the developer;
ii. The reports and processes will be performed and obtained from the relevant specialists as mentioned in section 4.5 of the Scoping Report;
iii. Obtained reports and processes will be incorporated in the EIA Report;
iv. Project plans will be reviewed according to recommendations of specialists to ensure minimum environmental impact;
v. The relevant specialist input include the following:
    - Ecological Assessment
    - Geotechnical Assessment
    - Geohydrological Assessment
    - Archaeological Assessment

6.3 STAGES OF AUTHORITY CONSULTATION

The DENC will be consulted at stages when guidance is required in terms of clarification of listed activities, as well as correct processes to follow in the case of unusual projects or requests.

6.4 METHODOLOGY OF ASSESSING ENVIRONMENTAL ISSUES AND ALTERNATIVES

The EIA report will address the biophysical, as well as the socio-economic environments for all alternative site locations and activities. The information will be captured in the following manner:

i. Site visits to determine the setting, visual character and land-uses in the area;
ii. Site surveys to address the identified impacts of the development on any plant and animal populations;
iii. The project plans will be superimposed onto the gathered baseline environmental information of identified impacts;
iv. The project plans will be revised according to the identified environmental sensitive areas to ensure the least environmental impact possible;
v. Detailed discussions will be held with the client to address specific aspects of the development which could affect environment;

vi. I&APs will be consulted by phone, letters and meetings, if necessary, to capture additional issues of importance at this stage;
vii. Making recommendations and presenting guidelines for the mitigation of impacts addressed during this exercise;
viii. The option of not proceeding with the development will be considered and evaluated.

6.5 PARTICULARS OF PUBLIC PARTICIPATION PROCESS AS PART OF EIA

The public participation process will be continued as part of the EIA and the necessary steps will be included, which can be the following:

i. Recording of I & APs comments, according to Section 57 of the Regulations;
ii. Respond to any concerns or complaints from I & APs;
iii. Public meetings if deemed necessary;
iv. A draft EIA report will be compiled and will be made available for review by the I & APs for a period of 60 days;
v. Notify I & APs of the outcome of the application in writing within a period determined by the DENC.

6.6 SPECIFIC INFORMATION REQUIRED BY THE COMPETENT AUTHORITY

Additional relevant information will be provided on request of the competent Authority.

6.7 CONSIDERATION OF SCOPING REPORTS

Steps to be taken by the competent authority after submission of the Scoping for EIA:

i. Consider the Scoping Report within 30 days of receipt;
ii. Accept the Scoping Report and the Plan of Study for EIA;
iii. Advise EAP to proceed with tasks contemplated in the Plan of Study for EIA;
iv. Request EAP to amend the Scoping Report or Plan of Study for EIA;
v. Reject the Scoping Report or EIA if it:
    - does not contain material / information required;
    - has not taken the relevant guidelines into account.

7. CONCLUSION

The applicant, namely the Kai !Garib Municipality, proposes to upgrade and formalize the existing solid waste disposal site (landfill site) in Currieskamp. The licencing of all the landfills and operating according to their licence requirements is one of the Municipality's goals in terms of the Kai !Garib Municipality's Integrated Waste Management Plan, 2010. The existing solid waste site in Currieskamp is currently not licensed and does not comply with the Minimum Requirements for Waste Disposal as stipulated by the Department of Water Affairs.

The site is located on a portion of the Farm Blocuso No. 644, Curries Camp, approximately 1 km west of Soverby, at the existing solid waste site.

The Scoping Report focuses on the possible environmental impacts of the waste disposal site for Currieskamp.

The overall terms of reference for this scoping exercise are to:

- Scope for issues that would be associated with this proposal;
- Do an initial assessment of the biophysical and socio-economic aspects, thus focusing on key issues;
- Identify and advise the client about the potential impacts (negative as well as positive) of the planned development, and the implications for the design, construction and operation of the project, and
- Facilitate public input on environmental matters.

Identified issues documented in this report are related to the biophysical environment, which will require appropriate mitigation by the proponent as will be specified in the EIA Report.

The following potential issues were identified during the scoping phase:

- Destruction of natural vegetation
- Soil suitability
- Impact on groundwater
- Visual impact
- Impact on air quality

The identified issues will be addressed and mitigated by means of specialist assessments, which will be included in the EIA Report.

Specialist inputs include:

- Ecological
- Geotechnical
- Geohydrological
- Archaeological

The Plan of Study for EIA stipulates the steps to be taken and the information to be included in the EIA Report, which will be submitted after approval of the Scoping Report.

8. LITERATURE

ALONSO, S.G., AGUILO, M. & RAMOS, A. (1986). Visual impact assessment methodology for industrial development site review in Spain. In: Smardon, R.C., Palmer, R.F. & Felleman, J.P. *Foundations for Visual Project Analysis*. Wiley & Sons, New York.

CAVE KLAPWIJK & ASSOCIATES (1998). Delportshoop Tower Mast: Visual impact assessment. Unpublished report, Pretoria.

DEPARTMENT OF WATER AFFAIRS AND FORESTRY (1998). *Minimum Requirements for Waste Disposal by Landfill*. Second Edition. Waste Management Series.

HULL, R.B. & BISHOP, L.E. (1988). Scenic impacts of electricity transmission towers: The influence of landscape type and observer distance. *Journal of environmental management* (27) 99-108.

KAI !GARIEP MUNICIPALITY (2009). *Draft Integrated Development Plan.*

MBB CONSULTING SERVICES (SOUTH) (PTY) LTD (2011). *Kai !Garib Municipality Preliminary design report for upgrading of existing landfill sites.*

MUCINA, L. & RUTHERFORD, M.C. (eds) (2006). *The vegetation of South Africa, Lesotho and Swaziland*. Strelitzia 19. South African National Biodiversity Institute, Pretoria.

SMARDON, R.C., PALMER, J.F. & FELLEMAN, J.P. (1986). *Foundations for Visual Project Analysis*. Wiley & Sons, New York.

SMITHERS, R. (1986). *Land Mammals of Southern Africa.* Johannesburg: MacMillan, South Africa Ltd.

LIST OF ANNEXURES

ANNEXURE A

Map of Region / Locality Plan

TYPE OF PLAN:

LOCALITY PLAN

APPLICATION SITE

mda Town & Regional Planners, Environmental & Development Consultants

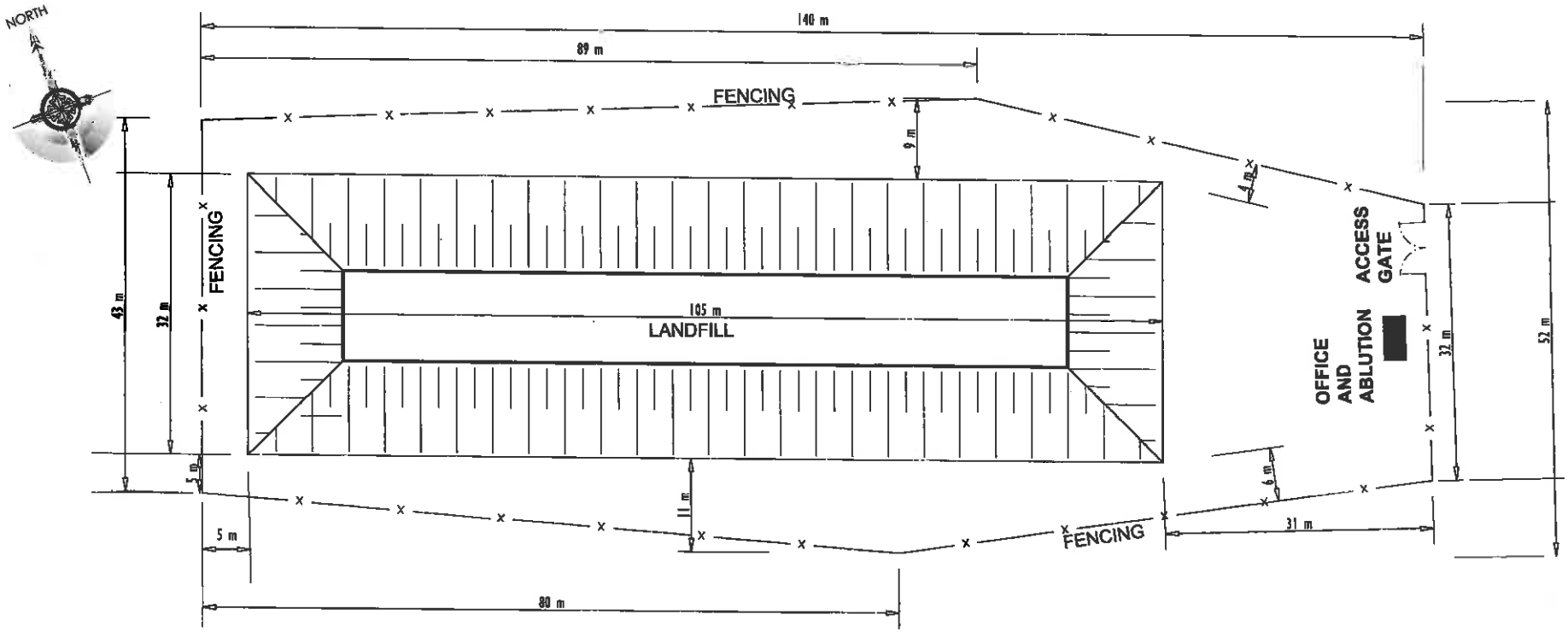
PO Box 20298
Willows 9320
Tel: +27(51) 447-1583
Fax: +27(51) 448-9839

9 Barnes Street
Westdene
BLOEMFONTEIN
E-mail: admin@mdagroup.co.za

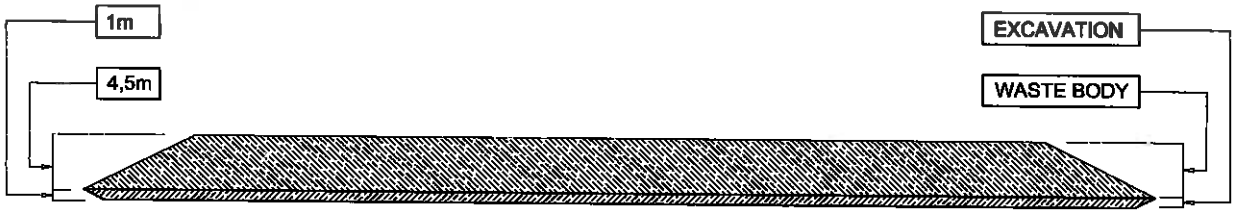
PROJECT: **PROPOSED WASTE TRANSFER STATION SITE AT CURRIES CAMP**	SCALE: **N.T.S.**	DATE: **19/07/2012**
PROJECT BY: **KAI !GARIB MUNICIPALITY**	DRAWN BY: **C.J.**	DRG No.: **40596 MD51**

ANNEXURE B

Site Development Plans



SITE DEVELOPMENT LAYOUT



SECTION THROUGH LANDFILL (WASTE BODY AND EXCAVATION)

MBB CONSULTING SERVICES (SOUTH) (PTY) LTD

-

PROPOSED LANDFILL SITE, CURRIESKAMP

REVISION	DATE	Q.A

SCALE	-
DATE	JUL 2012
DRAWN	HGB
CHECKED	JvH

DRAWING NUMBER

F CODE	PROJECT NUMBER	DISCP. CODE	SUB-ASSY.	DRAWING CODE	REVISION NR.
J	1600	20	A3	204	R00

ANNEXURE C

Site Photos

Photo 1: View of site and existing access road towards the west.

Photo 2: View of the boundary of the site from the east.

Photo 3: View of Ground Squirrel burrows within the site, near to the entrance.

Photo 4: Circles indicate protected Aloe species observed just outside the waste site, which should not be affected if waste disposal is restricted to the site.

ANNEXURE D

Public Participation

ANNEXURE D1

Newspaper Advertisement

"Die Gemsbok"

25 May 2012

Nadere besonderhede is verkrygbaar vanaf die Raad se Stadsbeplanner. Telefoon 054-3387372, gedurende normale kantoorure (Maandae tot Vrydae, 07 30 tot 12 30 en 13 30 tot 16 30) en besware teen die aansoek, indien enige, moet skriftelik by die Munisipale Bestuurder ingedien word om bom voor of op Vrydag, 15 Junie 2012, te bereik. Indien enige persoon wat kommentaar wil lewer/vertoe wil rig, nie kan skryf nie, kan sodanige persoon gedurende normale kantoorure voor of op Vrydag, 15 Junie 2012, by Mnr J du Plessis by kantoor 57 aanmeld, waar sodanige persoon se kommentaar/vertoe op skrif gestel sal word.

WJB ENGELBRECHT, MUNISIPALE BESTUURDER, Burgersentrum Markstraat, Privaatsak X6003, UPINGTON 8800

Erf 3437, Upington

ENVIRONMENTAL IMPACT ASSESSMENT

SCOPING

PUBLIC PARTICIPATION PROCESS

Notice is given in terms of Regulation 54(2)(c) of Regulations No. R 543 published in the Government Notice No 33306 of 18 June 2010 of the National Environmental Management Act (Act No 107 of 1998) with the intent to carry out the following waste management activities in respect of which Waste Management Licences are required in accordance with Section 20(b) of the National Environmental Management: Waste Act, 2008 (Act No 59 of 2008):

Project 1:	**New solid waste disposal site for Keimoes, Northern Cape**
Locality	The new solid waste disposal site will be located at the existing waste site within Keimoes and include the upgrading, expansion and licensing thereof
Project 2:	**New solid waste disposal site for Currieskamp, Northern Cape.**
Locality	The new solid waste disposal site will be located at the existing waste site in Curneskamp and include the upgrading, expansion and licensing thereof
Project 3:	**Proposed waste transfer site in Augrabies, Northern Cape**
Locality	The new waste transfer site is planned adjacent to and to the north of the communal sports field next to the R359 road in Augrabies.
Projects by:	**Kai !Garib Municipality**

If you have any information or comments regarding the environmental impact of the proposed projects, need additional information regarding the proposed projects or would like to register as an interested and affected party, please submit your name, contact information and interest to the following consultants within 30 days of date of this notice

mda

PO Box 20298,
Willows, Bloemfontein
9320
Tel: (051) 447 1583, Fax: (051) 448 9839
e-mail: marguerite@mdagroup.co.za
Contact person: Marguerite Cronje

property

1	Description of Property	Erven 3437 Upington
2	Site	11 Booysen Street, Upington
3	Area	659m²
4	Applicant	L & W Liebenburg, AS du Toit
5	Registered Owner	JP & N Wickens
6	Present Utilization	Residential Zone I
7	Purpose of Application	Consent use: Guesthouse

Full particulars are obtainable from the Town Planner of the Council, Telephone 054-3387372, during normal office hours (Monday to Friday, 07 30 – 12 30 and 13:30 – 16:30) and objections against the application, if any, must be lodged in writing with the Municipal Manager before or Friday, 15 June 2012. Any person with objections against the application, who is unable to write, can during normal office hours on or before Friday, 15 June 2012, report to Mr J du Plessis, Building Section, room 57, who will put such a persons objections in writing

WJB ENGELBRECHT, MUNICIPAL MANAGER, Civic Centre Market Street, Private Bag X6003, Upington, 8800

Erven 3437, Upington

KAI !GARIB MUNICIPALITY
NOTICE NO 07/2012

TOWN PLANNING SCHEME : PROPOSED SUBDIVISION, PARTIAL REZONING, CONSENT USE AND REMOVAL OF RESTRICTIONS ON PORTION 65 OF THE FARM ROOIKOPEILAND 343, KENHARDT RD, 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 !Garib Municipality, that it is the intention of the Council to consider the under mentioned actions on immovable property

1 Portion 65 of the Farm Rooikopeiland 343, Kenhardt RD (14.7934ha)

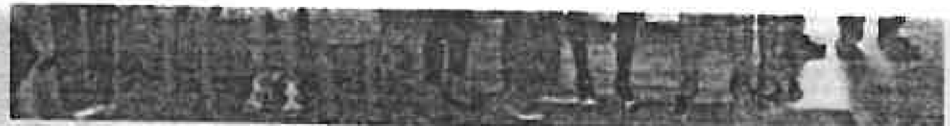
1.1 Proposed partial rezoning, consent use and subdivision

1 Description of Property	Portion 65 of the Farm Rooikopeiland 343, Kenhardt RD
2 Site	South east of Keimoes, adjacent to the R27 between Keimoes and Kenhardt
3 Area	14.7934ha
4 Applicant	Status (VP McPherson)
5 Registered Owner	Johannes Bester de Kock (Title Deed Nr T38597/2001)
6 Present Utilization	Agricultural Zone I
7 Proposed Utilization	Business Zone I
8 Proposed Consent Use	Liquor Store
9 Purpose of application	To cut off and rezone 1500m² of the property to Business Zone I with the consent use liquor store, to legally accommodate a shopping center and liquor store

1.2 Removal of Restrictions
Nature of application: Removal of restrictive title conditions as enumerated in Title Deed R38597/2001 p 4 Section D 5 to facilitate the partial rezoning and proposed consent use of Portion 65 of the Farm Rooikopeiland 343, Kenhardt RD

Full particulars are obtainable from the office of the Municipal Manager (Keimoes Office), during normal office hours (07 30 – 13:00 and 14:00 – 16 30) and objections against the application, if any, must be lodged in writing to the Municipal Manager on or before Friday 1 June 2012. Any person with objections against the application, who is unable to write, can during normal office hours on or before Friday 1 June 2012, report to Miss EY de Jager (Keimoes office) who will put such a person's objections in writing

MUNICIPAL MANAGER, Kai !Garib Municipality, P.O. Box 8 Keimoes, 8860



Die Jeuggroep trakteer die dames met hul sang tydens die diens.

TE LAAT VIR KLASSIFIKASIE

26. TE LAAT VIR KLASSIFIKASIE

Vervolg van bl. 18

MUNISIPALITEIT KAI !GARIB
KENNISGEWING NR 07/2012

DORPAANLEGSKEMA: VOORGESTELDE ONDERVERDELING, GEDEELTELIKE HERSONERING, VERGUNNINGSGEBRUIK EN OPHEFFING VAN BEPERKENDE VOORWAARDES OP GEDEELTE 65 VAN DIE PLAAS ROOIKOPEILAND 343, KENHARDT RD, NOORD-KAAP PROVINSIE

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

1. Gedeelte 65 van die Plaas Rooikopeiland 343, Kenhardt RD (14.7934ha)

1.1 Voorgestelde gedeeltelike hersonering, vergunningsgebruik en onderverdeling

1	Beskrywing van Eiendom	Gedeelte 65 van die Plaas Rooikopeiland 343, Kenhardt RD
2	Ligging	Suid-oos van Keimoes, aangrensend tot die R27 tussen Keimoes en Kenhardt
3	Oppervlakte	14.7934ha
4	Aansoeker	Status (VP McPherson)
5	Geregistreerde Eienaar	Johannes Bester de Kock (Titelakte Nr T38597/2001)
6	Huidige Gebruiksaanwysing	Landbousone I
7	Voorgestelde Gebruiksaanwysing	Sakesone
8	Voorgestelde Vergunningsgebruik	Drankwinkel
9	Doel van aansoek	Om 1500m² af te sny en te hersoneer na Sakesone I met die vergunningsgebruik drankwinkel, om die ontwikkeling van 'n winkelsentrum en drankwinkel wettiglik te akkommodeer

1.2 Opheffing van Beperkende Voorwaardes.
Aard van aansoek: Opheffing van beperkende titelvoorwaardes, soos vervat in Titelakte T38597/2001 bl 4 Afdeling D 5 ten einde die gedeeltelike hersonering en voorgestelde vergunningsgebruik op Gedeelte 65 van die Plaas Rooikopeiland 343, Kenhardt RD te oorweeg.

Nadere besonderhede is verkrygbaar by die kantoor van die Munisipale Bestuurder (Keimoes Kantoor) gedurende normale kantoorure (07 30 – 13 00 en 14 00 – 16 30) en besware teen die aansoek, indien enige, moet skriftelik by die Munisipale Bestuurder ingedien word om hom voor of op Vrydag 1 Junie 2012, te bereik. Indien enige persoon wat kommentaar wil lewer/vertoe wil rig, nie kan skryf nie, kan sodanige persoon gedurende normale kantoorure voor of op Vrydag 1 Junie 2012 by Mej EY de Jager (Keimoes kantoor) aanmeld, waar sodanige persoon se kommentaar/vertoe op skrif gestel sal word

MUNISIPALE BESTUURDER, Munisipaliteit Kai !Garib, Posbus 8 Keimoes, 8860

PAMGOLDING: Uitstekende ligging. Ideaal geleë vir gastehuis/kantore en noem maar op, baie sigbaar, mooiste skaduryke tuin, onderdak braai. 4 slk's, 3 bdk's, 3 leefareas & wstel. Onder R1,2 milj Filon – 082 4935497, Anna – 083 561 5842, Dawid – 082 339 6805; Marna – 078 8000210

ac/25/05

PAMGOLDING: Klinkersteen Reuse gesinshuis met baie ruim vertrekke, groot leefareas, lekker plaaskombuis 3 – 4 slk's net soos jy dit wil maak. Onder R1,5 milj. Anna – 083 561 5842 Dawid – 082 339 6805, Marna – 078 8000210 Filon – 082 4935497

ac/25/05

PAMGOLDING: Onthalers droom. Alleenmandaat – Pragtig nuutoorgedoen 3 slk huis, lekkerste leefares met ingeboude kroeg en binnebraai, kuierslaap hy swb en nog baie meer – treffer van formaat. Onder R1,8 milj en lekker naby die dorp. Dawid – 082 339 6805, Anna – 083 561 5842; Filon – 082 493549/; Marna – 078 8000210

ac/25/05

ALGEMEEN TE HUUR.

PAMGOLDING. Reuse 4 slk huis met lapa en swb en 3 bdk's en k/woonstel – R8500 Filon – 082 4935497 Dawid – 082 339 6805

ac/25/05

PAMGOLDING. 1,5 slk wstel met onderdak parkering – R4500 Filon – 082 4935497, Dawid – 082 339 6805

ac/25/05

PAMGOLDING. 3 slk huis met onderdak parkering, onderdak braai & uitsig oor van tedoom – R7500 Filon – 082 4935497, Dawid – 082 339 680

ac/25/05

PAMGOLDING. 4 slk huis vir R6700.00 te huur – kry R1500.00 inkomste van wstel – Anna 0835615842

ac/25/05

PAMGOLDING. 1 slk wstel te huur – Anna 0835615842

ac/25/05

PAMGOLDING: 3 slk huis op Keimoes te huur vir R4800.00 Anna 0835615842

ac/25/05

PAMGOLDING. 1 slk wstel te huur met meubels vir R3850.00 – Anna 0835615842

ac/25/05

30 jarige man soek dringend werk – bereid om te leer. Skakel 073 147 6639

41915/25/05

VORM 2
KENNISGEWING VAN VOORNEME OM KRAGTENS ARTIKEL 20 VAN DIE WET VIR 'N LISENSIE AANSOEK TE DOEN
[Reg. 4(1)]
NOORD-KAAP DRANKWET, 2008

Kennis geskied hierby dat dit die voorneme is om die bogenoemde aansoek, waarvan besonderhede hieronder verskyn, by die Noord-Kaap Drankraad in te dien
Munisipaliteit: Gamagara
Volle naam, straat- en posadres van aansoeker
Business Shelf 2 BK, Erf 676, Nieshoutstraat 16, Kathu, Posbus 721, Strand, 7139
Soort lisensie waarvoor aansoek gedoen word
Gastehuis Dranklisensie
Soort drank wat verkoop sal word
Alle soorte
Naam waaronder besigheid voortgesit sal word en volledige adres van die perseel
Viking Sisters Guesthouse, Erf 676, Nieshoutstraat 16, Kathu
Ekstra fasiliteit waar verkoop kan word (artikel 4(5)(a) en (b)
Artikel 4(5)(a)

4 SKAAR Andrag ploeg R6 000, 2 Skaar Nardi ploeg R4 500, Kapper R3 500, Skotteleg R6 000, Kunsmisstrooier R2 900, Sementmenger R3 500, 7 Ton Sleepwa R9 500, 10 Ton sleepwa R15 000 Kontaknommer: 082 472 2814

41914/25/05

2000 Renault Clio 1.4 Fuel Saver 137 400 km 17" Mags R45 000 neg. 072 906 6147

41919/25/05

3 PANEEL gasverwarmers. Bauer vir slegs R785 by Ultra Gas. Solank voorraad hou. Ook ander gas verwarmers. Tel 054 331 0105

41912/01/06

TE KOOP. 50 Dorper ooilammers @ R850 elk. Goeie kwaliteit. Skakel 079 886 2117

ac/25/05

BACHELORS woonstel te huur. R1 500 p.m. 084 400 6255

ac/25/05

ANNEXURE D2

On-site Notices

Photo A: On-site notice placed on the boundary fence at the Currieskamp waste disposal site on 17 May 2012.

Photo B: Close-up of notice.

ANNEXURE D3

List of Interested and Affected Parties

LIST OF INTERESTED AND AFFECTED PARTIES

1. **Kai !Garib Municipality: Ward Councillor**
   Private Bag X6
   KAKAMAS
   8870
   Tel: 054 4616400

2. **Department of Water Affairs**
   Private Bag X5912
   UPINGTON
   8800
   Tel: 054 3385800