

**PROPOSED LOW COST HOUSING DEVELOPMENT,
PORTION OF REMAINDER ERF 666, KEIMOES
(SITE B), NORTHERN CAPE**

DE&NC Ref No.: NC/EIA/SIY/KAI!/KEI2/2012



DRAFT BASIC ASSESSMENT REPORT

May 2013

**PROPOSED LOW COST HOUSING
DEVELOPMENT, on PORTION OF REMAINDER
Erf 666, KEIMOES (SITE B)
(Northern Cape)**

DE&NC Ref No.: NC/EIA/SIY/KAI//KEI2/2012

PREPARED FOR:

Kai! Garib Municipality

**Private Bag X6
Kakamas
8870
Tel: 054 461 6700**

PREPARED BY:

EnviroAfrica

**P.O. Box 5367
Helderberg
7135
Tel: 021 – 851 1616
Fax: 086 – 512 0154**

EXECUTIVE SUMMARY

Introduction

It is proposed that Portion of Remainder Erf 666, Keimoes be rezoned and subdivided for the development of serviced low cost housing (approximately 1220 erven for residential purposes), including associated infrastructure. The proposed site will be approximately 110ha)

It is required due to the demand for serviced low cost housing and to provide housing for residents of Keimoes affected and displaced by flooding of the Orange River.

Currently Portion of Remainder Erf 666, Keimoes (767.0527ha) is zoned Agricultural Zone I and Undetermined.

The site is located to the north east of Keimoes. The site coordinates are as follows: S 28° 41' 28.17", E 20° 57' 37.95".

Environmental Requirements

The National Environmental Management Act (NEMA, Act 107 of 1998), as amended, makes provision for the identification and assessment of activities that are potentially detrimental to the environment and which require authorisation from the competent authority based on the findings of an Environmental Assessment. NEMA is a national act, which is enforced by the Department of Environmental Affairs (DEA). In the Northern Cape, these powers are delegated to the Department of Environmental & Nature Conservation (DE&NC). According to the regulations of Section 24(5) of NEMA, authorisation is required for the following:

Government Notice R544 listed activities (Listing Notice 1):

11: The construction of:

- (i) Canals;
- (ii) Channels;
- (iii) Bridges;
- (iv) Dams;
- (v) Weirs;
- (vi) Bulk storm water outlet structures;
- (vii) Marinas;
- (viii) Jetties exceeding 50 square meters in size;
- (ix) Slipways exceeding 50 square meters in size;
- (x) Buildings exceeding 50 square meters in size; or**
- (xi) Infrastructure or structures covering 50 square meters or more;**

Where such construction occurs within a watercourse or within 32 meters of a watercourse, measured from the edge of a watercourse, excluding where such construction will occur behind the development setback line.

18: The infilling or depositing of any material of more the 5 cubic meters into, or the dredging, excavation, removal or moving of soil, sand, shells, shell grit, pebbles or rock from

- (i) a watercourse;**
- (ii) the sea;
- (iii) the seashore;

the littoral active zone, an estuary or a distance of 100 meters inland of the high-water mark of the sea or an estuary, whichever distance is greater

22: The construction of a road, outside urban areas,

- (i) With a reserve wider than 13,5 meters or,
- (ii) Where no reserve exists where the road is wider than 8 meters, or
- (iii) For which an environmental authorization was obtained for the route determination in terms of activity 5 in Government Notice 387 of 2006 or activity 18 in Notice 545 of 2010.

Government Notice R545 listed activities (Listing Notice 2):

- 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 hectares or more:

Government Notice R546 listed activities (Listing Notice 3):

- 14: The clearance of an area of 5 hectares or more of vegetation where 75% or more of the vegetative cover constitutes indigenous vegetation,

In the Northern Cape:

- All areas outside urban areas.

Please note that although this Application includes activities listed under Listing Notice 2, an application to switch from a Scoping and Environmental Impact Reporting process to a basic assessment process has been submitted to the Department of Environment and Nature Conservation (Northern Cape), and was accepted on 16 April 2013.

Site Description

The study area is situated on communal grazing land, with no development or agricultural practices (apart from some grazing) observed. The Keimoes waste disposal site is located to the northeast of the proposed site, while the cemetery is located within the study area. Sand mining activities as well as illegal dumping was observed in the south-western portion of the property. Natural vegetation forms a sparse cover over the entire area of the study area. Two non-perennial streams cross the property from north to south, one of which is located within the proposed development footprint. A number of smaller drainage lines are also present draining the property into the larger seasonal streams.

The proposed development site is fairly flat and slopes gently to the south. The western portion has been heavily scraped and most of the site is severely degraded. There are large diggings, pits and spoil dumps alongside Blesbok Avenue. There are a number of gravel roads and informal footpaths that intersect the property and pedestrian traffic is extensive. There is a large (illegal) dump site alongside Protea Avenue and a large formal cemetery in the north east which is currently being expanded. Several drainage channels intersect the site in the northwest.

Need and Desirability

According to the Town Planning Motivational report (**Appendix D1**), due to the growth in the agricultural sector, in particular export grapes and raisins in the area, there has been significant economic growth

These mentioned aspects have not only had an economic impact, but has also contributed to population increases in the municipality, be it from immigration or natural growth. There is therefore a need for housing opportunities in the Keimoes area.

According to the Business Plan (**Appendix D2**), the socio-economic profile of the Keimoes community and of those who were affected by the flood, is a definite indication of the need that occurs for low cost/affordable housing.

Apart from the 700 disaster struck households waiting for RDP standard (low cost) housing in Keimoes, there is a backlog of an additional 1600 households also requiring low cost housing. The total of affordable houses required is therefore 2300 houses. This development will provide for 1220 of these houses.

Due to major flooding in 2011, many people were left homeless. Subsistence farmers, who produced agricultural crops in these areas, also lost their harvest.

EnviroAfrica

Some of these disaster-struck people moved to higher areas, but are still without any services such as water, sanitation or electricity. These living conditions form the root cause of other problems such as malnutrition, diseases due to pollution, limited access to educational and medical facilities.

During flood conditions, the road infrastructure also becomes inaccessible, making it difficult for workers to travel to their work place and back. Not only does this have a negative effect on the main income of the worker, but it also has a ripple effect on the production sector, whether it be the local or export market.

Due to this, the municipality has indicated that there is a pressing need for houses, especially low cost housing, as well as serviced plots, within the Kai !Garib Municipal Area. The proposed development will allow for the development of 1220 formalised residential erven, to not only accommodate those affected by the flood, but also to meet some of the housing backlog.

This project will form part of the Kai !Garib Municipality's flood disaster rescue program, and will be executed according to the 2007-2012 Integrated Development Plan's Housing/Town Planning and Land Use Management Development Strategies as well as the Housing/Town Planning & Land Use Management IDP projects.

Conclusion

The activity will provide much needed additional housing opportunities, which is a local, provincial and national need, to accommodate those affected by flooding of the Orange River, and to meet the housing back log in the municipality.

The activity will provide much needed additional housing opportunities as well as providing job opportunities during the construction phase of the development.

According to the Biodiversity Assessment (**Appendix D3**), the vegetation type on site is Bushmanland Arid Grassland and is considered "Least threatened", and has been mostly transformed due to human activities. the vegetation is of medium conservation priority, but of very low environmental significance and does not fall within a proposed conservation area. The impact on the natural vegetation on site would likely be only low, probable and localised.

According to Heritage Impact Assessment (**Appendix D4**), no significant impacts to pre-colonial archaeological material that will need to be mitigated prior to proposed development activities. Indications are that in terms of the archaeological heritage, the proposed activity is viable.

Considering all the information, it is not envisaged that this proposed development will have a significant negative impact on the environment, and the socio-economic benefits are expected to outweigh any negative impacts.

It is therefore recommended that this application be authorised with the necessary conditions of approval as described throughout this BAR.



BASIC ASSESSMENT REPORT

**PROPOSED LOW COST HOUSING
DEVELOPMENT, KEIMOEES (KEIMOEES SITE B)
NORTHERN CAPE**

Project applicant:	Kai !Garib Municipality		
Business reg. no./ID. no.:	N/A		
Contact person:	Patrick Wells		
Postal address:	Private Bag X6, Kakamas, 8870		
Telephone:	054 461 6700	Cell:	
E-mail:	wellsp@kaigarib.gov.za	Fax:	054 461 6401

Prepared by:

Environmental Assessment Practitioner/Firm:	EnviroAfrica CC		
Business reg. no./ID. no.:	CK 97 46008/23		
Contact person:	Clinton Geyser/Bernard de Witt		
Postal address:	P.O. Box. 5367, Helderberg, 7135		
Telephone:	021 851 1616	Cell:	
E-mail:	Clinton@enviroafrica.co.za	Fax:	086 512 0154

(For official use only)

File Reference Number:

Application Number:

Date Received:

BASIC ASSESSMENT REPORT

Basic Assessment Report in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended, and the Environmental Impact Assessment Regulations, 2010.

Kindly note that:

1. This **basic assessment report** is a standard report that may be required by a competent authority in terms of the EIA Regulations, 2010 and is meant to streamline applications. Please make sure that it is the report used by the particular competent authority for the activity that is being applied for.
2. The report must be typed within the spaces provided in the form. The size of the spaces provided are not necessarily indicative of the amount of information to be provided. The report is in the form of a table that can extend itself as each space is filled with typing.
3. Where applicable **tick** the boxes that are applicable or **black out** the boxes that are not applicable in the report.
4. An incomplete report may be returned to the applicant for revision.
5. The use of "not applicable" in the report must be done with circumspection because if it is used in respect of material information that is required by the competent authority for assessing the application, it may result in the rejection of the application as provided for in the regulations.
6. This report must be handed in at offices of the relevant competent authority as determined by each authority.
7. No faxed or e-mailed reports will be accepted.
8. The report must be compiled by an independent environmental assessment practitioner.
9. Unless protected by law, all information in the report will become public information on receipt by the competent authority. Any interested and affected party should be provided with the information contained in this report on request, during any stage of the application process.
10. A competent authority may require that for specified types of activities in defined situations only parts of this report need to be completed.

SECTION A: ACTIVITY INFORMATION

Has a specialist been consulted to assist with the completion of this section?
 If YES, please complete form XX for each specialist thus appointed:
 Any specialist reports must be contained in Appendix D.

YES

1. ACTIVITY DESCRIPTION

Describe the activity, which is being applied for, in detail:

The National Environmental Management Act (NEMA, Act 107 of 1998), as amended, makes provision for the identification and assessment of activities that are potentially detrimental to the environment and which require authorisation from the competent authority based on the findings of an Environmental Assessment. NEMA is a national act, which is enforced by the Department of Environmental Affairs (DEA). In the Northern Cape, these powers are delegated to the Department of Environmental & Nature Conservation (DE&NC). According to the regulations of Section 24(5) of NEMA, authorisation is required for the following:

Government Notice R544 listed activities (Listing Notice 1):

11: The construction of:

- (i) Canals;
- (ii) Channels;
- (iii) Bridges;
- (iv) Dams;
- (v) Weirs;
- (vi) Bulk storm water outlet structures;
- (vii) Marinas;
- (viii) Jetties exceeding 50 square meters in size;
- (ix) Slipways exceeding 50 square meters in size;
- (x) **Buildings exceeding 50 square meters in size; or**
- (xi) **Infrastructure or structures covering 50 square meters or more;**

Where such construction occurs within a watercourse or within 32 meters of a watercourse, measured from the edge of a watercourse, excluding where such construction will occur behind the development setback line.

18: The infilling or depositing of any material of more the 5 cubic meters into, or the dredging, excavation, removal or moving of soil, sand, shells, shell grit, pebbles or rock from

- (i) **a watercourse;**
- (ii) the sea;
- (iii) the seashore;

the littoral active zone, an estuary or a distance of 100 meters inland of the high-water mark of the sea or an estuary, whichever distance is greater

22: The construction of a road, outside urban areas,

- (i) With a reserve wider than 13,5 meters or,
- (ii) Where no reserve exists where the road is wider than 8 meters, or
- (iii) For which an environmental authorization was obtained for the route determination in terms of activity 5 in Government Notice 387 of 2006 or activity 18 in Notice 545 of 2010.

Government Notice R545 listed activities (Listing Notice 2):

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 hectares or more:

Government Notice [R546](#) listed activities (Listing Notice 3):

14: The clearance of an area of 5 hectares or more of vegetation where 75% or more of the vegetative cover constitutes indigenous vegetation,

In the Northern Cape:

- All areas outside urban areas.

Please note that although this Application includes activities listed under Listing Notice 2, an application to switch from a Scoping and Environmental Impact Reporting process to a basic assessment process has been submitted to the Department of Environment and Nature Conservation (Northern Cape).

Project description

It is proposed that Portion of Remainder Erf 666, Keimoes be rezoned and subdivided for the development of serviced low cost housing (approximately 1220 erven for residential purposes), including associated infrastructure. The proposed site will be approximately 110ha)

It is required due to the demand for serviced low cost housing and to provide housing for residents of Keimoes affected and displaced by flooding of the Orange River.

Currently Portion of Remainder Erf 666, Keimoes (767.0527ha) is zoned Agricultural Zone 1 and Undetermined.

The site is located to the north east of Keimoes. The site coordinates are as follows: S 28° 41' 28.17", E 20° 57' 37.95". Please refer to Figure 1 and 2 below.



Figure 1: Aerial view of the site. The proposed site is indicated by the red polygon.



Figure 2: Aerial view of the site. The proposed site is indicated by the red polygon.

The proposed development will be over 110ha and 1248 new development stands are proposed, 1220 of which are single residential erven, in response to the growing housing need in the municipality and to accommodate those affected by flooding along the Orange River.

The associated infrastructure is as follows:

- **Water**

The provision of the bulk water infrastructure to the proposed development will be the responsibility of the Kai !Garib Municipality.

The bulk services needs to be upgraded to accommodate the existing demand as well as future extensions (2300 stands in total).

- **Road network**

The proposed development will link into existing street network, to the north-west and to the south of the proposed site. An extensive new internal road network will be planned to provide access to individual erven.

- **Sewerage**

The Keimoes area already has existing sewerage system provided by the KailGarib Municipality. The municipality will be responsible for the provision of the bulk infrastructure to link the new development with the existing system. The bulk services needs to be upgraded to accommodate the existing demand as well as future extensions (2300 stands in total).

- **Stormwater**

Town lay-out will be done in such a way that storm water will still be able to follow its natural course, without posing a risk to any of the houses or other infrastructure. Culverts or storm water drifts will be designed for areas where water needs to cross the road. Local storm water run-off will be managed on the gravel streets.

- **Electricity**

The provision of electricity to the proposed development will be the responsibility of the municipality. The existing electrical distribution will be expanded to accommodate the new development, and will be the responsibility of the municipality

The proposed development includes the following land uses:

- **Residential Zone I**

The primary use will be for dwelling houses (detached building containing only one dwelling unit). One thousand two hundred and twenty (1220) land units created will be given this zoning with the objective being residential opportunity in Keimoes. This zoning will cover 50.1ha of the study area with each unit having an average size of 414m². This will constitute 46.1% of the total development.

- **Business Zone I**

The primary use will be for business premises (a site or building or structure on or in which business is done and includes shops, offices, financial institutions or restaurants or sites, buildings or structures for similar uses, but does not include places of assembly or entertainment, institutions, service stations, public garages, industries, noxious trades, bottle-stores or supermarkets). One (1) land unit created will be given this zoning with the objective being business opportunity in Keimoes. This zoning will cover 2.3ha of the study area constituting 2.1% of the total development.

- **Business Zone II**

The primary use will be for retail outlets premises (a site or building or structure on or in which business is done and includes shops, small offices, nursery, flats above a general dealer. One Five (5) land unit created will be given this zoning with the objective being business opportunity in Keimoes. This zoning will cover 0.5ha of the study area constituting 0.5% of the total development.

- **Institutional Zone I**

The primary use will be a place of instruction (a crèche, pre-primary school, primary school, high school, college, technikon, university, research centre, convent, public library, public art gallery, or museum or some other centre which is utilised for instruction purposes and includes a hostel appertaining thereto, but does not include a building or land unit which is mainly used as certified reformatory or industrial school or as an institution). Three (3) unit of this zoning will be provided for within the proposed development for the development of crèches. This zoning will cover 0.6ha of the study area constituting 0.5% of the total development.

- **Institutional Zone II**

The primary use is a House of Worship (a church, synagogue, mosque, temple, chapel or any other place for practising religion and includes any building in connection therewith, but does not include a funeral parlour with related chapel. Seven (7) units of this zoning (churches) will be provided for within the proposed development with an average size of 2618m² per erf. The total area will be 1.6ha, representing 1.5% of the total development.

- **Open Space Zone I**

The primary use is Public open space (land which is under or will be under the ownership of the local authority, which is not leased nor will be leased on a long-term basis, and which is utilised or will be utilised as an open space or a park, garden, picnic area, playground or

square and includes a public space. Ten (10) unit of this zoning (parks) will be provided for within the proposed development with an average size of 5799m² per erf. The total area will be 6.9ha, representing 6.3% of the total development.

- **Open Space Zone II**

The primary use is Private open space. The primary use is for sport, playgrounds, rest and relaxation, ornamental gardens. One (1) unit of this zoning (parks) will be provided for within the proposed development. The total area will be 18.7ha, representing 17.2% of the total development.

- **Transport Zone II**

Primary use will be Public Road (any road or street for public use or any land intended for such purposes). One (1) unit of this zoning will be provided for within the proposed development, constituting the internal road network of the proposed development. The unit will be 27.8ha in size, representing 25.5% of the total development. The internal road network of the proposed development may be seen in the Detail Layout.

- **Authority Zone I**

Primary use will be for the local authority (the primary use is for motor testing stations, fire station, cemetery or for services such as power stations, waste water treatment works, reservoirs, substations, or solid waste management facilities). The unit will be 0.3ha in size, representing 0.3% of the total development.

Please refer to **Appendix A1** for the Site Development Plans.

2. FEASIBLE AND REASONABLE ALTERNATIVES

"alternatives", in relation to a proposed activity, means different means of meeting the general purpose and requirements of the activity, which may include alternatives to—

- (a) the property on which or location where it is proposed to undertake the activity;
- (b) the type of activity to be undertaken;
- (c) the design or layout of the activity;
- (d) the technology to be used in the activity;
- (e) the operational aspects of the activity; and
- (f) the option of not implementing the activity.

Describe alternatives that are considered in this application. Alternatives should include a consideration of all possible means by which the purpose and need of the proposed activity could be accomplished in the specific instance taking account of the interest of the applicant in the activity. The no-go alternative must in all cases be included in the assessment phase as the baseline against which the impacts of the other alternatives are assessed. The determination of whether site or activity (including different processes etc.) or both is appropriate needs to be informed by the specific circumstances of the activity and its environment. After receipt of this report the competent authority may also request the applicant to assess additional alternatives that could possibly accomplish the purpose and need of the proposed activity if it is clear that realistic alternatives have not been considered to a reasonable extent.

Paragraphs 3 – 13 below should be completed for each alternative. Please note that the only feasible and reasonable alternative that has been identified and assessed is a design/layout alternative. The proposed development layout of the preferred and alternative layout will generally be over the same site, and will therefore have similar impacts (unless otherwise specified).

No other site alternatives were considered feasible, due to the availability of suitable land adjacent to the existing residential component of Keimoes. The site was the only site deemed feasible, as it will integrate into the existing town and into the existing infrastructure.

The Paragraphs 3 - 13 will therefore be the same for each of the layout alternatives described below (unless otherwise specified).

Layout alternatives:

- Alternative 1 (preferred layout alternative) (Appendix A1)

The proposed development will be over 110ha and 1248 new development stands are proposed, 1220 of which are single residential erven. A Business Zone I and five Business Zone II, three Institutional Zone I and seven Institutional Zone II, one Transport Zone II (roads), ten Open Space Zone I and one Open Space Zone II and one Authority Zone I are included.

The layout has taken the existing informal housing into consideration, as well as the topography and existing informal roads into account.

- Alternative 2 (layout alternative) (Appendix A2)

The proposed development will be over 110ha and 1248 new development stands are proposed, 1234 of which are single residential erven. This also includes four Institutional Zones II (churches), two stands for Transport Zone (roads) and five for Public Open Space.

This layout does offers less residential opportunities, and no allowance has been made for Business Zone II, no Authority Zones and no Institutional Zone I (schools) which is considered as a vital component to the development.

This layout is very different to the preferred layout and was also not preferred as there was insufficient allocation of Public open Space.

- Alternative 3 (layout alternative) (Appendix A3)

The proposed development will be over 110ha and 1227 new development stands are proposed, 1202 of which are single residential erven. This also includes one Business Zone I, three Business Zone II, two Institutional Zone I, six Institutional Zones II (churches), ten for Public Open Space, one for Private Open Space, one Authority Zone I and two stands for Transport Zone (roads).

This layout also offers less residential opportunities, has less Business Zones II, less Institutional Zone I, and less Institutional Zone II. It is therefore not preferred over the Alternative 1 (preferred layout).

Alternative 1 is the preferred layout as it provides a more efficient, and more integrated layout, as it not only provides 1220 residential opportunities, but also provides more opportunities for business (Business Zone I and II, Places of Worship, Public Open Space and roads, it also provides more sites for a school/crèche.

The layout better meets the basic principles as set out in Chapter 1 of the Northern Cape, Act on Development and Planning, and the Development Facilitation Act (Act 67 of 1995), namely

- This application promotes the integration of social, economic, institutional and physical aspects of land development
- With the application the availability of residential and employment opportunities close or integrated is promoted
- this application will utilize the existing resources within the area better in terms of bulk

BASIC ASSESSMENT REPORT

- infrastructure, roads and transport and thereby optimize social facilities
- this application promotes a diverse combination of land uses on an individual level
- this application discourages the phenomenon of urban sprawl and contribute to the development of more compact towns
- the application to optimize and guide the use of existing infrastructure and the needs.

3. ACTIVITY POSITION

Indicate the position of the activity using the latitude and longitude of the centre point of the site for each alternative site. The co-ordinates should be in degrees and decimal minutes. The minutes should have at least three decimals to ensure adequate accuracy. The projection that must be used in all cases is the WGS84 spheroid in a national or local projection.

List alternative sites if applicable. *N/A*

Alternative:

Alternative S1¹ (preferred or only site alternative)

Alternative S2 (if any)

Alternative S3 (if any)

In the case of linear activities:

Alternative:

Alternative S1 (preferred or only route alternative)

- Starting point of the activity
- Middle point of the activity
- End point of the activity

Alternative S2 (if any)

- Starting point of the activity
- Middle point of the activity
- End point of the activity

Alternative S3 (if any)

- Starting point of the activity
- Middle point of the activity
- End point of the activity

Latitude (S):

Longitude (E):

28°	41.458'	20°	57.634'
°	'	°	'

Latitude (S):

Longitude (E):

°	'	°	'

°	'	°	'

°	'	°	'

For route alternatives that are longer than 500m, please provide an addendum with co-ordinates taken every 250 meters along the route for each alternative alignment.

4. PHYSICAL SIZE OF THE ACTIVITY

Indicate the physical size of the preferred activity/technology as well as alternative activities/technologies (footprints):

Alternative:

Alternative A1² (preferred activity alternative)

Alternative A2 (if any)

Alternative A3 (if any)

or, for linear activities:

Alternative:

Alternative A1 (preferred activity alternative)

Alternative A2 (if any)

Alternative A3 (if any)

Size of the activity:

1100000m² (110ha)

m²

Length of the activity:

m

Indicate the size of the alternative sites or servitudes (within which the above footprints will occur):

Alternative:

Alternative A1 (preferred activity alternative)

Alternative A2 (if any)

Alternative A3 (if any)

Size of the site/servitude:

m²

m²

m²

¹ "Alternative S.." refer to site alternatives.

² "Alternative A.." refer to activity, process, technology or other alternatives.

BASIC ASSESSMENT REPORT

5. SITE ACCESS

Does ready access to the site exist?
If NO, what is the distance over which a new access road will be built

YES	

Describe the type of access road planned:

The site will have direct access from D. Olivier Way in the north, Margaret Street and Loop Street to the south, and Lily Street and C.J. Hollenbach Street to the west.

Include the position of the access road on the site plan and required map, as well as an indication of the road in relation to the site.

6. SITE OR ROUTE PLAN

A detailed site or route plan(s) must be prepared for each alternative site or alternative activity. It must be attached as Appendix A to this document.

The site or route plans must indicate the following:

- 6.1 the scale of the plan which must be at least a scale of 1:500;
- 6.2 the property boundaries and numbers of all the properties within 50 metres of the site;
- 6.3 the current land use as well as the land use zoning of each of the properties adjoining the site or sites;
- 6.4 the exact position of each element of the application as well as any other structures on the site;
- 6.5 the position of services, including electricity supply cables (indicate above or underground), water supply pipelines, boreholes, street lights, sewage pipelines, storm water infrastructure and telecommunication infrastructure;
- 6.6 all trees and shrubs taller than 1.8 metres;
- 6.7 walls and fencing including details of the height and construction material;
- 6.8 servitudes indicating the purpose of the servitude;
- 6.9 sensitive environmental elements within 100 metres of the site or sites including (but not limited thereto):
 - rivers;
 - the 1:100 year flood line (where available or where it is required by DWA);
 - ridges;
 - cultural and historical features;
 - areas with indigenous vegetation (even if it is degraded or invested with alien species);
- 6.9 for gentle slopes the 1 metre contour intervals must be indicated on the plan and whenever the slope of the site exceeds 1:10, the 500mm contours must be indicated on the plan; and
- 6.10 the positions from where photographs of the site were taken.

7. SITE PHOTOGRAPHS

Colour photographs from the centre of the site must be taken in at least the eight major compass directions with a description of each photograph. Photographs must be attached under Appendix B to this form. It must be supplemented with additional photographs of relevant features on the site, if applicable.

8. FACILITY ILLUSTRATION

A detailed illustration of the activity must be provided at a scale of 1:200 as Appendix C for activities that include structures. The illustrations must be to scale and must represent a realistic image of the planned activity. The illustration must give a representative view of the activity.

9. ACTIVITY MOTIVATION

9(a) Socio-economic value of the activity

What is the expected capital value of the activity on completion?

What is the expected yearly income that will be generated by or as a result of the activity?

Will the activity contribute to service infrastructure?

Is the activity a public amenity?

How many new employment opportunities will be created in the development phase of the activity?

What is the expected value of the employment opportunities during the development phase?

What percentage of this will accrue to previously disadvantaged individuals?

Approximately million	R96
Unknown at this stage. Municipal rates and taxes	
YES	
YES	
± 150	
Unknown at this stage	
N/A	

BASIC ASSESSMENT REPORT

How many permanent new employment opportunities will be created during the operational phase of the activity?

The residential development will not create any direct employment opportunities. It might create in-direct employment opportunities e.g maintenance to houses, gardeners, domestic workers etc.

What is the expected current value of the employment opportunities during the first 10 years?

N/A

What percentage of this will accrue to previously disadvantaged individuals?

N/A

9(b) Need and desirability of the activity

Motivate and explain the need and desirability of the activity (including demand for the activity):

According to the Town Planning Motivational report (**Appendix D1**), due to the growth in the agricultural sector, in particular export grapes and raisins in the area, there has been significant economic growth

These mentioned aspects have not only had an economic impact, but has also contributed to population increases in the municipality, be it from immigration or natural growth. There is therefore a need for housing opportunities in the Keimoes area.

According to the Business Plan (**Appendix D2**), the socio-economic profile of the Keimoes community and of those who were affected by the flood, is a definite indication of the need that occurs for low cost/affordable housing.

Apart from the 700 disaster struck households waiting for RDP standard (low cost) housing in Keimoes, there is a backlog of an additional 1600 households also requiring low cost housing. The total of affordable houses required is therefore 2300 houses. This development will provide for 1220 of these houses.

Due to major flooding in 2011, many people were left homeless. Subsistence farmers, who produced agricultural crops in these areas, also lost their harvest.

Some of these disaster-struck people moved to higher areas, but are still without any services such as water, sanitation or electricity. These living conditions form the root cause of other problems such as malnutrition, diseases due to pollution, limited access to educational and medical facilities.

During flood conditions, the road infrastructure also becomes inaccessible, making it difficult for workers to travel to their work place and back. Not only does this have a negative effect on the main income of the worker, but it also has a ripple effect on the production sector, whether it be the local or export market.

Due to this, the municipality has indicated that there is a pressing need for houses, especially low cost housing, as well as serviced plots, within the Kai !Garib Municipal Area. The proposed development will allow for the development of 1220 formalised residential erven, to not only accommodate those affected by the flood, but also to meet some of the housing backlog.

This project will form part of the Kai !Garib Municipality's flood disaster rescue program, and will be executed according to the 2007-2012 Integrated Development Plan's Housing/Town Planning and Land Use Management Development Strategies as well as the Housing/Town Planning & Land Use Management IDP projects.

BASIC ASSESSMENT REPORT

Indicate any benefits that the activity will have for society in general:

The activity will provide much needed additional housing opportunities, which is a local, provincial and national need, to accommodate those affected by flooding of the Orange River, and to meet the housing back log in the municipality

Indicate any benefits that the activity will have for the local communities where the activity will be located:

The activity will provide much needed additional housing opportunities as well as providing job opportunities during the construction phase of the development.

DESIRABILITY:			
1.	Does the proposed land use / development fit the surrounding area?	YES	
2.	Does the proposed land use / development conform to the relevant structure plans, SDF and planning visions for the area?	YES	NO
3.	Will the benefits of the proposed land use / development outweigh the negative impacts of it?	YES	
4.	<p>If the answer to any of the questions 1-3 was NO, please provide further motivation / explanation:</p> <p>According to the Town Planning motivational report (Appendix D1), This application meets the basic principles as set out in Chapter 1 of the Northern Cape, Act on Development and Planning, and the Development Facilitation Act (Act 67 of 1995), namely</p> <ul style="list-style-type: none"> - This application promotes the integration of social, economic, institutional and physical aspects of land development - With the application the availability of residential and employment opportunities close or integrated is promoted - this application will utilize the existing resources within the area better in terms of bulk infrastructure, roads and transport and thereby optimize social facilities - this application promotes a diverse combination of land uses on an individual level - this application discourages the phenomenon of urban sprawl and contribute to the development of more compact towns - the application to optimize and guide the use of existing infrastructure and the needs 		
5.	Will the proposed land use / development impact on the sense of place?		NO
6.	Will the proposed land use / development set a precedent?	YES	
7.	Will any person's rights be affected by the proposed land use / development? <i>See below</i>	YES	NO
8.	Will the proposed land use / development compromise the "urban edge"?	YES	
9.	<p>If the answer to any of the question 5-8 was YES, please provide further motivation / explanation.</p> <p>Development and expansion of the town is inevitable as the population grows and the need for housing increases. However, the developers have been carefully as to where expansion of the town occurs, with emphasis on the existing town and infrastructure and consolidation of the town and its resources/services, as well as the environmental aspects, and thus can be seen as setting a precedent for future expansion of Keimoes.</p>		

BASIC ASSESSMENT REPORT

	<p>No person's rights are expected to be negatively affected by the proposed development. The activity is expected to have a general positive impact on the residents of the Keimoes area.</p> <p>The proposed development will lead to the extension of the Urban edge. However, this is considered necessary as there is very little to no opportunities for "infill".</p>
--	--

BENEFITS:		
1.	Will the land use / development have any benefits for society in general?	YES <input checked="" type="checkbox"/>
2.	<p>Explain: The activity will provide much needed additional housing opportunities, which is a local, provincial and national need and by providing job opportunities during the construction phase of the development.</p>	
3.	Will the land use / development have any benefits for the local communities where it will be located?	YES <input checked="" type="checkbox"/>
4.	<p>Explain: The activity will provide much needed additional housing opportunities and by providing job opportunities during the construction phase of the development.</p>	

10. APPLICABLE LEGISLATION, POLICIES AND/OR GUIDELINES

List all legislation, policies and/or guidelines of any sphere of government that are applicable to the application as contemplated in the EIA regulations, if applicable:

Title of legislation, policy or guideline:	Administering authority:	Date:
The National Heritage Resources Act, 1999 (Act 25 of 1999)	SAHRA – Northern Cape	Not yet
Northern Cape Planning and Development Act (Act 7 of 1998); - rezoning and subdivision	Local Municipality	Not yet

11. WASTE, EFFLUENT, EMISSION AND NOISE MANAGEMENT

11(a) Solid waste management

Will the activity produce solid construction waste during the construction/initiation phase?
If yes, what estimated quantity will be produced per month?

YES <input checked="" type="checkbox"/>
Unknown at this stage

How will the construction solid waste be disposed of (describe)?

Solid waste will be disposed of in the municipal waste stream.

Where will the construction solid waste be disposed of (describe)?

General waste will be consolidated on site and removed to the nearest registered landfill site as often as required.

Will the activity produce solid waste during its operational phase?
If yes, what estimated quantity will be produced per month?

YES <input checked="" type="checkbox"/>

How will the solid waste be disposed of (describe)?

Solid waste removal will be disposed of in the municipal waste stream.

Where will the solid waste be disposed if it does not feed into a municipal waste stream (describe)?

BASIC ASSESSMENT REPORT

N/A

If the solid waste (construction or operational phases) will not be disposed of in a registered landfill site or be taken up in a municipal waste stream, then the applicant should consult with the competent authority to determine whether it is necessary to change to an application for scoping and EIA.

Can any part of the solid waste be classified as hazardous in terms of the relevant legislation? YES NO

If yes, inform the competent authority and request a change to an application for scoping and EIA.

Is the activity that is being applied for a solid waste handling or treatment facility? YES NO

If yes, then the applicant should consult with the competent authority to determine whether it is necessary to change to an application for scoping and EIA.

11(b) Liquid effluent

Will the activity produce effluent, other than normal sewage, that will be disposed of in a municipal sewage system?

YES NO

If yes, what estimated quantity will be produced per month?

Approximately
15.5m³ per
household per
month

Will the activity produce any effluent that will be treated and/or disposed of on site?

YES NO

If yes, the applicant should consult with the competent authority to determine whether it is necessary to change to an application for scoping and EIA.

Will the activity produce effluent that will be treated and/or disposed of at another facility?

YES NO

If yes, provide the particulars of the facility:

Facility name:			
Contact person:			
Postal address:			
Postal code:			
Telephone:		Cell:	
E-mail:		Fax:	

Describe the measures that will be taken to ensure the optimal reuse or recycling of waste water, if any:

N/A

11(c) Emissions into the atmosphere

Will the activity release emissions into the atmosphere?

YES NO

If yes, is it controlled by any legislation of any sphere of government? N/A

If yes, the applicant should consult with the competent authority to determine whether it is necessary to change to an application for scoping and EIA.

If no, describe the emissions in terms of type and concentration:

N/A

11(d) Generation of noise

Will the activity generate noise?

YES NO

If yes, is it controlled by any legislation of any sphere of government? N/A

If yes, the applicant should consult with the competent authority to determine whether it is necessary to change to an application for scoping and EIA.

If no, describe the noise in terms of type and level:

N/A

12. WATER USE

Please indicate the source(s) of water that will be used for the activity by ticking the appropriate box(es)

municipal	<input type="checkbox"/> water board	<input type="checkbox"/> groundwater	<input type="checkbox"/> river, stream, dam or lake	<input type="checkbox"/> other	<input type="checkbox"/> the activity will not use water
-----------	--------------------------------------	--------------------------------------	---	--------------------------------	--

If water is to be extracted from groundwater, river, stream, dam, lake or any other natural feature, please indicate the volume that will be extracted per month: N/A

litres
 YES NO

Does the activity require a water use permit from the Department of Water Affairs?

BASIC ASSESSMENT REPORT

If yes, please submit the necessary application to the Department of Water Affairs and attach proof thereof to this application if it has been submitted.

13. ENERGY EFFICIENCY

Describe the design measures, if any, that have been taken to ensure that the activity is energy efficient:

Solar water heating will be considered for all residential houses.

Describe how alternative energy sources have been taken into account or been built into the design of the activity, if any:

N/A

SECTION B : SITE/AREA/PROPERTY DESCRIPTION

Important notes:

- For linear activities (pipelines, etc) as well as activities that cover very large sites, it may be necessary to complete this section for each part of the site that has a significantly different environment. In such cases please complete copies of Section C and indicate the area, which is covered by each copy No. on the Site Plan.

Section C Copy No. (e.g. A):

- Paragraphs 1 - 6 below must be completed for each alternative. **The Paragraphs 1 - 6 will be the same for each of the alternatives described below (unless otherwise specified) as the site is the same.**
- Has a specialist been consulted to assist with the completion of this section? YES

If YES, please complete form XX for each specialist thus appointed:
All specialist reports must be contained in Appendix D.

1. GRADIENT OF THE SITE

Indicate the general gradient of the site.

Alternative S1:

Flat	1:50 – 1:20	4:20 – 1:15	4:15 – 1:10	4:10 – 1:7,5	4:7,5 – 1:5	Steeper than 1:5
------	-------------	-------------	-------------	--------------	-------------	------------------

Alternative S2 (if any):

Flat	1:50 – 1:20	4:20 – 1:15	4:15 – 1:10	4:10 – 1:7,5	4:7,5 – 1:5	Steeper than 1:5
------	-------------	-------------	-------------	--------------	-------------	------------------

Alternative S3 (if any):

Flat	1:50 – 1:20	4:20 – 1:15	4:15 – 1:10	4:10 – 1:7,5	4:7,5 – 1:5	Steeper than 1:5
------	-------------	-------------	-------------	--------------	-------------	------------------

2. LOCATION IN LANDSCAPE

Indicate the landform(s) that best describes the site:

- 2.1 Ridgeline
- 2.2 Plateau
- 2.3 Side slope of hill/mountain
- 2.4 Closed valley
- 2.5 Open valley
- 2.6 Plain
- 2.7 Undulating plain / low hills -
- 2.8 Dune
- 2.9 Seafront

3. GROUNDWATER, SOIL AND GEOLOGICAL STABILITY OF THE SITE

Is the site(s) located on any of the following (tick the appropriate boxes)?

	Alternative S1:	Alternative S2 (if any):	Alternative S3 (if any):
Shallow water table (less than 1.5m deep)	<input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO
Dolomite, sinkhole or doline areas	<input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO
Seasonally wet soils (often close to water bodies)	<input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO
Unstable rocky slopes or steep slopes with loose soil	<input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO
Dispersive soils (soils that dissolve in water)	<input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO
Soils with high clay content (clay fraction more than 40%)	<input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO

BASIC ASSESSMENT REPORT

Any other unstable soil or geological feature		NO	YES	NO	YES	NO
		NO	YES	NO	YES	NO
An area sensitive to erosion						

If you are unsure about any of the above or if you are concerned that any of the above aspects may be an issue of concern in the application, an appropriate specialist should be appointed to assist in the completion of this section. (Information in respect of the above will often be available as part of the project information or at the planning sections of local authorities. Where it exists, the 1:50 000 scale Regional Geotechnical Maps prepared by the Council for Geo Science may also be consulted).

4. GROUNDCOVER

Indicate the types of groundcover present on the site:

- 4.1 Natural veld – good condition^E
- 4.2 Natural veld – scattered aliens^E
- 4.3 Natural veld with heavy alien infestation^E
- 4.4 Veld dominated by alien species^E
- 4.5 Gardens
- 4.6 Sport field
- 4.7 Cultivated land
- 4.8 Paved surface
- 4.9 Building or other structure
- 4.10 Bare soil

According to the Biodiversity Assessment (**Appendix D3**), the study area is situated on communal grazing land, with no development or agricultural practices (apart from some grazing) observed. The Keimoes waste disposal site is located to the northeast of the proposed site, while the cemetery is located within the study area. Sand mining activities as well as illegal dumping were observed in the south-western portion of the property. Natural vegetation forms a sparse cover over the entire area of the study area. Two non-perennial streams cross the property from north to south, one of which is located within the proposed development footprint. A number of smaller drainage lines are also present draining the property into the larger seasonal streams. Please refer to Figure 4 of the Biodiversity Assessment (**Appendix D3**).

According to the Archaeological Assessment (**Appendix D4**), the proposed development site is fairly flat and slopes gently to the south. The western portion has been heavily scraped and most of the site is severely degraded. There are large diggings, pits and spoil dumps alongside Blesbok Avenue. There are a number of gravel roads and informal footpaths that intersect the property and pedestrian traffic is extensive. There is a large (illegal) dump site alongside Protea Avenue and a large formal cemetery in the north east which is currently being expanded. Several drainage channels intersect the site in the northwest. Please refer to Figure 3 of Archaeological Assessment (**Appendix D4**).



Figure 4: General panoramic view of the site



Figure 5: General view of the site



Figure 5: View of rocky outcrop to the east of the site



Figure 6: View of illegal dump site to the west of the site



Figure 7: View of one of the dry drainage lines to the east of the site



Figure 8: View of the informal dirt road through the centre of the site and illegal dumping

The location of all identified rare or endangered species or other elements should be accurately indicated on the site plan(s).

Please refer to Table 2 of the Biodiversity Assessment (**Appendix D3**).

Natural veld — good condition ^E	Natural veld with scattered aliens ^E	Natural veld with heavy alien infestation ^E	Veld dominated by alien species ^E	Gardens
Sport field	Cultivated land	Paved surface	Building or other structure	Bare soil

If any of the boxes marked with an “^E” is ticked, please consult an appropriate specialist to assist in the completion of this section if the environmental assessment practitioner doesn’t have the necessary expertise.

According to the Biodiversity Assessment (**Appendix D3**), in accordance with the 2006 Vegetation map of South Africa, Lesotho and Swaziland (Mucina & Rutherford, 2006) (see figure 3 below) only one broad vegetation type is expected in the proposed area and its immediate vicinity, namely Bushmanland Arid Grassland. This vegetation type was classified as “Least Threatened” during the 2004 National Spatial Biodiversity Assessment (NSBA). More than 99% of this vegetation still remains in its natural state, but at present only 4% is formally protected (Augrabies Falls National Park) throughout South Africa. Recently the *National list of ecosystems that are threatened and in need of protection* (GN 1002, December 2011), was promulgated in terms of the National Environmental Management Biodiversity Act (NEM: BA), Act 10 of 2004. According to this National list, Bushmanland Arid Grassland, remains classified as Least Threatened.

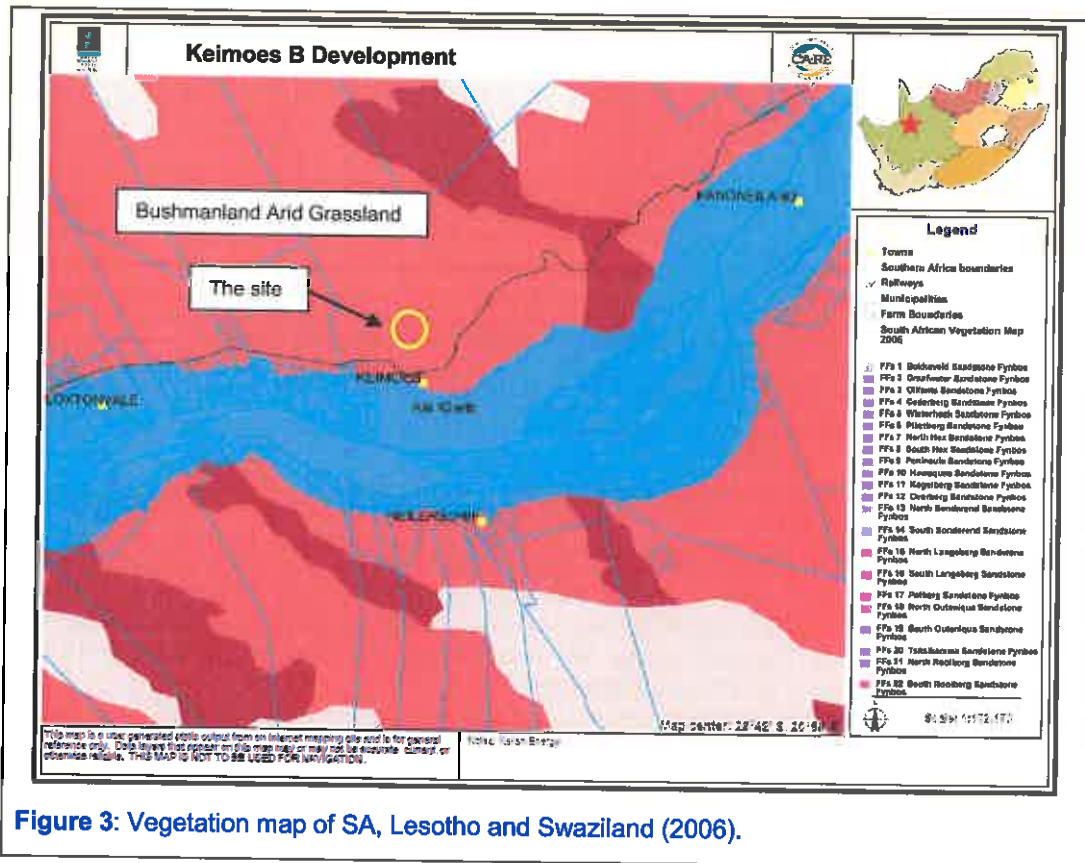


Figure 3: Vegetation map of SA, Lesotho and Swaziland (2006).

5. LAND USE CHARACTER OF SURROUNDING AREA

Indicate land uses and/or prominent features that does currently occur within a 500m radius of the site and give description of how this influences the application or may be impacted upon by the application:

- 5.1 Natural area
- 5.2 Low density residential
- 5.3 Medium density residential
- 5.4 High density residential
- 5.5 Informal residential^A
- 5.6 Retail commercial & warehousing
- 5.7 Light industrial
- 5.8 Medium industrial^{AN}
- 5.9 Heavy industrial^{AN}
- 5.10 Power station
- 5.11 Office/consulting room
- 5.12 Military or police base/station/compound
- 5.13 Spoil heap or slimes dam^A
- 5.14 Quarry, sand or borrow pit
- 5.15 Dam or reservoir
- 5.16 Hospital/medical centre
- 5.17 School
- 5.18 Tertiary education facility
- 5.19 Church
- 5.20 Old age home
- 5.21 Sewage treatment plant^A
- 5.22 Train station or shunting yard^N
- 5.23 Railway line^N
- 5.24 Major road (4 lanes or more)^N
- 5.25 Airport^N
- 5.26 Harbour
- 5.27 Sport facilities
- 5.28 Golf course
- 5.29 Polo fields
- 5.30 Filling station^N

BASIC ASSESSMENT REPORT

- 5.31 Landfill or waste treatment site
- 5.32 Plantation
- 5.33 Agriculture –
- 5.34 River, stream or wetland –
- 5.35 Nature conservation area
- 5.36 Mountain, koppie or ridge
- 5.37 Museum
- 5.38 Historical building
- 5.39 Protected Area
- 5.40 Graveyard
- 5.41 Archaeological site
- 5.42 Other land uses (describe)

Please also refer to Figure 1 for the aerial view of the surrounding land-uses

If any of the boxes marked with an ^{“N”} are ticked, how this impact will / be impacted upon by the proposed activity.

If YES, specify and explain:	N/A
------------------------------	-----

If any of the boxes marked with an ^{“Am”} are ticked, how will this impact / be impacted upon by the proposed activity.

If YES, specify and explain:	<p>The Keimoes oxidation ponds are located approximately 300m north-west from the proposed development. The development will be linked into the Keimoes oxidation pond system. However, the current works will need to be upgraded to accommodate the proposed development.</p>
------------------------------	---

If any of the boxes marked with an ^{“H”} are ticked, how will this impact / be impacted upon by the proposed activity.

If YES, specify and explain:	N/A
------------------------------	-----

6. CULTURAL/HISTORICAL FEATURES

Are there any signs of culturally or historically significant elements, as defined in section 2 of the National Heritage Resources Act, 1999, (Act No. 25 of 1999), including Archaeological or paleontological sites, on or close (within 20m) to the site?

Uncertain

If YES, explain:

Please see below

If uncertain, conduct a specialist investigation by a recognised specialist in the field to establish whether there is such a feature(s) present on or close to the site.

BASIC ASSESSMENT REPORT

Briefly explain the findings of the specialist:

According to Heritage Impact Assessment (**Appendix D4**), ninety-one archaeological occurrences numbering about 154 stone tools were mapped and counted on site. The majority of the tools belong to the LSA, but a well-represented number of MSA flakes and a few blades were also found, including a double-sided retouched pointed flakes.

As archaeological sites are concerned, the occurrences are lacking in context. While the random scatters of tools are relatively rich in quantity, they are poor in terms of information that can be constructed from them. No organic remains such as bone, pottery or ostrich eggshell was found. As a result the remains have been rated as having low (Grade 3C) archaeological significance.

The Heritage Impact Assessment identified no significant impacts to pre-colonial archaeological material that will need to be mitigated prior to proposed development activities. The majority of the tools comprise single, isolated occurrences that occur in a disturbed or degraded context. Very few formal tools were found.

While a relatively large number of stone implements were encountered, the receiving environment is not considered to be a sensitive archaeological landscape.

Indications are that in terms of the archaeological heritage, the proposed activity is viable.

The following recommendations are made:

1. No archaeological mitigation is required.
2. Should any unmarked human burials/remains or ostrich eggshell water flask caches be uncovered during construction activities, these must immediately be reported to the archaeologist (Jonathan Kaplan 082 321 0172), or Ms Katy Smuts at the South African Heritage Resources Agency (021 462 4502). Burials, etc must not be removed or disturbed until inspected by the archaeologist.

Will any building or structure older than 60 years be affected in any way?
Is it necessary to apply for a permit in terms of the National Heritage Resources Act, 1999 (Act 25 of 1999)?

	NO
YES	

If yes, please submit or, make sure that the applicant or a specialist submits the necessary application to SAHRA or the relevant provincial heritage agency and attach proof thereof to this application if such application has been made.

SECTION C: PUBLIC PARTICIPATION

1. ADVERTISEMENT (Please refer to Appendix E2 for proof of Advertisements and Site notices)

The person conducting a public participation process must take into account any guidelines applicable to public participation as contemplated in section 24J of the Act and must give notice to all potential interested and affected parties of the application which is subjected to public participation by—

- (a) fixing a notice board (of a size at least 60cm by 42cm; and must display the required information in lettering and in a format as may be determined by the competent authority) at a place conspicuous to the public at the boundary or on the fence of—
 - (i) the site where the activity to which the application relates is or is to be undertaken; and
 - (ii) any alternative site mentioned in the application;
- (b) giving written notice to—
 - (i) the owner or person in control of that land if the applicant is not the owner or person in control of the land;
 - (ii) the occupiers of the site where the activity is or is to be undertaken or to any alternative site where the activity is to be undertaken;
 - (iii) owners and occupiers of land adjacent to the site where the activity is or is to be undertaken or to any alternative site where the activity is to be undertaken;
 - (iv) the municipal councillor of the ward in which the site or alternative site is situated and any organisation of ratepayers that represent the community in the area;
 - (v) the municipality which has jurisdiction in the area;
 - (vi) any organ of state having jurisdiction in respect of any aspect of the activity; and
 - (vii) any other party as required by the competent authority;
- (c) placing an advertisement in—
 - (i) one local newspaper; or
 - (ii) any official *Gazette* that is published specifically for the purpose of providing public notice of applications or other submissions made in terms of these Regulations;
- (d) placing an advertisement in at least one provincial newspaper or national newspaper, if the activity has or may have an impact that extends beyond the boundaries of the metropolitan or local municipality in which it is or will be undertaken: Provided that this paragraph need not be complied with if an advertisement has been placed in an official *Gazette* referred to in subregulation 54(c)(ii); and
- (e) using reasonable alternative methods, as agreed to by the competent authority, in those instances where a person is desiring of but unable to participate in the process due to—
 - (i) illiteracy;
 - (ii) disability; or
 - (iii) any other disadvantage.

2. CONTENT OF ADVERTISEMENTS AND NOTICES

A notice board, advertisement or notices must:

- (a) indicate the details of the application which is subjected to public participation; and
- (b) state—
 - (i) that the application has been submitted to the competent authority in terms of these Regulations, as the case may be;
 - (ii) whether basic assessment or scoping procedures are being applied to the application, in the case of an application for environmental authorisation;
 - (iii) the nature and location of the activity to which the application relates;
 - (iv) where further information on the application or activity can be obtained; and
 - (v) the manner in which and the person to whom representations in respect of the application may be made.

3. PLACEMENT OF ADVERTISEMENTS AND NOTICES

Where the proposed activity may have impacts that extend beyond the municipal area where it is located, a notice must be placed in at least one provincial newspaper or national newspaper, indicating that an application will be submitted to the competent authority in terms of these regulations, the nature and location of the activity, where further information on the proposed activity can be obtained and the manner in which representations in respect of the application can be made, unless a notice has been placed in any *Gazette* that is published specifically for the purpose of providing notice to the public of applications made in terms of the EIA regulations.

Advertisements and notices must make provision for all alternatives.

BASIC ASSESSMENT REPORT

4. DETERMINATION OF APPROPRIATE MEASURES

The practitioner must ensure that the public participation is adequate and must determine whether a public meeting or any other additional measure is appropriate or not based on the particular nature of each case. Special attention should be given to the involvement of local community structures such as Ward Committees, ratepayers associations and traditional authorities where appropriate. Please note that public concerns that emerge at a later stage that should have been addressed may cause the competent authority to withdraw any authorisation it may have issued if it becomes apparent that the public participation process was inadequate.

5. COMMENTS AND RESPONSE REPORT

The practitioner must record all comments and respond to each comment of the public before the application is submitted. The comments and responses must be captured in a comments and response report as prescribed in the EIA regulations and be attached to this application. The comments and response report must be attached under Appendix E.

6. AUTHORITY PARTICIPATION

Authorities are key interested and affected parties in each application and no decision on any application will be made before the relevant local authority is provided with the opportunity to give input. The planning and the environmental sections of the local authority must be informed of the application at least 30 (thirty) calendar days before the submission of the application.

List of authorities informed:

The following authorities were notified of the application.

- SAHRA Northern Cape
- Northern Cape Department of Agriculture and Land Reform
- Department of Co-operative Governance, Human Settlements and Traditional Affairs
- Department of Environment and Nature Conservation
- Department of Water Affairs – Northern Cape
- Department of Roads and Public Works
- Siyanda District Municipality
- Kai !Garib Local Municipality

Please refer to **Appendix E1** for the I&AP list and proof of notifications.

List of authorities from whom comments have been received:

No comments were received during the initial round of public participation from the authorities.

7. CONSULTATION WITH OTHER STAKEHOLDERS

Note that, for linear activities, or where deviation from the public participation requirements may be appropriate, the person conducting the public participation process may deviate from the requirements of that sub regulation to the extent and in the manner as may be agreed to by the competent authority.

Any stakeholder that has a direct interest in the site or property, such as servitude holders and service providers, should be informed of the application at least 30 (thirty) calendar days before the submission of the application and be provided with the opportunity to comment.

Has any comment been received from stakeholders?

YES

If "YES", briefly describe the feedback below (also attach copies of any correspondence to and from the stakeholders to this application):

No comments were received during the initial Public Participation round

BASIC ASSESSMENT REPORT

SECTION D: IMPACT ASSESSMENT

The assessment of impacts must adhere to the minimum requirements in the EIA Regulations, 2010, and should take applicable official guidelines into account. The issues raised by interested and affected parties should also be addressed in the assessment of impacts.

1. ISSUES RAISED BY INTERESTED AND AFFECTED PARTIES

List the main issues raised by interested and affected parties.

No issues were raised by Interested and Affected Parties thus far. All potential issues have been identified by the EAP, specialists (Biodiversity and Heritage), town planners, engineers and landowner.

Response from the practitioner to the issues raised by the interested and affected parties (A full response must be given in the Comments and Response Report that must be attached to this report):

N/A at this stage

2. IMPACTS THAT MAY RESULT FROM THE PLANNING AND DESIGN, CONSTRUCTION, OPERATIONAL, DECOMMISSIONING AND CLOSURE PHASES AS WELL AS PROPOSED MANAGEMENT OF IDENTIFIED IMPACTS AND PROPOSED MITIGATION MEASURES

List the potential direct, indirect and cumulative property/activity/design/technology/operational alternative related impacts (as appropriate) that are likely to occur as a result of the planning and design phase, construction phase, operational phase, decommissioning and closure phase, including impacts relating to the choice of site/activity/technology alternatives as well as the mitigation measures that may eliminate or reduce the potential impacts listed.

Alternative (preferred alternative)

Direct impacts:

Archaeological heritage

The Heritage Impact Assessment (**Appendix D4**) identified no significant impacts to pre-colonial archaeological material that will need to be mitigated prior to proposed development activities. The majority of the tools comprise single, isolated occurrences that occur in a disturbed or degraded context. Very few formal tools were found.

While a relatively large number of stone implements were encountered, the receiving environment is not considered to be a sensitive archaeological landscape.

Indications are that in terms of the archaeological heritage, the proposed activity is viable.

The following recommendations are made:

1. No archaeological mitigation is required.
2. Should any unmarked human burials/remains or ostrich eggshell water flask caches be uncovered during construction activities, these must immediately be reported to the archaeologist (Jonathan Kaplan 082 321 0172), or Ms Katy Smuts at the South African Heritage Resources Agency (021 462 4502). Burials, etc must not be removed or disturbed until inspected by the archaeologist.

Biodiversity

Direct loss of vegetation type and associated habitat due to construction and operational activities:

According to the Biodiversity Assessment (**Appendix D2**), the vegetation type on site is considered "Least threatened", and has been mostly transformed due to human activities. According to the draft Siyanda EMF, the vegetation is of medium conservation priority, but of

very low environmental significance and does not fall within a proposed conservation area. The impact on the natural vegetation on site would likely be only low, probable and localised.

The following mitigation measures are proposed

- All construction must be done in accordance with an approved construction and operational phase Environmental Management Plan (EMP), which must be developed by a suitably experienced Environmental Assessment Practitioner.
- A suitably qualified Environmental Control Officer must be appointed to monitor the construction phase of the project in terms of the EMP and the Biodiversity study recommendations as well as any other conditions which might be required by the Department of Environmental Affairs.
- An integrated waste management system must be implemented during the construction phase.
- All rubble and rubbish currently dumped onto the site must be collected and removed from the site to a suitable registered waste disposal site.
- Adequate measures must be implemented to ensure against erosion.
- The main watercourse to the east of the proposed site should be protected through a physical (fence) barrier. A viable corridor must be protected next to this river, which should co-inside at least with the 1:50 year flood line or 32 m from the riverbank (whichever is the furthest). This will not only protect the river system and its associated riparian vegetation, but will also incorporate almost all of the protected *Acacia erioloba* trees, a great many of the *Boscia foetida* as well as some of the *Aizoaceae* and *Aloe* species.
- The protection of the rocky area to the northeast of the property should also be considered. Apart from the fact that the rockiness of the area will hinder development, it harbours a great number of the protected *Aloe* and even *Boscia* individuals.
- All mature trees protected in terms of the National Forest Act, must be identified, mapped and protected and may not be removed. If necessary the layout plans should be adjusted to incorporate any such trees.
- All viable plant species protected in terms of the NCNCA that cannot be protected through layout alterations, must be protected through a dedicated search and rescue program (on approval for such removal through the correct permit from the DAFF).
- Permits must be obtained for the removal of any protected species which cannot be avoided.
- As a pre-cautionary measure all other viable herb-, bulbs- and succulent plant species encountered within the footprint should be removed and replanted through a dedicated search and rescue operation.
- Housing layout should aim to protect drainage lines, or ensure that it is incorporated within the storm water system.
- The internal network of services and roads must be carefully planned to minimise the impact on the remaining natural streams on the site.
- All CARA listed invasive alien species encountered on site must be removed. This includes all *Prosopis* species, and specifically, the emerging invasive cactus *Cylindropuntia fulgida* (Boxing-glove cactus), the presence of which is most alarming and it is imperative that all individuals of this species as well as those in the immediate surrounding areas are removed as fast as possible.

- Conservation Priority areas

According to the draft Siyanda EMF the proposed site falls within an area identified as of very low environmental sensitivity (1).

The impact is therefore considered low, probable and localised.

- Invasive alien vegetation

According to the Biodiversity Assessment, invasive alien rates are generally very low for most of this area. Problem areas are usually associated with river systems and other wetland areas. On the proposed site a number of *Prosopis* trees were observed along the drainage lines, and alarmingly also single individuals of the alien *Cylindropuntia fulgida* were also observed just south of the cattle cemetery. *Cylindropuntia fulgida* (Boxing-glove cactus) is an emerging invasive alien species in North West, Free State and Northern Cape Provinces. It is imperative that all individuals of this species as well as those in the immediate surrounding areas are removed as fast as possible. They have the potential of becoming a highly invasive species, which is very hard to control.

All *Prosopis* and all cactus species must be removed from the site.

The proposed development will therefore have a positive impact by removing invasive alien vegetation.

- Protected Plant Species

According to the Biodiversity Assessment (**Appendix D3**), the development will most definitely impact on a number of protected species. Some of these species can be excluded through placement and some could be protected through search & rescue. However, a great many individual plants will be impacted. It should be taken into account that a dedicated search and rescue should be able to rescue most of the significant species (subject to DAFF approval). In addition it should be non-negotiable that all protected tree species must be located and protected (may not be removed or impacted). Also take into account that apart from the Aloe and Ornithoglossum species very few of the other protected species are considered locally scarce.

The impact is considered being medium low, definite and local.

Freshwater ecosystems

According to the Biodiversity Assessment (**Appendix D3**), various non-perennial or dry watercourses and drainage lines have been observed, on portions of the Erf. Most of these are smaller drainage lines with only two seasonal streams of which the stream to the east of the property (outside of the current footprint) is the most significant. Almost all of these drainage lines are still in a relative natural state and well maintained. However, to the southwest of the property, illegal dumping and sand mining has made a significant impact on the integrity of the main water course.

All river and drainage lines on the property will eventually be impacted or will have to be included into a formal storm water drainage system. Trying to protect the small streams not already transformed will be almost impossible. However, it is recommended that these drainage systems are recognised as important ecological features which should be protected and maintained as such and wherever possible be maintained as natural as possible with

adequate buffer zones. In addition, the main water course to the east of the property is associated with a number of protected species and a corridor similar to at least the 1:50 year flood line should be preserved next to this stream.

The impact is considered on freshwater ecosystems is therefore considered medium low (after mitigation), probable, localised.

The drainage line to the east of the site has been taken into consideration, and has been incorporated into the layout plan as public open space.

Visual and noise impacts

The activity will impact on the visual character of the area. The presence of construction plant during the construction phase will have a visual impact, but this will only be during the construction phase and is expected to have a low impact.

The activity will create some noise during the construction phase of the development. Noise mitigation measures will be dealt with in the EMP. With the mitigation measures, as described in the EMP (**Appendix F**), the potential noise impacts are also expected to be negligible.

Socio-economic

The proposed development will create temporary job opportunities during the construction phase, as well as permanent job opportunities during the operational phase.

The provision of Business and Institutional land uses within the proposed development will further help with job creation and economic development for the area.

The impact will therefore have a medium to low positive impact.

Indirect impacts:

No significant negative indirect impacts are expected

Cumulative impacts:

No significant negative cumulative impacts are expected

BASIC ASSESSMENT REPORT

3. ENVIRONMENTAL IMPACT STATEMENT

Taking the assessment of potential impacts into account, please provide an environmental impact statement that summarises the impact that the proposed activity and its alternatives may have on the environment after the management and mitigation of impacts have been taken into account, with specific reference to types of impact, duration of impacts, likelihood of potential impacts actually occurring and the significance of impacts.

Alternative A (preferred alternative)

The following is a summary of the potential impacts, and their ratings, after mitigation:

Construction phase.

Potential impacts on archaeological heritage – **Low (negative), likely, localised, only during construction phase.**

Loss of vegetation - **Low (negative), probable, localised.**

Conservation priority areas - **Low (negative), localised.**

Protected plant species – **Medium low (negative), very likely, only during construction phase.**

Freshwater ecosystems – **Medium low (negative), probable, localized, only during construction phase.**

Job creation – **Medium Low (Positive), definite.**

Noise impact - **Negligible, definite, only during construction phase.**

Visual impact – **Low (negative), definite, during construction**

Operational Phase

Potential impacts on archaeological heritage – **No impacts expected**

Loss of vegetation and associated habitat - **Negligible**

Impact on threatened vegetation - **Negligible**

Freshwater ecosystems – **Negligible**

Job creation – **Medium Low (Positive), highly likely, localised**

Noise impact - **Negligible**

Visual impact – **Low (negative), definite, permanent**

Decommissioning

The project as proposed does not require 'decommissioning' or 'closure', as such the potential impacts thereof is considered irrelevant.

No-go alternative (compulsory)

According to the Biodiversity Assessment (**Appendix D3**), concluded that the "No-Go Alternative" alternative will not result in significant gain in regional conservation targets, the conservation of rare and endangered species or gain in connectivity. However, the no-go option will result in the protection of a number of protected species as well as the protection of the river systems. On the other hand urban creep and illegal dumping and sand mining activities have already impacted on large portions of the southern and south-western portions

BASIC ASSESSMENT REPORT

of the property.

These impacts are expected to increase over time and may result in a similar physical impact over time (although a much longer period). In addition the No-Go option will result in other areas being investigated for development (as is already the case). These areas may be even less suitable than the current site, which is already impacted to some degree and which is located favourably for the installations of services. At the best the No-Go alternative will result in the need to develop elsewhere.

Portions of this area are already disturbed and the need for providing basic services and housing remains a very urgent need in most towns in the Northern Cape.

SECTION E. RECOMMENDATION OF PRACTITIONER

Is the information contained in this report and the documentation attached hereto sufficient to make a decision in respect of the activity applied for (in the view of the environmental assessment practitioner)?

YES

Is an EMP attached?

YES

The EMP must be attached as Appendix F.

If "NO", indicate the aspects that should be assessed further as part of a Scoping and EIA process before a decision can be made (list the aspects that require further assessment):

N/A

If "YES", please list any recommended conditions, including mitigation measures that should be considered for inclusion in any authorisation that may be granted by the competent authority in respect of the application:

The following is a list of recommended conditions and mitigation measures from a biodiversity and heritage perspective:

- All construction must be done in accordance with an approved construction and operational phase Environmental Management Plan (EMP), which must be developed by a suitably experienced Environmental Assessment Practitioner.
- A suitably qualified Environmental Control Officer must be appointed to monitor the construction phase of the project in terms of the EMP and the Biodiversity study recommendations as well as any other conditions which might be required by the Department of Environmental Affairs.
- An integrated waste management system must be implemented during the construction phase.
- All rubble and rubbish currently dumped onto the site must be collected and removed from the site to a suitable registered waste disposal site.
- Adequate measures must be implemented to ensure against erosion.
- The main watercourse to the east of the proposed site should be protected through a physical (fence) barrier. A viable corridor must be protected next to this river, which should co-inside at least with the 1:50 year flood line or 32 m from the riverbank (whichever is the furthest). This will not only protect the river system and its associated riparian vegetation, but will also incorporate almost all of the protected *Acacia erioloba* trees, a great many of the *Boscia foetida* as well as some of the *Aizoaceae* and *Aloe* species.
- The protection of the rocky area to the northeast of the property should also be considered. Apart from the fact that the rockiness of the area will hinder development, it harbours a great number of the protected *Aloe* and even *Boscia* individuals.
- All mature trees protected in terms of the National Forest Act, must be identified, mapped and protected and may not be removed. If necessary the layout plans should be adjusted to incorporate any such trees.

BASIC ASSESSMENT REPORT

- All viable plant species protected in terms of the NCNCA that cannot be protected through layout alterations, must be protected through a dedicated search and rescue program (on approval for such removal through the correct permit from the DAFF).
- Permits must be obtained for the removal of any protected species which cannot be avoided.
- As a pre-cautionary measure all other viable herb-, bulbs- and succulent plant species encountered within the footprint should be removed and replanted through a dedicated search and rescue operation.
- Housing layout should aim to protect drainage lines, or ensure that it is incorporated within the storm water system.
- The internal network of services and roads must be carefully planned to minimise the impact on the remaining natural streams on the site.
- All CARA listed invasive alien species encountered on site must be removed. This includes all *Prosopis* species, and specifically, the emerging invasive cactus *Cylindropuntia fulgida* (Boxing-glove cactus), the presence of which is most alarming and it is imperative that all individuals of this species as well as those in the immediate surrounding areas are removed as fast as possible.
- Should any unmarked human burials/remains or ostrich eggshell water flask caches be uncovered during construction activities, these must immediately be reported to the archaeologist (Jonathan Kaplan 082 321 0172), or Ms Katy Smuts at the South African Heritage Resources Agency (021 462 4502). Burials, etc must not be removed or disturbed until inspected by the archaeologist.

SECTION F: APPENDIXES

The following appendixes must be attached as appropriate:

Appendix A: Site plan(s)

Appendix B: Photographs

Appendix C: Facility illustration(s)

Appendix D: Specialist reports

Appendix E: Comments and responses report

Appendix F: Environmental Management Programme (EMPr)

Appendix G: Other information

Appendix A

Site Layout Plans

APPENDIX A (1)

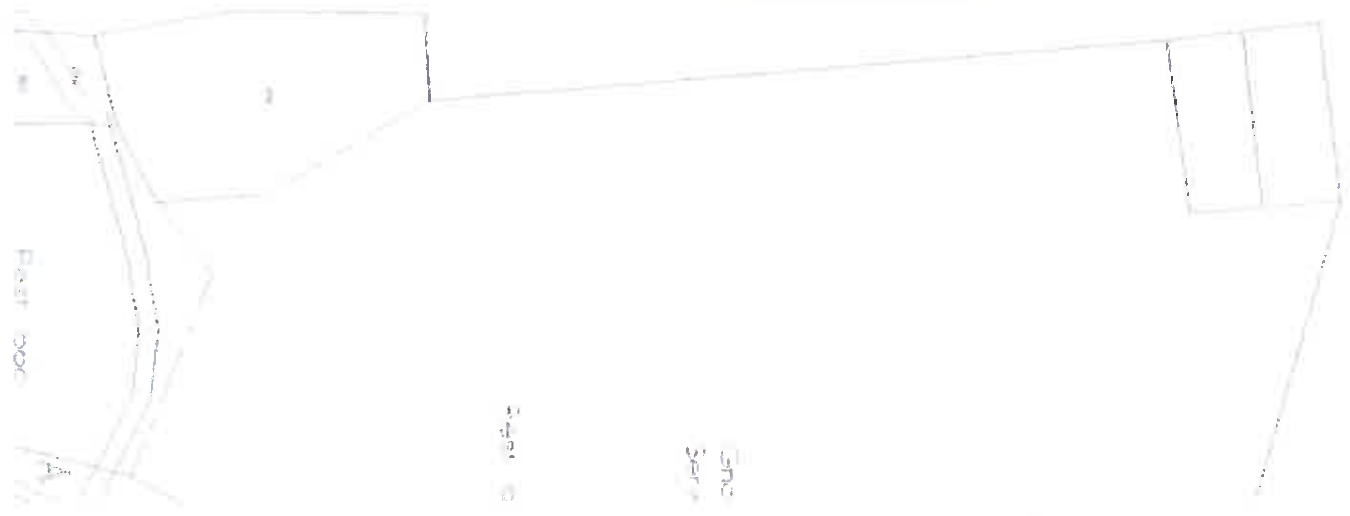
**Site Development Plan – Alternative 1
(Preferred Alternative)**

APPENDIX A (2)

Site Development Plan – Alternative 2



Lot No.	Area (sq. ft.)	Area (sq. m.)	Area (ac.)
101	1,200	111.5	0.26
102	1,200	111.5	0.26
103	1,200	111.5	0.26
104	1,200	111.5	0.26
105	1,200	111.5	0.26
106	1,200	111.5	0.26
107	1,200	111.5	0.26
108	1,200	111.5	0.26
109	1,200	111.5	0.26
110	1,200	111.5	0.26
111	1,200	111.5	0.26
112	1,200	111.5	0.26
113	1,200	111.5	0.26
114	1,200	111.5	0.26
115	1,200	111.5	0.26
116	1,200	111.5	0.26
117	1,200	111.5	0.26
118	1,200	111.5	0.26
119	1,200	111.5	0.26
120	1,200	111.5	0.26
121	1,200	111.5	0.26
122	1,200	111.5	0.26
123	1,200	111.5	0.26
124	1,200	111.5	0.26
125	1,200	111.5	0.26
126	1,200	111.5	0.26
127	1,200	111.5	0.26
128	1,200	111.5	0.26
129	1,200	111.5	0.26
130	1,200	111.5	0.26
131	1,200	111.5	0.26
132	1,200	111.5	0.26
133	1,200	111.5	0.26
134	1,200	111.5	0.26
135	1,200	111.5	0.26
136	1,200	111.5	0.26
137	1,200	111.5	0.26
138	1,200	111.5	0.26
139	1,200	111.5	0.26
140	1,200	111.5	0.26
141	1,200	111.5	0.26
142	1,200	111.5	0.26
143	1,200	111.5	0.26
144	1,200	111.5	0.26
145	1,200	111.5	0.26
146	1,200	111.5	0.26
147	1,200	111.5	0.26
148	1,200	111.5	0.26
149	1,200	111.5	0.26
150	1,200	111.5	0.26
151	1,200	111.5	0.26
152	1,200	111.5	0.26
153	1,200	111.5	0.26
154	1,200	111.5	0.26
155	1,200	111.5	0.26
156	1,200	111.5	0.26
157	1,200	111.5	0.26
158	1,200	111.5	0.26
159	1,200	111.5	0.26
160	1,200	111.5	0.26
161	1,200	111.5	0.26
162	1,200	111.5	0.26
163	1,200	111.5	0.26
164	1,200	111.5	0.26
165	1,200	111.5	0.26
166	1,200	111.5	0.26
167	1,200	111.5	0.26
168	1,200	111.5	0.26
169	1,200	111.5	0.26
170	1,200	111.5	0.26
171	1,200	111.5	0.26
172	1,200	111.5	0.26
173	1,200	111.5	0.26
174	1,200	111.5	0.26
175	1,200	111.5	0.26
176	1,200	111.5	0.26
177	1,200	111.5	0.26
178	1,200	111.5	0.26
179	1,200	111.5	0.26
180	1,200	111.5	0.26
181	1,200	111.5	0.26
182	1,200	111.5	0.26
183	1,200	111.5	0.26
184	1,200	111.5	0.26
185	1,200	111.5	0.26
186	1,200	111.5	0.26
187	1,200	111.5	0.26
188	1,200	111.5	0.26
189	1,200	111.5	0.26
190	1,200	111.5	0.26
191	1,200	111.5	0.26
192	1,200	111.5	0.26
193	1,200	111.5	0.26
194	1,200	111.5	0.26
195	1,200	111.5	0.26
196	1,200	111.5	0.26
197	1,200	111.5	0.26
198	1,200	111.5	0.26
199	1,200	111.5	0.26
200	1,200	111.5	0.26



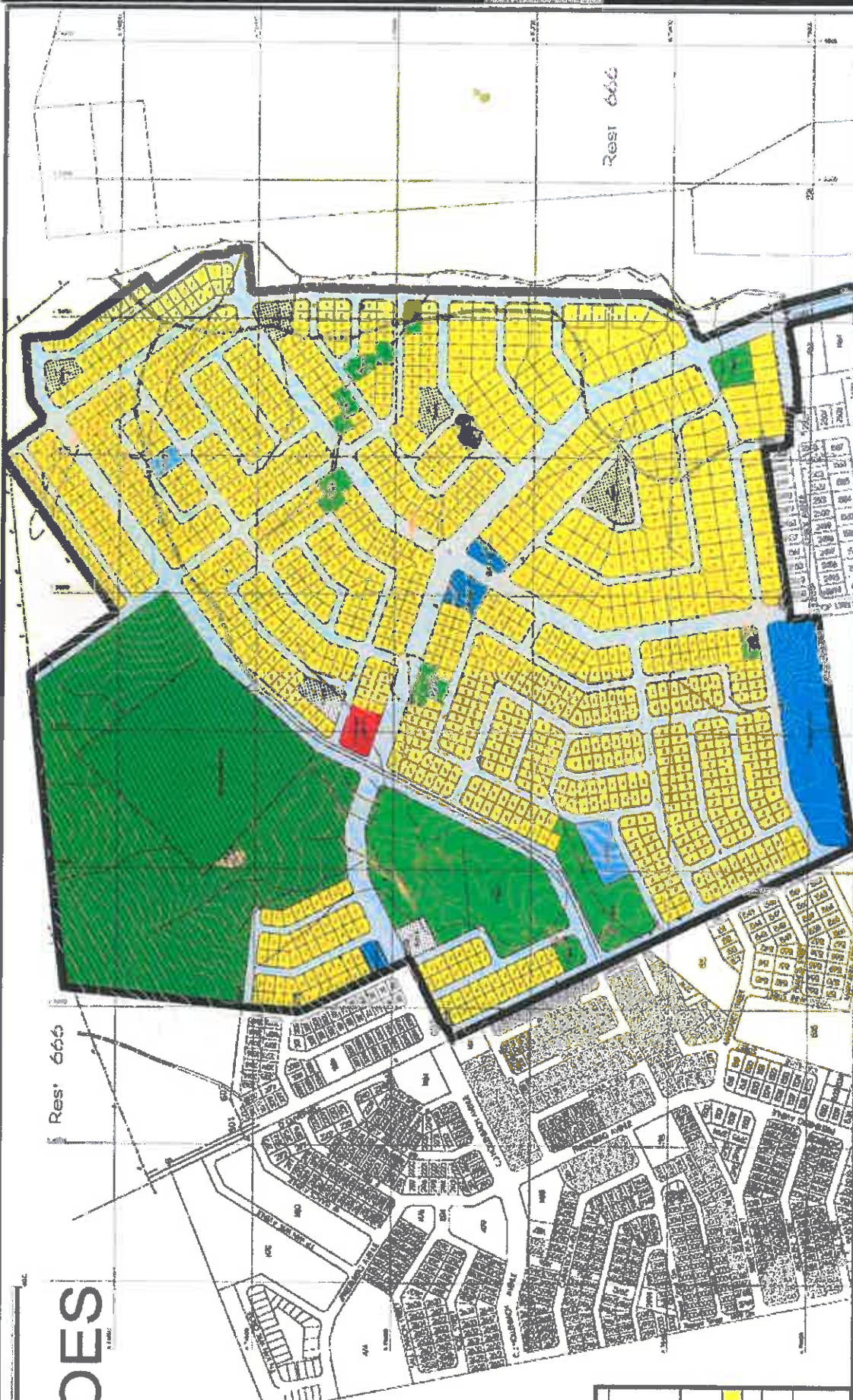
APPENDIX A (3)

Site Development Plan – Alternative 3

KEIMOES

Res' 666

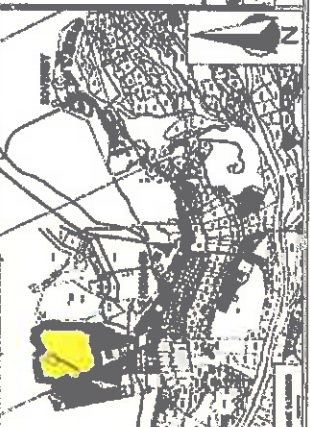
Res' 666



AVVERTENZE
 Il presente piano di attuazione del progetto di urbanizzazione è stato approvato dalla Giunta Municipale con deliberazione n. 15 del 19/05/2010 e costituisce parte integrante del Piano di attuazione urbanistico approvato con deliberazione n. 15 del 19/05/2010. Il presente piano di attuazione urbanistico è stato approvato dalla Giunta Municipale con deliberazione n. 15 del 19/05/2010.

Nota:
 Nel 1° sem 1

PROF. S. IGARIB DETAL URBANISMI
 MONITORING DEL DISEGNO URBANISTICO
 PIAZZALE CALABRIZZI, 10
 00187 ROMA (RM)
 Tel. 06/47811111
 Fax 06/47811112
 E-mail: s.igarib@detal.it



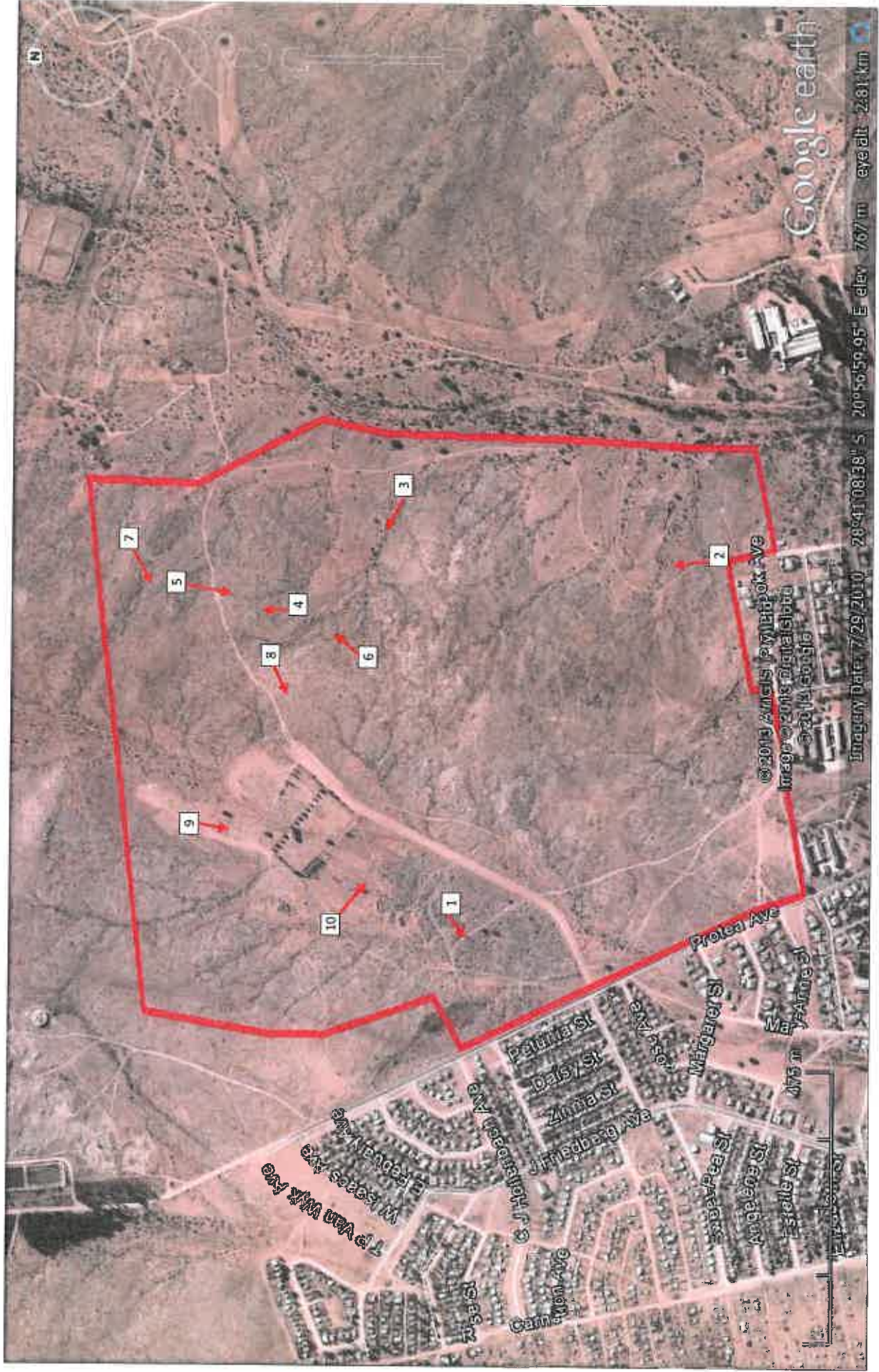
ALBERI		CULTURE		TOTALI		QUANTITÀ		TOTALI		ALTEZZA		COSTI	
ESISTENTI	NUOVI	ESISTENTI	NUOVI	ESISTENTI	NUOVI	ESISTENTI	NUOVI	ESISTENTI	NUOVI	ESISTENTI	NUOVI	ESISTENTI	NUOVI
100	100	100	100	200	200	100	100	100	100	100	100	100	100
100	100	100	100	200	200	100	100	100	100	100	100	100	100

MACROPLAN
GOSETTE
STATI & SRECKBEPANINNERS
KAI IGARIB MUNISIPALITEIT
UPTKAIKEMOES
 1:2000
 19-05-2010

Appendix B

Site photographs

Site photographs



Aerial image of the site, including photograph locations and directions. Proposed site is indicated by the red polygon. Photos taken on 06 December 2012.

Photographs



Photo 1: Illegal dumping and sand mining on site



Photo 2: Taken from position 2, looking north over the site



Photo 3: Taken from position 3, looking west at a small drainage line through the site



Photo 4: Taken from position 4, looking north



Photo 5: Taken from position 5, looking south over the site.



Photo 6: Taken from position 6, looking north east.



Photo 7: Taken from position 7, looking south west from the northern boundary of the site



Photo 8: Taken from position 8, looking west over the site towards the graveyard



Photo 9: Taken from position 9, looking south toward the graveyard



Photo 10: Taken from position 9, looking south-east over the general site

Appendix C

Facility Illustration (none)

Appendix D

Specialists Reports

APPENDIX D:

- 1) **Town Planning Motivational Report**
- 2) **Business Plan**
- 3) **Biodiversity Assessment**
- 4) **Heritage Impact Assessment**

APPENDIX D (1)

Town Planning Motivational Report

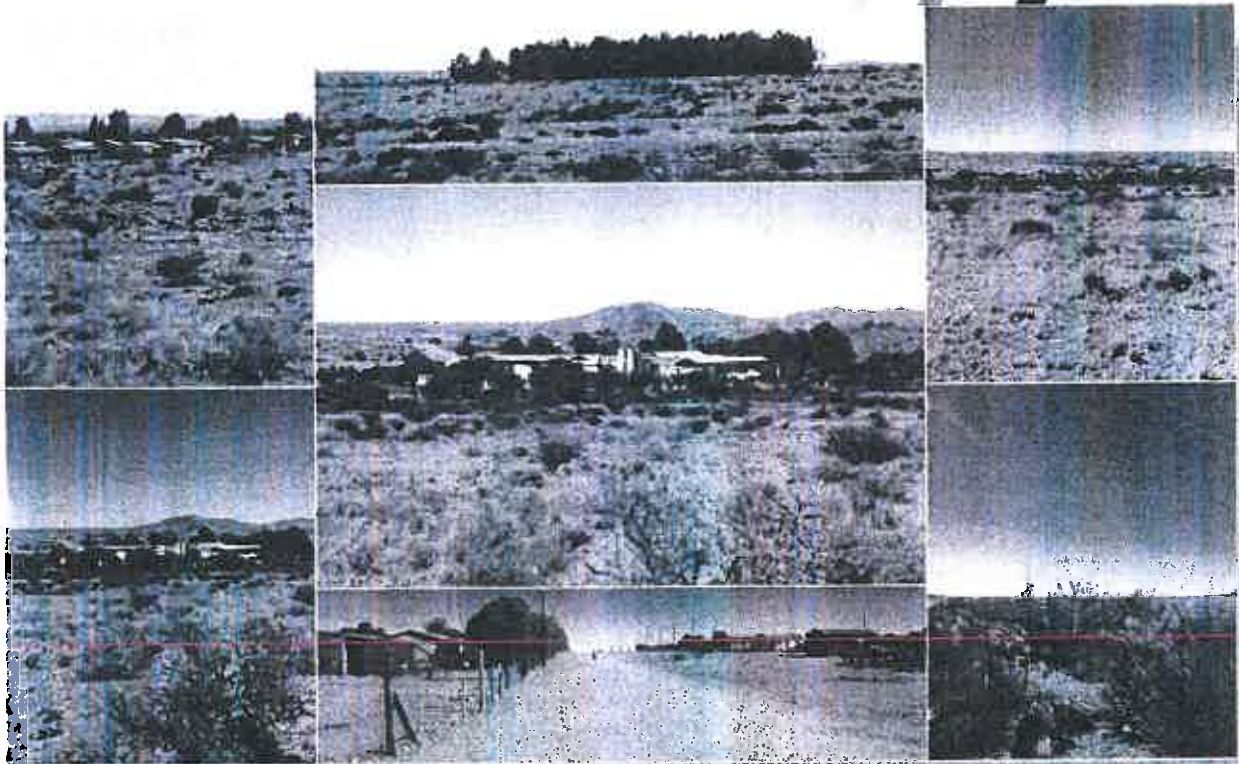
KEIMOES

(EKONOMIES/ SUB-EKONOMIES)

AANSOEK OM HERSONERING EN ONDERVERDELING INGEVOLGE
DIE NOORD-KAAPSE WET OP ONTWIKKELING EN BEPLANNING
(WET 7 VAN 1998)

van

'N GEDEELTE VAN DIE RESTANT VAN ERF 666, KEIMOES, KAI IGARIB MUNISIPALITEIT,
PROVINSIE NOORD-KAAP



Julie 2010

SAAMGESTEL DEUR:
Macroplan (Stads- en Streekbeplanners)

Postbus 987
Upington
8800

Tel: 054 - 332-0642
Faks: 054 - 332-4263
e-pos: macroplan@rmweb.co.za



KEIMOES

(EKONOMIES EN SUB-EKONOMIES)

AANSOEK OM HERSONERING EN ONDERVERDELING INGEVOLGE
DIE NOORD-KAAPSE WET OP ONTWIKKELING EN BEPLANNING
(WET 7 VAN 1998)

van

'N GEDEELTE VAN DIE RESTANT VAN ERF 666, KEIMOES, KAI !GARIB MUNISIPALITEIT,
PROVINSIE NOORD-KAAP



Julie 2010

SAAMGESTEL DEUR:
Macroplan (Stads- en Streekbeplanners)

Postbus 987
Uitenhage
6600

Tel: 054 - 332 3642
Faks: 054 - 332 4283
Epos: macroplan@imweb.co.za



INHOUDSOPGAWE
AANSOEK OM GRONDGEBRUIKVERANDERING

	Bladsy
AFDELING A: AANSOEKVORM	1
AFDELING B: MOTIVERINGSVERSLAG	8
1 Inleiding	8
1.1 Agtergrond	8
1.2 Huidige Realiteit	8
1.3 Opdrag	9
1.4 Doel	9
1.5 Regsgebied	9
1.6 Voldoening aan Beginsels	9
2 Beplanningsoorwegings	12
2.1 Ligging van die Terrein	12
2.2 Fisiografie	12
2.3 Oorhoofse Beplanning	20
2.4 Karakter van die Omgewing	20
2.5 Infrastruktuurdienste	21
2.6 Grootte, Sonering en Regulasies	22
2.7 Gevolgtrekking	22
3 Voorgestelde Hersonering en Onderverdeling	22
3.1 Beplanningsbenadering	22
3.2 Publieke Deelname	23
3.3 Voorgestelde Grongebruike	23
4 Aanbeveling	25
4.1 Goedkeuring van die Aansoek	25
Lys van Figure	
Figuur 1: Liggingsplan: Streek	10
Figuur 2: Liggingsplan: Plaaslik	11
Figuur 3: Soneringsplan: Uittreksel	13
Figuur 4: Algemene grondgebruike	14
Figuur 5: Detail Uitlegplan – sien Bylaag C	
Lys van Foto's	
Foto's 1-2: Aansoekgebied	15
Foto's 3-4: Aansoekgebied	16
Foto's 5-6: Aansoekgebied	17
Foto's 7-8: Aansoekgebied	18
Foto's 9-10: Aansoekgebied	19
Lys van Bylae	
Bylaag A: Brief van Aanstelling	
Bylaag B: Akte navrae	
Bylaag C: Figuur 5- Uitlegplan	



KAI !GARIB MUNISIPALITEIT

Aansoek vir grondgebruikverandering kragtens die Noord-Kaapse Wet op Ontwikkeling en Beplanning, 1998 (Wet 7 van 1998)

Erfnommer:	'n Gedeelte van die Restant van Erf 666, Keimoes, Kai !Garib Munisipaliteit, Provinsie Noord-Kaap.
Eiendomsbeskrywing:	'n Gedeelte van die Restant van Erf 666, Keimoes, Kai !Garib Munisipaliteit, Provinsie Noord-Kaap.
Straatadres:	Die aansoekgebied is aan die noordelike kant van Keimoes geleë, oos van die noord-westelike woongebiede.
Geregistreeerde eienaar(s):	Alle betrokke eiendomme word besit deur die Kai !Garib Munisipaliteit (sien aangehegte akte navrae).
Aansoeker:	Macroplan - Jacobus Treurnich (Id no. 870923 5131 081) - namens die bovermelde grondelenaar.

AANSOEK OM:

(Merk asseblief die toepaslike blokkie met 'n kruisie)

Die Hersonerings van grond vanaf een sone na 'n ander	<input checked="" type="checkbox"/>
'n Afwyking vanaf die grondgebruikbeperkings voorgeskryf in die regulasies van 'n toepaslike soneringskema	<input type="checkbox"/>
'n Vergunningsgebruik soos bepaal in die Raad se soneringskema	<input type="checkbox"/>
Die beoefening van 'n beroep vanaf 'n woonperseel	<input type="checkbox"/>
'n Tydelike afwyking om toe te laat dat 'n gebou of grond vir 'n tydperk van hoogstens 5 jaar gebruik word vir 'n doel waarvoor daar nie 'n spesifieke sone voorsiening gemaak is nie	<input type="checkbox"/>
Die Onderverdeling van grond	<input checked="" type="checkbox"/>
Die opheffing, opskorting of wysiging van Titellaktebeperking(s)	<input type="checkbox"/>
Die opheffing, opskorting of wysiging van enige voorwaardes gestel aan 'n aansoek	<input type="checkbox"/>
Die verlenging van die 2 jaar van goedkeuring van 'n aansoek	<input type="checkbox"/>
Enige ander aansoek ingevolge die Wet of regulasies.	<input type="checkbox"/>
Gee 'n kort beskrywing van die aansoek (sonering wat verlang word, aantal erwe wat geskep word, ens):	
Die aansoek behels die uitbreiding van Keimoes se ekonomiese en sub-ekonomiese noordelike woonbuurte en fokus grotendeels op die ontwikkeling van residensiële erwe, met gepaardgaande komplementêre sonerings. Sien Afdeling B vir verdere detail in hierdie verband.	

Die Munisipale Bestuurder
Kai IGarib Munisipaliteit
Posbus 174
Kakamas
8870



Geagte Heer / Dame

AANSOEK VIR GRONDGEBRUIKVERANDERING KRAGTENS DIE NOORD-KAAPSE WET OP ONTWIKKELING EN BEPLANNING, 1998 (WET 7 VAN 1998)

(HIERDIE VORM MOET DEUR DIE AANSOEKER/VERTEENWOORDIGER INGEVUL WORD)
(Merk asseblief die toepaslike blokkie met 'n kruisie waar van toepassing)

1. PERSOONLIKE BESONDERHEDE VAN AANSOEKER

- | | | |
|-----|---|--|
| 1.1 | Naam van persoon/firma aan wie die korrespondensie gerig moet word: | Macroplan (Jacobus Treurnich) |
| 1.2 | Adres: | Posbus 987
Uppington
8800 |
| 1.3 | Telefoon nommer: | 054 332 3642 |
| 1.4 | Faks nommer : | 054 332 4283 |
| 1.5 | Sel nommer: | 082 821 1024 |

2. PERSOONLIKE BESONDERHEDE VAN DIE GEREГИSTREERDE EIENAAR VAN DIE GROND

- | | | |
|-----|-----------------------------------|--------------------------------------|
| 2.1 | Naam van geregistreeerde eienaar: | Kai IGarib Munisipaliteit |
| 2.2 | Adres: | Posbus 8
Keimoes
8860 |
| 2.3 | Telefoon nommer: | 054 431 6400 |
| 2.4 | Faks nommer : | 054 431 6401 |
| 2.5 | Sel nommer: | NVT |

Indien die aansoeker nie die geregistreeerde eienaar(s) van die grondeenheid is nie, heg 'n volmag van die geregistreeerde eienaar(s) by die aansoek aan. Dit geld ook indien die persoon wat aansoek doen, nog besig is om die grondeenheid te verkry en indien die grondeenheid deur 'n maatskappy of meer as een persoon besit word.

3. ALGEMENE INLIGTING AANGAANDE DIE GRONDEENHEID

- 3.1 Erf nommer: 'n Gedeelte van die Restant van Erf 666, Keimoes, Kai !Garib Munisipaliteit, Provinsie Noord-Kaap.
- 3.2 Fisiese adres van grondeenheid: Die aansoekgebied is aan die noordelike kant van Keimoes geleë, oos van die noord-westelike woongebiede.
- 3.3 Uitbreiding nommer: NVT
- 3.4 Geregistreeerde beskrywing ingevolge titelbewys(e): 'n Gedeelte van die Restant van Erf 666, Keimoes, Kai !Garib Munisipaliteit, Provinsie Noord-Kaap.
- 3.5 Nommer en datum van Titelbewys(e): - Erf 666, Keimoes: G16/1942
- 3.6 Oppervlakte van grondeenheid: - Erf 666, Keimoes: 767.0527ha
- 3.7 Wat is die huidige sonering van die grondeenheid? - Erf 666, Keimoes: **Onbepaald en Landbousone I**
- 3.8 Is die grondeenheid ontwikkel (geboue, ens.)?
Indien wel, wat is die aard en toestand van die ontwikkelings/verbeterings?
- Ja: Nee:
- Die grootste deel van die aansoekgebied is vakant, maar daar is ook begraaftlaas op die eiendom geleë wat in ag geneem moet word. 'n Kommerwekkende groot hoeveelheid storting vind tans plaas op gedeeltes van die aansoekgebied. Gemelde storting sal gestaak moet word ten einde die area suksesvol as uitbreidingsarea te kan benut.
- 3.9 Word die huidige sonering van die grond benut?
Indien nie, wat is die aanwending (gebruik) van die grond?
- Ja: Nee:
- Soos reeds vermeld is die eiendom tans vakant, behalwe vir gemelde stortings en die begraaftlaas wat in die sentraal noordelike gedeeltes geleë is.
- 3.1 Word die eiendom deur 'n verband beswaar?
Indien wel, heg die verbandhouer se toestemming by die aansoek aan.
- Ja: Nee:
- Nie Van Toepassing**
- 3.1 Is 'n vorige aansoek om onderverdeling/ hersonering/vergunnings-gebruik/ afwyking van die eiendom oorweeg?
Indien wel, wanneer en verstrek besonderhede, insluitend alle owerheids-verwysingsnommers en besluite:
- Ja: Nee:
- Die erwe/personele betrokke by hierdie aansoek vorm deel van die Raad se eiendomsbates en meentgronde. Hierdie eiendom was dus reeds in die verlede betrokke by aansoeke om dorpstigting in die gebied, soos ook in hierdie geval. Die res van die gebied sal steeds vzkant gelaat word.

4. **BESONDERHEDE VAN AANSOEK**4.1 **Beskryf die voorgename ontwikkeling kortliks:**

Die aansoek behels die uitbreiding van Keimoes se ekonomiese en sub-ekonomiese woonbuurte en fokus grotendeels op die ontwikkeling van residensiële erwe, met gepaardgaande komplimentêre sonerings. Die aansoek maak deel uit van die 1000 sub-ekonomiese en 200 ekonomiese erf ontwikkeling van Keimoes. Sien Afdeling B vir verdere detail in hierdie verband.

4.2 **Het die voorstel betrekking op die hele grondeenheid?**Ja: Nee:

Indien nie, meld die grootte van daardie gedeelte van die grondeenheid wat nie betrokke is nie, asook waarvoor dit gebruik gaan word: **Slegs 'n gedeelte van die betrokke elendom sal ontwikkel word. Sien Figuur 5.**

4.3 **Watter reëlins sal getref word met betrekking tot die volgende dienste vir die erf/erwe? (Volle besonderhede moet verstrek word, veral in gevalle waar dit nie moontlik is om by bestaande plaaslike owerheidsdienste aan te sluit nie).**

Hierdie aansoek het betrekking op 'n uitbreiding van dorpsgebied op aanvraag van die Plaaslike Owerheid (publieke sektor). Die lewering van enige dienste en infrastruktuur sal dus die verantwoordelikheid van die Kai IGarib Munisipaliteit wees, tensy enige ooreenkomste met ander kontrakteurs aangegaan word.

a) **Watertoevoer**

Die bestaande ontwikkeling rondom die aansoekgebied word reeds van hierdie diens voorsien deur die Kai IGarib Munisipaliteit. Die Plaaslike Owerheid sal verantwoordelik wees vir die uitbreiding van hierdie diens ten einde aan alle individuele erwe in hierdie ontwikkeling se behoeftes te voorsien.

b) **Dreinerings en wegdoen van stormwater**

Die area waarin die aansoekgebied geleë is word gekenmerk as aried met 'n lae jaarlikse reënval. Dit is egter noodsaaklik dat daar voorsiening gemaak word vir somer reënstorms waar groot volumes presipitasie in kort intervalle aangetref word. Die ontwikkeling is gevolglik ontwerp om voorsiening te maak vir die bogrondse hantering van stormwater in die strate van die omgewing (soos algemene praktyk), vanwaar dit weggevoer kan word in lokale stormwaterslote. Sien 2.5. vir 'n uitgebreide verduideliking van hierdie aspek.

c) **Wegdoen van nagvuil, vuilwater en rioolwater**

Die bestaande ontwikkeling rondom die aansoekgebied word reeds van 'n spoelrioolstelsel voorsien deur die Kai IGarib Munisipaliteit. Die Plaaslike Owerheid sal dus verantwoordelik wees vir die uitbreiding van hierdie diens ten einde die nuwe ontwikkeling te akkommodeer op 'n aanvaardbare standaard.

d) **Wegdoen van vullis**

Die Kai IGarib Munisipaliteit voorsien reeds hierdie diens aan die gebied wat aangrensend tot die aansoekgebied voorkom. Die munisipaliteit sal dan ook verantwoordelik wees vir die voorsiening van hierdie diens aan die nuwe ontwikkeling. Die roetes vir vullisverwydering sal dus aangepas moet word ten einde hierdie nuwe gebied in te sluit.

e) **Elektrisiteit**

Die Kai IGarib Munisipaliteit voorsien reeds hierdie diens in die omliggende areas en daar word verwag dat hierdie nuwe ontwikkeling ook sal inskakeel by hierdie stelsel. Die Munisipaliteit sal verseker dat die voorsiening van elektrisiteit vanaf Eskom na die netwerk van die dorp voldoende is vir alle beplande uitbreidings.

5. BEPERKENDE VOORWAARDES

- 5.1 Is daar enige beperkings, soos serwitute, regte, verbande, ens. ten opsigte van die grondeenheid ingevolge die transportakte wat 'n invloed kan hê op hierdie aansoek, wat opgehef moet word?

Ja:	Nee: X
-----	--------

Indien wel, vermeld volledige besonderhede:

.....

- 5.2 Is enige gedeelte van die grondeenheid in 'n vloedvlakte van 'n rivier onder die 1:50 jaarvloedlyn geleë of onderhewig aan enige oorsromings?

Ja: X	Nee:
-------	------

Indien wel, verstrek besonderhede:

Geen deel van die aansoekgebied val onder die 1:50 Jaar vloedlyn van die Oranjerivier nie. Dit is egter belangrik dat daar melding gemaak word van die stormwaterslote op die terrein wat vanuit 'n noord-oostelike rigting vloei. Hierdie sloot vloei oor die laerliggende dele van die aansoekgebied en sal binne oopruimtes in die uitleg geakkommodeer word.

- 5.3 Is daar enige fisiese beperkings (bv. steil hellings, onstabiele grondformasies, moerasse, ens.) Wat die beoogde ontwikkeling kan beïnvloed?

Ja:	Nee: X
-----	--------

Indien wel, verstrek volle besonderhede en meld hoe die probleem opgelos gaan word:

.....

- 5.4 Is daar enige ander goedkeuring vir die implementering van die beoogde ontwikkeling nodig wat buite hierdie Wef val?

Ja: X	Nee:
-------	------

Indien wel, lys die goedkeurings:

- Die aansoek se omvang het tot gevolg dat dit onderhewig sal wees aan die goedkeuring van 'n uitgebreide omgewingsimpakstudie (EIA). Die Raad word dus versoek om so 'n proses te loods ten einde aan alle wetlike vereistes te voldoen. Gemelde proses sal in die toekoms versoek word alvorens enige behuisingsprojekte goedgekeur word.
- Die aansoek is ook onderhewig aan die afhandeling van 'n Geotegniese Studie. Gemelde studie is afgehandel en behartig deur BVI Raadgewende Ingenieurs.

6. DIE VOLGENDE DOKUMENTE WORD INGEDIEN TER STAWING VAN DIE AANSOEK

BESONDERHEDE VAN DOKUMENT		JA	NEE	NVT
6.1	'n <i>Liggingskaart t.o.v. die dorp of streek</i>	X		
6.2	'n <i>Plaaslike liggingsplan</i> wat die perseel relatief tot die omliggende persele toon;	X		
6.3	'n Plan wat die <i>sonering</i> van die omliggende gebied toon;	X		
6.4	'n Plan wat die <i>werklike en bestaande gebrulke</i> wat die perseel omring, toon;	X		
6.5	'n <i>Uitlegplan</i> ;	X		
6.6	'n Afskrif van die <i>Titelakte(s) en Opmetingsdiagramme</i> van die grond;			X
6.7	'n Afskrif van enige <i>serwituutakte</i> betreffende die grond;			X

BESONDERHEDE VAN DOKUMENT		JA	NEE	NVT
6.8	'n Afskrif van die verbandhouer se toestemming , indien van toepassing;			X
6.9	'n Afskrif van enige sertifikate van mineraalregte en sedering daarvan, tesame met die mineraalreghouer se toestemming , indien van toepassing;			X
6.10	Die eienaar se toestemming en/of volmag , indien van toepassing;	X		
6.11	Dokumentasie betreffende die verwagte voorsiening van gemeenskapsfasiliteite en die verantwoordelikhede van openbare owerhede in hierdie verband;			X
6.12	Dokumentasie betreffende die verwagte voorsiening van ingenieurs- of paddienste en verantwoordelikhede van openbare owerhede in hierdie verband;			X
6.13	Dokumentasie betreffende enige prosesse van openbare betrokkenheid wat geïnisieer is met betrekking tot hierdie aansoek en enige maatskaplike ooreenkomste, indien van toepassing;			X
6.14	Indien die aansoeker 'n maatskappy, beslote korporasie of ander regsentiteit, behalwe 'n natuurlike persoon is, is 'n afskrif van 'n geldige magtigende besluit aangeheg;			X
6.15	'n Vloedlynsertifikaat wat aandui of die grond of enige gedeelte daarvan aan 'n 1:50 jaarvloedlyn onderworpe is, al dan nie;			X
6.16	'n Verkeersimpakevaluering , gegrond op die kapasiteit van die omliggende padnetwerk om enige bykomende eise te hanteer wat as gevolg van die ontwikkeling ontstaan, indien vereis word;			X
6.17	'n Omgewingsimpakevaluering gegrond op die potensiele impak wat die voorgestelde aansoek sal hê ten opsigte van die konteks van die omliggende omgewing; (sien vereistes in voorafgaande vereistes)		X	
6.18	'n Geotegniese verslag ;	X		
6.19	'n Bewys wat aantoon in watter mate die aansoek voldoen aan die beginsels in hoofstuk I van hierdie Wet;	X		
6.20	'n Staat wat aantoon in watter mate die aansoek voldoen aan enige goedgekeurde ontwikkelings- en beplanningsraamwerk in hoofstuk I van hierdie Wet bedoel;	X		
6.21	'n Volledige motiveringsverslag (sien uiteensetting in voorafgaande voorskrifte);	X		

Ek die ondergetekende, sertifiseer dat al die inligting wat in hierdie aansoekvorm verskyn, asook die inligting in die aanhangsels, korrek en volledig is en dat die aansoek verstaan word.

VOLLE NAME: ...**Jacobus Treurnich (Macroplan nms die grondeenaar)**...

HANDTEKENING: 

DATUM: ...**01 Julie 2010**.....

DATUM WAAROP DIE AANSOEK BY
DIE PLAASLIKE OWERHEID INGEDIEN IS:

AFDELING B: MOTIVERINGSVERSLAG

1. INLEIDING

1.1 AGTERGROND

Die Siyanda streek in die Noord-Kaap Provinsie is 'n area van vele kontraste met uitgestrekte vlaktes en pragtige natuurskoon. Die area val binne 'n klimaatstreek wat uiterste klimaatstoestande ervaar en somerreënval geniet, veral in die maande van Januarie tot Maart. Buiten die ekstensiewe duineveld en dorre landskap, vloei die groen lewensaar van die magtige Oranjerivier deur die gebied en bring dit lewe aan duisende hektare wingerd en ander intensiewe landbouaktiwiteite. Dit is juis die samestelling van klimaatstoestande en watervoorsiening uit die Oranjerivier wat 'n suksesvolle druiwebedryf moontlik gemaak het en deur die regulering van die Oranjerivier se vloei kon hierdie ekonomiese sektor gestabiliseer word.

Die Kai !Garib Munisipaliteit, geleë binne die Siyanda Distrik Munisipaliteit, word dan ook deurkruis deur die Oranjerivier, waar dit bekend staan as die Benede- Oranje Streek. Ook hier het die ontwikkeling van die landbousektor, gestimuleer deur die grootskaalse besproeiingsprojekte, 'n uitkruis effek van ekonomiese ontwikkeling in ander sektore gehad. Die grootskaalse ontwikkeling in die area, konsolidasie van landboubedrywe en vestiging van sendinggemeentes, het op hul beurt tot die vestiging van stedelike nedersettings in die streek gelei om die gemeenskappe te dien. Vandag word Kai !Garib deur drie groot dorpe, naamlik Keimoes, Kakamas en Kenhardt, tesame met kleiner omliggende nedersettings, gekenmerk.

Die groei van die landbousektor oor die afgelope dekade en die suksesvolle uitvoerdruiwe en rosyntjie boerderyaktiwiteite van die omgewing, het geweldige ekonomiese vooruitgang na die streek gebring en manifesteer in menigte sektore. Hierdie groei het gevolglik al meer mense na die gebied gelok en daar was 'n definitiewe aanwas in die bevolking van hierdie gebiede, hetsy deur migrasie of natuurlike groei. Hierdie aanwas het dan ook die effek dat daar 'n behoefte bestaan vir die uitbreiding van die stedelike gebied ten einde aan die bevolking se behuisingsbehoeftes te voorsien. Die onus val dus op die Plaaslike Owerheid om voorsiening te maak vir hierdie groei en te sorg dat uitbreiding op 'n geordende wyse, deur goeie stadbeplanningsbeginsels, manifesteer.

Keimoes is geen uitsondering in die gebied nie, en die behoefte tot behuising het die Kai !Garib Munisipaliteit genoop om hierdie projek van stapel te stuur ten einde voorsiening te maak vir die groeiende gemeenskap. Hierdie aansoek om hersonering en onderverdeling word dus geloods ten einde die ontwikkeling van residensiële uitbreidings (in die ekonomiese en sub-ekonomiese komponent) mee te bring.

1.2 HUIDIGE REALITEIT

Die aansoekgebied ('n gedeelte van die Restant van Erf 666, Keimoes) beskik tans oor 'n Onbepaalde sonering op die gebied van toepassing in hierdie aansoek en word besit deur die Kai !Garib Munisipaliteit. Ten einde die bovermelde residensiële uitbreiding binne die riglyne van die Noord-Kaapse Wet op Ontwikkeling en Beplanning (Wet 7 van 1998) en die toepaslike Skemaregulasies van die Kai !Garib Munisipaliteit te akkommodeer, moet sekere wetlike

aspekte afgehandel word. Daar word dus aansoek gedoen om die **hersonering (verskeie grondgebruike) en onderverdeling (1237 erwe)** van die aansoekgebied. Hierdie aansoek word gevolglik geloods ten einde al die wetlike prosedures by so 'n aansoek af te handel en die publieke deelname proses te loods. Sien figuur 5 vir verdere detail in hierdie verband.

1.3 OPDRAG

Die grondeienaar, **Kai IGaib Munisipaliteit** (in hul hoedanigheid as Plaaslike Owerheid), het dus tot die besluit gekom om hierdie aansoek om grondgebruikverandering te loods, ten einde die bovermelde ontwikkeling op die aansoekgebied ('n gedeelte van die **Restant van Erf 666, Keimoos**) moontlik te maak. **Len J Fourie** (Hoofstadsbeplanner te Macroplan) het gevolglik opdrag ontvang vanaf die Raad om hierdie aansoek te behartig. Sien Bylaag A vir brief van aanstelling.

1.4 DOEL

Die doel van hierdie verslag is dus tweeledig van aard, nl.:

- Om aansoek te doen tot die **hersonering en onderverdeling** van die aansoekgebied ('n gedeelte van die **Restant van Erf 666, Keimoos**) ten einde dorpsuitbreiding te kan akkommodeer.
- Om die **Munisipaliteit Kai IGarib** behulpsaam te wees om die formaliteite in hierdie verband af te handel.

1.5 REGSGEBIED

Ingevolge bevoegdhede toegedien deur die LUR (ingevolge Artikel 76 van Wet 7 van 1998, Noord-Kaapse Wet op Ontwikkeling en Beplanning), is die bevoegdheid om die **hersonering en onderverdeling** goed te keur, gedelegeer aan die Plaaslike Owerheid.

1.6 VOLDOENING AAN BEGINSELS

Hierdie aansoek voldoen aan die algemene beginsels soos uiteengesit in Hoofstuk I van die Noord-Kaapse Wet op Ontwikkeling en Beplanning, asook die Wet op Ontwikkelingsfasilitering (Wet 67 van 1995), naamlik:

- *Hierdie aansoek gee gestalte aan die integrasie van sosiale, ekonomiese, institusionele en fisiese aspekte van grondontwikkeling.*
- *Met die aansoek die beskikbaarheid van residensiële en indiensnerringsgeleenthede naby of geïntegreerd met mekaar bevorder word.*
- *Hierdie aansoek sal die bestaande hulpbronne binne die gebied beter benut ten opsigte van grootmaatinfrastruktuur, paaie en vervoer en sodoende sosiale fasiliteite optimaliseer.*
- *Hierdie aansoek promoveer 'n diverse kombinasie van grondgebruike op 'n vlak van individuele erwe.*
- *Hierdie aansoek die fenomeen van stedelike spreiding ontmoedig en bydra tot die ontwikkeling van meer kompakte dorpe.*
- *Die aansoek tot die optimalisering van die gebruik van bestaande infrastruktuur lei en die oorskryding van behoeftes aanspreek.*

- Hierdie aansoek tot die regstelling van historiese verwronge ruimtelike vestigingspatrone in die Republiek bydra en dus die bestaande infrastruktuur van die direkte omgewing beter benut.
- Omgewingshoudbare grondontwikkelingspraktyke en -prosesse aanmoedig deur die benutting van bestaande geboue binne die dorp.

2. BEPLANNINGSOORWEGINGS

2.1 LIGGING VAN DIE TERREIN

Keimoes dien as belangrike ekonomiese nodus in die Kai !Garib Munisipaliteit wat veral die meer oostelike dele van die regsgebied bedien. Die dorp is geleë sowat 40km suid-wes van Upington en 40km oos van Kakamas op die N14 en R27 hoofroetes wat die vermeldde gebied verbind.

Erf 666, Keimoes, vorm deel van die dorp se meent, met die grootste deel van die erf aan die noorde van Keimoes. Die betrokke dele (aansoekgebied) van die erf kan egter direk oos van die noord-westelike woongebiede van Keimoes gevind word en is maklik toeganklik vanaf enige deel van die dorp.

'n Duidelike uiteensetting van die ligging van die aansoekgebied kan gesien word op meegaande figure 1-5, sowel as foto's wat deel uitmaak van hierdie verslag.

2.2 FISIOGRAFIE

Kortliks word daar na die fisiografie van die betrokke gebied gekyk.

▪ Topografie

Die aansoekgebied se uitgestrekte natuur het tot gevolg dat dit 'n komplekse en variërende topografie het. Die area word gekenmerk deur twee hoogtes in die sentrale en noordelike dele vanwaar 'n gemiddelde afwaartse gradiënt van 1:30 in verskillende rigtings gevind word. Hierdie gradiënt plat by sekere dele af tot 1:50 en kan by die koppe se spitse selfs tot by 1:15 styg. Die aansoekgebied word gekenmerk deur 'n groot waterafloop vanuit 'n noord-oostelike rigting, wat in die uitleg binne oopruimtes en die bestaande begraafplaas geakkommodeer sal word. Aan die oostelike kant van die aansoekgebied word daar ook 'n groot suidwaarts vloeiende sloot aangetref en sal die uitleg buite hierdie gebied bly. Buiten die bovermelde faktore word daar ook enkele gruisgate en klip-hope aangetref wat deur mense geskep is. Dit word aanbeveel dat hierdie verskynsels deur grondwerke reggestel word ten einde 'n verwronge ruimtelike vorm te voorkom. Die groot massa klippe wat suid-wes, binne die waterafloop gestort is, se omvang is so groot dat dit binne 'n oopruimte geakkommodeer sal word binne die nuwe uitleg. Dit word egter aanbeveel dat hierdie gedeelte in die toekoms gerehabiliteer word om die gemeenskap te dien en dat soortgelyke stortings op 'n meer georganiseerde basis hanteer word. Die groter dele van die aansoekgebied kan egter as geskik vir normale dorpsontwikkeling beskou word.

Figuur 1
Liggingsplan:
Streek



Aansoekgebied



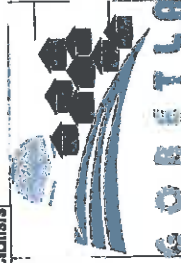
MACROPLAN
Scale & Street Planners
Town & Regional Planners

Private
Partners
1987

Tel 051 4 922 500



**Spatial Designs
Land Use Specialists**



UIKAIKEI/01

1:60 000

Julie 2010

Len Fourie
J. Treurnich



Figuur 2
Liggingsplan:
Plaaslik



Aansoekgebied

MACROPLAN
Stads- & Streekbeplanners
Town & Regional Planners



**Spatial Designs
Land Use Specialists**



UKAI/KEI/02

SKEMMER	Len Fourie
DESIGNER	J. Treurnich
DRAAI	MAR-2010
SKALA	1:20 000
DATUM	Julie 2010



■ **Geologie en Bodemgesteldheid**

Die dieperliggende geologiese formasie van die gebied bestaan hoofsaaklik uit gneis, graniet en kwartsiet van die Namakwaland Mobiele Gordel wat plek-plek deur kwarts en veldspaat pegmatiete versteur is. Die oppervlakte grond bestaan hoofsaaklik uit verweerde gneis met 'n konsentrasie van kwartsiet sande in die natuurlike dreineringsbane. In die algemeen kan die geologie en bodemgesteldheid van die studiegebied as hard, maar tipies van die streek en geskik vir normale ontwikkeling gesien word. Die bestaande ontwikkeling op die aansoekgebied bevestig hierdie feit.

■ **Natuurlike plantegroei**

Die aansoekgebied vorm deel van die area direk noord-oos van die bestaande woongebiede van Keimoes. Gemelde area is ideaal geleë vir uitbreiding en sal die toekomstige integrasie doelwitte van die Raad aanspreek. Die ligging van die area het tot gevolg gehad dat die areas reeds in die verlede deur ontwikkeling en menslike bedrywighede (meent beweidings) versteur is. Gevolglik word geen bewaringswaardige fauna en flora op die aansoekgebied aangetref nie en word daar verwag dat die ontwikkeling normaal sal voortgaan. Die omvang van die ontwikkeling vereis egter dat 'n omgewingsimpakstudie geloods word en die ontwikkeling sal dus onderhewig wees aan die goedkeuring hiervan.

2.3 OORHOOFSE BEPLANNING

Alle beplande ontwikkeling is in die verlede gemeet aan die voorstelle wat vervat is in die Gidsplan, Struktuurplan, Behuisings- en Verdigtingstrategie en nou die Geïntegreerde Ontwikkelings Plan (GOP). Die Munisipaliteit van Kai !Garib het geen formele ruimtelike ontwikkelingsraamwerkplan (ROP) nie en dus kan die aansoek nie hiervolgens evalueer word nie.

2.4 KARAKTER VAN DIE OMGEWING

Keimoes funksioneer as belangrike ekonomiese kern binne die Kai !Garib regsgebied en word gevolglik gekenmerk deur 'n groot verskeidenheid grondgebruike wat manifesteer in 'n sterk industriële gebied in die noord-weste, 'n sake kern in die sentraal suidelike gebied en uitgebreide woongebiede rondom hierdie gebruike.

Die aansoekgebied is in die noord-westelike dele van Keimoes geleë, wat grootliks in die sub-ekonomiese ontwikkelingskategorie val. Hierdie aansoek behels egter 'n kombinasie van 'n sub-ekonomiese behuisingsprojek met 'n ekonomiese erf komponent en sal dus goed aansluit by hierdie bestaande stedelike struktuur in die gebied.

Sien ook meegaande Figuur 3 vir 'n uittreksel uit die plaaslike soneringsplan van Kai !Garib, sowel as meegaande foto's van die area.

Figuur 3
Uittrekset:
Soneringsplan

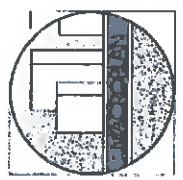
Sonerings

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----

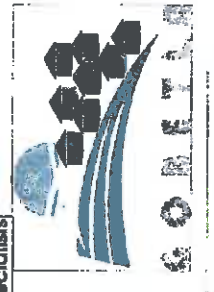
Aansoekgebied

MACROPLAN
Stads- & Streetbeplanners
Town & Regional Planners

Postbus 877
Lidzmann
6800
Tel: 054 - 333 3542



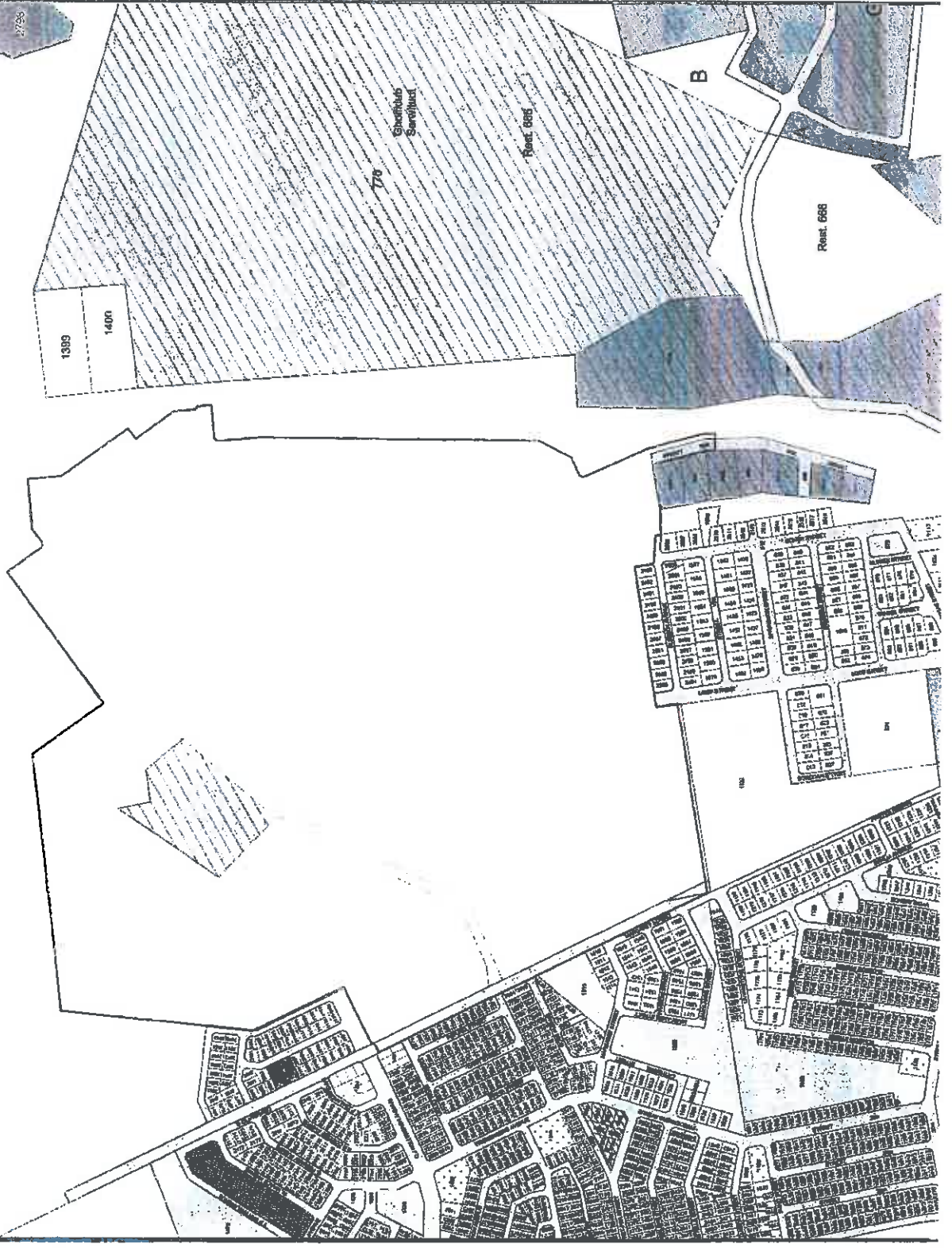
Spatial Designs
Land Use Specialists



LIJKA/KEI/03

ONTWERP: Len Fouts
BELEGGER: J. Treurnich

1:10000
JULIE 2010





Figuur 4: Algemene Grondgebruiksgebiede in Keimoes

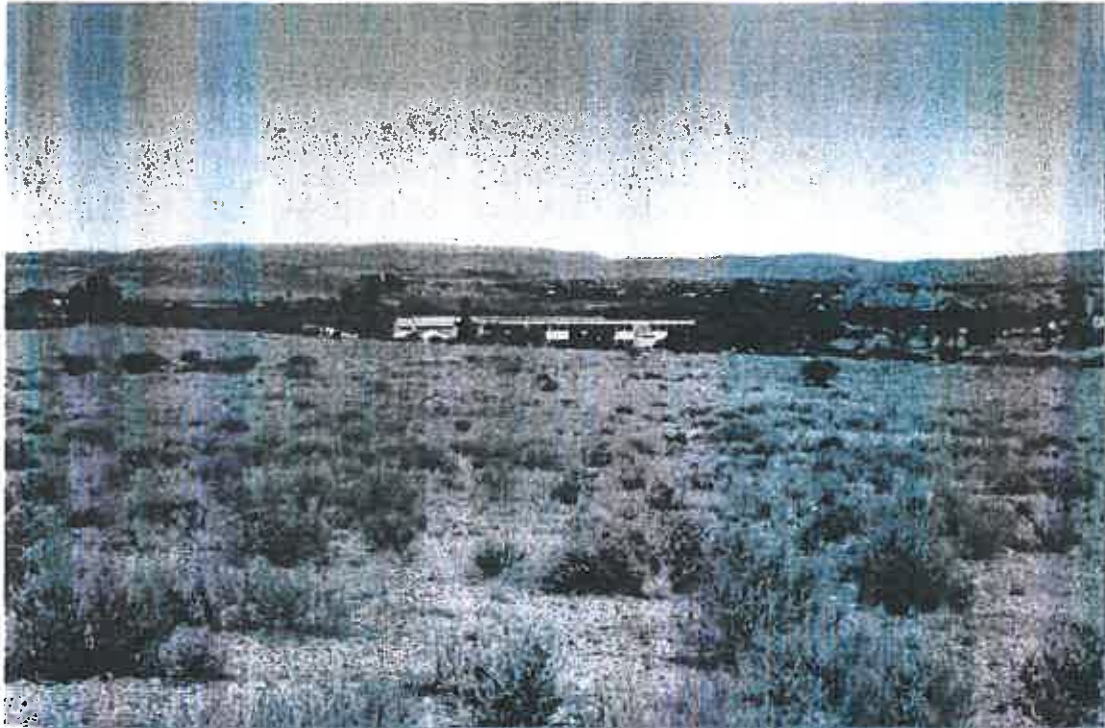


Foto 1: Die suidelike dele van die aansoekgebied, soos gesien vanuit 'n noordelike rigting, met die bestaande ontwikkelings van Keimoes sigbaar in die agtergrond. Die aansoek behels die algemene noordwaartse residensiële uitbreiding van die dorp.

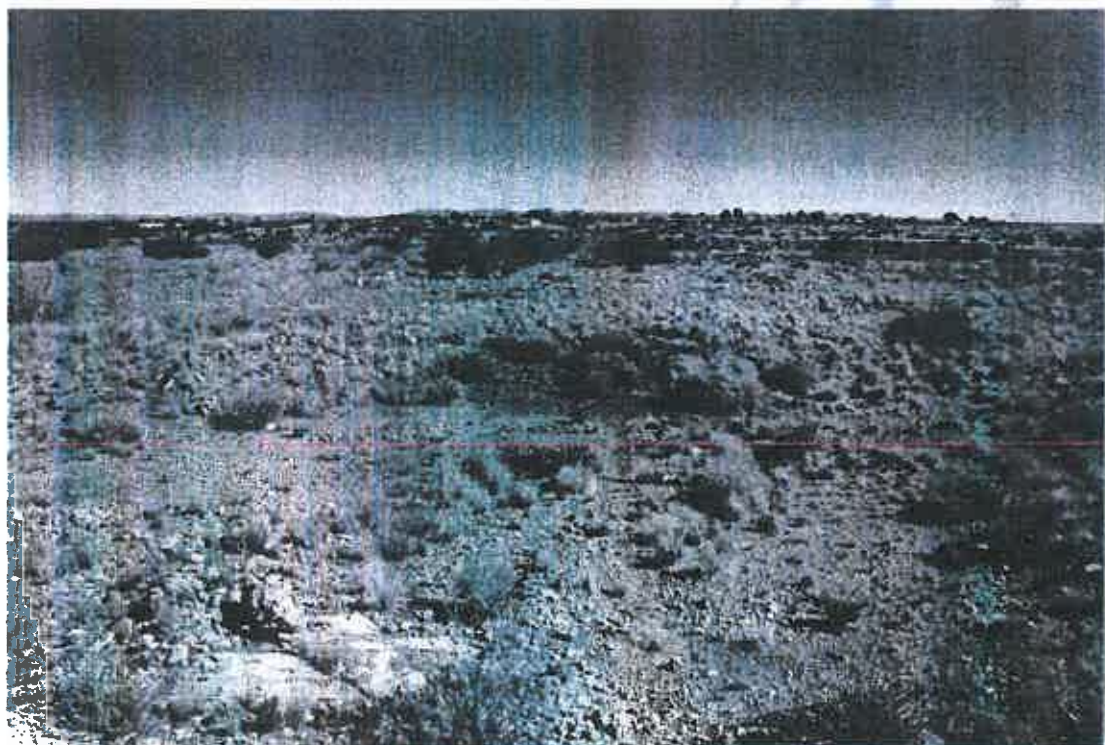


Foto 2: Die westelike dele van die aansoekgebied, soos gesien vanuit 'n suid-oostelike rigting, met die noord-westelike woongebiede van Keimoes sigbaar in die agtergrond. Die laagtepunt op die voorgrond van die foto sal in die toekoms gerehabiliteer word as deel van die beplande sirkelroete in die uitleg (Sien figuur 5).

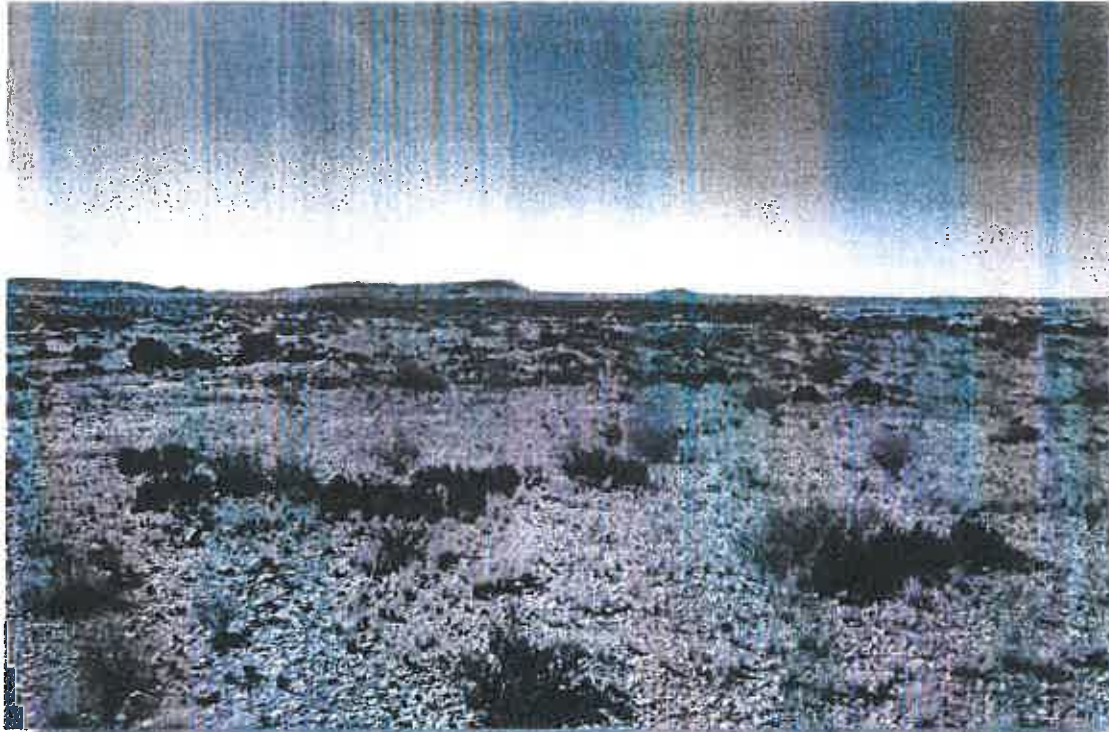


Foto 3: Die aansoekgebied se noord-oostelike dele, soos gesien vanuit 'n suid-westelike rigting. Die eiendomme hier sal ook grotendeels residensiële van aard wees, met gemiddelde oppervlakte wat wissel tussen 330m² tot 360m².

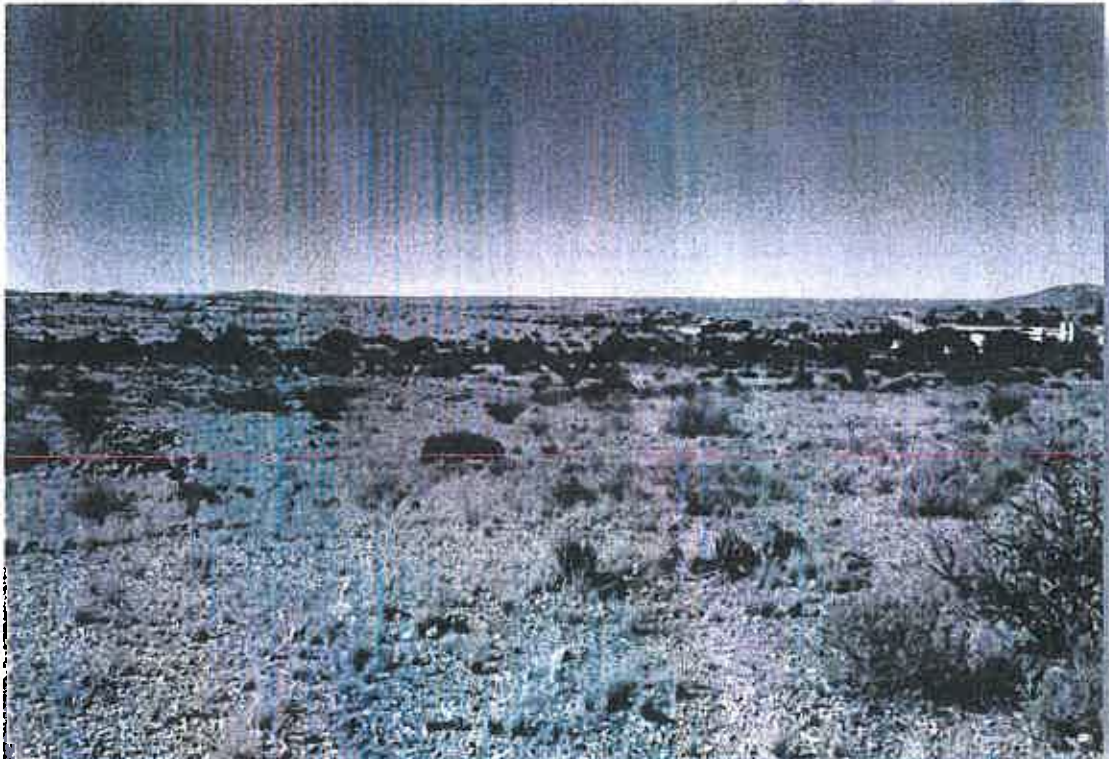


Foto 4: Die suid-oostelike dele van die aansoekgebied, soos gesien vanuit 'n noord-oostelike rigting met die groen strook wat die groot suidwaarts vloeiende stormwatersloot aandui. Hierdie deel van die aansoekgebied sal ontwikkel word tot groter residensiële erwe met groottes wat wissel tussen 640m² en 680m².

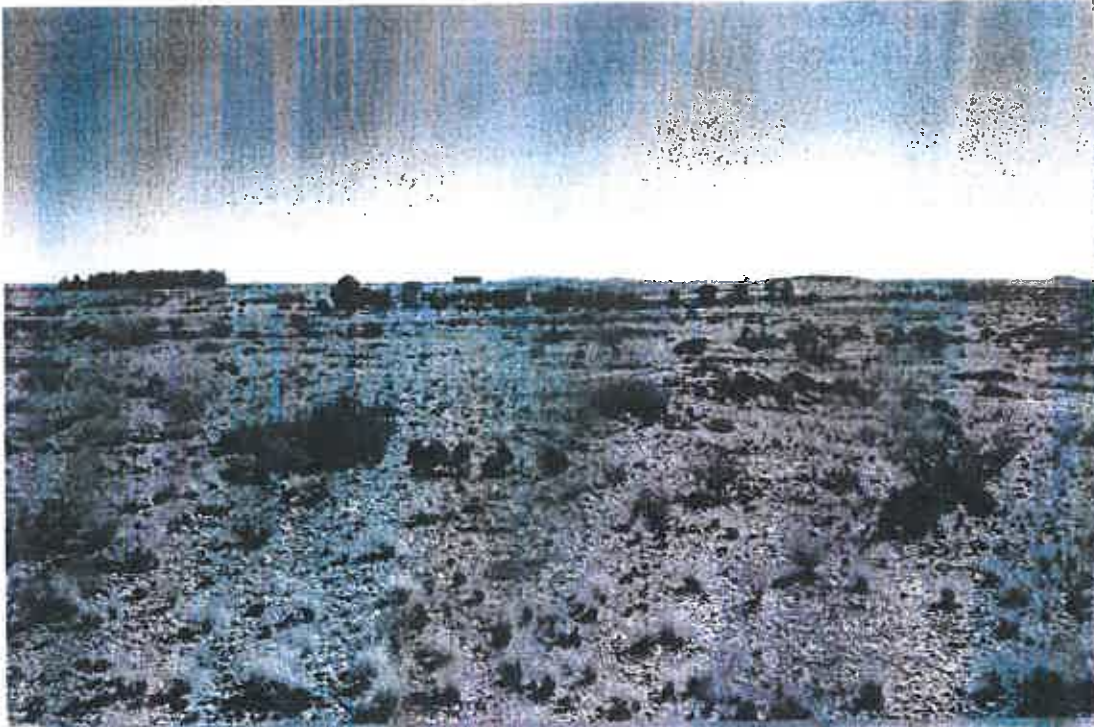


Foto 5: Die noordelike dele van die aansoekgebied, soos gesien vanuit 'n suidelike rigting, met die bestaande begraafplaas sigbaar in die agtergrond. Die area op die voorgrond sal benut word vir residensiële uitbreiding, terwyl die area rondom die begraafplaas grotendeels benut sal word vir die uitbreiding daarvan.



Foto 6: Die pad na die begraafplaas (begraafplaas regs van die foto), soos gesien vanuit 'n noord-oostelike rigting. Hierdie pad sal behou word en binne die uitleg geformaliseer word om aan te sluit by Lilystraat in die weste. Daar word verwag dat hierdie pad groot volumes verkeer sal dra en gevolglik opgradeer moet word.

Sub-Ekonomiese Residensiële Uitbreiding van Keimoes, Kai !Garib Munisipaliteit



Foto 7: Die aansoekgebied, soos gesien vanuit 'n oostelike rigting, met die noord-westelike woongebiede op die agtergrond sigbaar. In die middel van die foto kan 'n hoop gestorte klippe gesien word, wat vir die doeleindes van hierdie ontwikkeling verwyder moet word.



Foto 8: Die laerliggende dele van die aansoekgebied, waar die groot stormwater vanuit die noord-ooste gevind kan word. Die opgehoopde rommel binne die sloot is duidelik op die foto sigbaar en dit word voorgestel dat hierdie deel (wat as oopruimte beplan word) mettertyd gerehabiliteer word.



Foto 9: Die noord-westelike dele van die aansoekgebied, soos gesien vanuit 'n suid-westelike rigting. Hierdie deel van die aansoekgebied sal ontwikkel word tot residensiële erwe tesame met 'n besigheidspersaal wat die buurt kan bedien.



Foto 10: C.J. Hollenbachlaan, soos gesien vanuit 'n noord-oostelike rigting. Hierdie pad sal verleng word (30m padreserwe) oor die aansoekgebied in 'n sirkel roete en aan die suid-oostelike kant van die aansoekgebied.

2.5 INFRASTRUKTUURDIENSTE

• Watervoorsiening

Kai IGarib Munisiplaiteit sal self verantwoordelik wees vir die voorsiening van grootmaat infrastruktuur om te verseker dat die nuwe uitbreidings van water voorsien word.

• Padnetwerk

Die aansoekgebied word aan die westelike kant deur 'n reeds bestaande pad begrens, wat deel vorm van D. Olivierweg in die noorde en Margaretstraat in die suide. Verder is daar ook belangrike verbindings tot die aansoekgebied via, Loopstraat in die suide en C.J. Hollenbachlaan en Lilystraat in die weste. Die paaie in Keimoes wissel tussen grond- en teerstrate en dit sal belangrik wees dat die nodige opgraderings gedoen word waar dit nodig blyk te wees.

Sien 3.3 vir 'n detail beskrywing van die beplande padnetwerk, soos dit met goedkeuring daarna sal uitsien.

• Rioolwegdoening

Die Kai IGarib Munisiplaiteit voorsien Keimoes reeds van 'n spoelrioolstelsel en dit word voorsien dat die nuwe uitbreiding ook sal inskakel hierby. Die Plaaslike Owerheid sal egter self verantwoordelik wees vir die daarstelling van grootmaat infrastruktuur en die inskakeling van die nuwe ontwikkeling.

• Stormwater

Stormwaterdreinerings geskied merendeels bogronds en in die strate van die omgewing, vanwaar dit weggevoer word na lokale stormwaterslote. Daar is reeds verwys na die groot stormwatersloot wat vanuit die noord-ooste vloei wat binne oopruimtes geakkommodeer sal word om oorstromings te voorkom en geen probleme word hiermee voorsien nie. Die kleiner stormwaterslote sal egter binne die strate gekanaliseer kan word, maar dit sal belangrik wees dat die oppervlaktes van hierdie paaie aandag sal geniet.

• Elektrisiteit

Hierdie diens word reeds deur Kai IGarib Munisiplaiteit aan Keimoes en die omliggende woongebiede voorsien. Dit word voorsien dat hierdie diens verder uitgebrei sal word na die beplande uitbreidings as deel van die Plaaslike Owerheid se verantwoordelikheid.

2.6 GROOTTE, SONERING EN REGULASIES

Die aansoekgebied bestaan uit drie aparte eiendomme wat as volg beskryf kan word:

- Erf 666, Keimoes: 767.0527ha Onbepaald

Hierdie aansoek het ten doel om die aansoekgebied te onderverdeel in 1237 nuwe grondeenhede en te hersoneer tot verskeie sonerings, verwant aan woongebied uitbreiding. Die presiese sonerings, oppervlaktes en gemiddeldes van die beplande erwe word onder 3.3 van hierdie verslag bespreek. Sien Figure 3 en 5 vir verdere detail in hierdie verband.

Sub-Ekonomiese Residensiële Uitbreiding van Keimoes, Kai IGarib Munisiplaiteit

2.7 GEVOLGTREKING

Tydens die oorweging van hierdie aansoek is dit belangrik om die volgende gevolgtrekkings rakende hierdie ontwikkeling in gedagte te hou. Dit sluit die volgende in:

- dat daar 'n behoefte bestaan vir die residensiële uitbreiding van Keimoes;
- dat hierdie aansoek goed inskakel by die bestaande karakter van die omgewing;
- hierdie ontwikkeling die ontwikkelingspotensiaal van die gebied verder kan verhoog en dat dit in die groeiende behuisingsbehoefte in die omgewing sal voorsien;
- die gebied wat beoog word vir die ontwikkeling, gunstig geleë is ten opsigte van bestaande infrastruktuur, maar dat uitbreiding van dienste wel nodig sal wees.
- die fisiografie geskik is vir die beoogde ontwikkeling.
- die aansoek voldoen aan die beginsels soos uiteengesit in Hoofstuk 1 van die Noord-Kaapse Wet op Ontwikkeling en Beplanning (Wet 7 van 1998);
- die aansoek voldoen aan die beginsels soos uiteengesit in Artikel 3 van die Wet op Ontwikkelingsfasilitering (Wet 67 van 1995);

3. VOORGESTELDE HERSONERING EN ONDERVERDELING

3.1 BEPLANNINGSBENADERING

Tydens die oorweging van die ligging van die beplande grondgebruike op die eiendom, is die volgende aspekte in oorweging geneem:

- Die ontwikkeling sal inskakel by die bestaande padnetwerk van die omgewing om 'n sinvolle ruimtelike struktuur te bewerkstellig.
- Die ontwikkeling nie die natuurlike karakter van omgewing negatief moet beïnvloed nie.
- Dat stormwaterslote en die algemene topografie van die aansoekgebied op 'n sinvolle wyse binne die uitleg geakkommodeer moet word.
- Dat enige ongeformaliseerde strukture wat na die aanvang van die area se ontwikkelingsbeplanning opgerig is, verskuif sal moet word.
- Dat enige voorwaardes soos moontlik gestel deur die Kai I Garib Munisipaliteit, aan voldoen sal word.

3.2 PUBLIEKE DEELNAME

Die inset van die gemeenskap sal verkry word tydens die advertensie tydperk. Die normale prosedure behels:

1. Kennisgewing geplaas in plaaslike koerant (Die Gemsbok) vir 'n periode van 21 dae.
2. Kennisgewing geplaas op die aansoekgebied vir dieselfde periode as in die plaaslike koerant.

3. 'n Maandlikke verdere vergadering met die onderskeie wykskomitees, indien versoek.

3.3 VOORGESTELDE GRONDGEBRUIKE

Die aansoek behels die hersonering en onderverdeling van die aansoekgebied ten einde 'n uitbreiding van woongebiede maandelik te maak. Die verskeie nuwe grondgebruike sal die volgende behels:

RESIDENSIËLE SONE I

Aanduiding op kaart: kleur - geel.

Primêre gebruik/e: woonhuis

'n gebou wat slegs een wooneenheid bevat - 'n selfstandige intertoeganklike groep kamers, slegs vir die woonakkommodasie en huisvesting van 'n enkelgesin, of 'n maksimum van 4 persone wat nie aan die omskrywing van 'n "gesin" voldoen nie, tesame met sodanige buitegeboue soos wat normaalweg daarmee gebruik word

Binne die voorgestelde uitlegplan word daar voorsiening gemaak vir 1212 erwe met hierdie sonering (ekonomiese en sub-ekonomiese enkel residensiële wooneenhede), met 'n gemiddelde oppervlak van 414m² per erf. Hierdie sonering sal in totaal 50.1ha van die aansoekgebied beslaan, wat 46.1% van die area verteenwoordig.

SAKESONE I

Aanduiding op kaart : kleur - blou.

Primêre gebruik/e : sakegebou

'n perseel en/of gebou of deel daarvan wat gebruik word of beoog word om gebruik te word as winkels en/of kantore en omvat dit hotelle, restaurante, droogskoonmakerye, finansiële instellings, professionele kantore, vergaderplekke, spreekkamers van geneeshere, effekte- of produkte-beurse, set-setbaan, woonstelle bo die grondverdieping en geboue vir dergelike gebruik, maar omvat dit nie 'n drankwinkel, taverne, casino, volwasse vermaak, vermaaklikheidsplekke, institusionele geboue, lykbesorgertokale, openbare garages, diensstasies, herstel- of verwante vervangingsfunksies, nywerheidsgeboue, hinderbedryf, swaarvoertuig oornagteriewe of enige groothandelsaak nie

Binne die voorgestelde uitlegplan word daar voorsiening gemaak vir 1 erf met hierdie sonering. Hierdie erf sal in totaal 2.3ha van die aansoekgebied beslaan, wat 2.1% van die totale aansoekgebied verteenwoordig.

SAKESONE II

Aanduiding op kaart : kleur - blou met swart arsering.

Primêre gebruik/e : winkel

'n perseel en/of gebou en/of struktuur wat gebruik word vir die bedryf van 'n kleinhandelsaak, en kan 'n kleinwassery, kantore, kwekery, restaurant, 'n kleindroogskoonmakery, woonstello bo die grondverdieping en 'n kleinhandelsaak waar goedere wat in sodanige saak verkoop, vervaardig en/of herstel word, omvat; met dien verstande dat die vloeroppervlakte wat verband hou met sodanige vervaardiging en/of herstel, hoogstens een derde van die vloeroppervlakte van die winkel sal wees, maar omvat dit nie enige nywerhede, openbare garage, diensstasie, taverne, supermark (met of sonder wynverkope) of drankwinkel nie;

Binne die voorgestelde uitlegplan word daar voorsiening gemaak vir 3 erwe met hierdie sonering met 'n gemiddelde oppervlak van 1815m² per erf. Hierdie sonering sal in totaal 0.5ha van die aansoekgebied beslaan, wat 0.5% van die area verteenwoordig.

INSTITUSIONELE SONE I

Aanduiding op kaart: kleur - ligblou

Primêre gebruik/e: onderrigplek

'n skool, kollege, tegniese instituut, akademie, universiteit, lesingsaal of ander onderwys-sentrum, en omvat dit 'n koshuis wat daarby hoort en 'n klooster, openbare biblioteek, kunsgalery, museum, gimnasium en bewaarskool, maar omvat nie 'n gebou wat geheel en al of hoofsaaklik as 'n gesertifiseerde verbeteringskool of nywerheidskool of as 'n skool vir verstandelike gestremdes gebruik word of beoog word om gebruik te word nie

Binne die voorgestelde uitlegplan word daar voorsiening gemaak vir 2 erwe met hierdie sonering (Crèche) met 'n gemiddelde oppervlak van 2789m². Hierdie sonering sal in totaal 0.6ha van die aansoekgebied beslaan, wat 0.5% van die area verteenwoordig.

INSTITUSIONELE SONE II

Aanduiding op kaart : kleur - swart kruise

Primêre gebruik/e : openbare bedehuis

'n kerk, sinagoge, moskee, tempel, kapel of ander plek vir godsdienstebeoefening. Dit omvat ook enige gebou in verband daarmee soos byvoorbeeld 'n saal, Sondagskoolklasse of pastorie, maar omvat nie lyksbesorgingslokale met inbegrip van kapelle wat deel uitmaak van sulke lokale nie

Binne die voorgestelde uitlegplan word daar voorsiening gemaak vir 6 erwe met hierdie sonering (kerke) met 'n gemiddelde oppervlak van 2618m² per erf. Hierdie sonering sal in totaal 1.6ha van die aansoekgebied beslaan, wat 1.5% van die area verteenwoordig.

OOPRUIMTE SONE I

Aanduiding op kaart : kleur - groen

Primêre gebruik/e : openbare oopruimtes

enige grond wat in besit van die plaaslike owerheid is of gaan kom, nie op langtermyn verhuur word of gaan word nie, en aangewend word of gaan word deur die publiek as 'n oopruimte, park, tuin, speelterrein, ontspannings-terrein, piekniekterrein of plein, hetsy dit ook op 'n goedgekeurde algemene plan verskyn, al dan nie

Binne die voorgestelde uitlegplan word daar voorsiening gemaak vir 10 erwe met hierdie sonering. (parke) met 'n gemiddelde oppervlak van 6904m² per erf. Hierdie sonering sal in totaal 6.9ha van die aansoekgebied beslaan, wat 6.3% van die area verteenwoordig.

OOPRUIMTE SONE II

Aanduiding op kaart : kleur - groen met swart arsering

Primêre gebruik/e : privaat oopruimte

enige grond wat in hierdie skema afgesonder word vir gebruik as 'n private terrein vir sport-, speel-, rus- en ontspanningsdoeleindes of as 'n slertuin of lushof, mits die grond onder die langtermynbeheer van 'n private persoon of instansie is, asook 'n begraafplaas of skougronde hetsy openbaar of privaat

Binne die voorgestelde uitlegplan word daar voorsiening gemaak vir 1 erf (begraafplaas) met hierdie sonering. Hierdie erf sal in totaal 18.7 ha van die aansoekgebied beslaan, wat 17.2% van die totale aansoekgebied verteenwoordig.

VERVOERSONE II

Aanduiding op kaart : kleur - liggrys

Primêre gebruik/e : openbare straat

enige grond wat op 'n plan of diagram aangedui of binne hierdie soneringskema gespesifiseer is as opsy gesit vir straatdoeleindes en waarvan die eiendomsreg by 'n bevoegde owerheid berus en sluit enige geriewe vir openbare vervoer in

Binne die voorgestelde uitlegplan word daar voorsiening gemaak vir 1 erf (publieke pad) met hierdie sonering. Hierdie erf sal in totaal 27.8 ha van die aansoekgebied beslaan, wat 25.5% van die totale aansoekgebied verteenwoordig.

Hierdie sonering verteenwoordig die beplande dorpsuitbreiding se padnetwerk wat daargestel word om toegang aan elke individuele erf te voorsien. Die breedtes van die beplande straatreserwes wissel tussen 30m en 11m, proporsioneel tot die hiërargiese orde daarvan. Die belangrikste roetes deur die ontwikkelingsgebied is 'n 30m breë sirkelroete wat sal dien as verlenging van C.J. Hollenbachlaan, tesame met

Sub-Ekonomiese Residensiële Uitbreiding van Keimoes, Kai IGarib Munisipaliteit

die noord-ooswaartse verengings van Lilystraat en Loopstraat onderskeidelik (25m breed). Hierdie paaie word so breed ontwerp siende dat hoër verkeersvolumes hier verwag word, as gevolg van hul arteriële natuur. Vanuit hierdie paaie sal 'n verskeidenheid laer orde toegangspaaie spruit om toegang tot individuele erwe te verleen. Die beplande padnetwerk is uiteengesit ten einde suksesvol te skakel met die bestaande woongebiede van Keimoes en dorp as geheel. Verder is die daar ook aandag gegee aan die skep van geleenthede vir die skakeling van die aansoekgebied met enige toekomstige uitbreidings.

OWERHEIDSONE I

Aanduiding op kaart : kleur - rooi

Primêre gebruik/e : owerheidsgebruik

'n gebruik wat deur die plaaslike owerheid beoefen word en waarvan die omvang daarvan sodanig is dat dit nie onder ander gebruike in hierdie regulasies geklassifiseer of omskryf kan word nie soos bv. brandweerdienste, motor-toetsentrum of enige dienste-installasie soos kragstasies, rioolwerke, vuilisstortingsterrein, reservoïrs, substasies, ens.

Binne die voorgestelde uitlegplan word daar voorsiening gemaak vir 1 erf met hierdie sonering. Hierdie erf sal in totaal 0.3 ha van die aansoekgebied beslaan, wat 0.3% van die totale aansoekgebied verteenwoordig.

4. AANBEVELING

Uit hoofde van die voorafgaande bespreking blyk dit dat die voorgestelde **hersonering en onderverdeling van die aansoekgebied** ('n gedeelte van die Restant van Erf 666, Keimoes) wenslik is.

4.1 GOEDKEURING VAN DIE AANSOEK

Die **Munisipaliteit Kai !Garib** word derhalwe versoek om:

- i Die aansoek om hersonering en onderverdeling ingevolge die Noord-Kaapse Wet op Ontwikkeling en Beplanning (Wet 7 van 1998) te adverteer. **Gemelde advertensies sal deur hierdie kantoor behartig word en die bewyse daarvan sal aan die Munisipaliteit gelewer word, alvorens 'n finale besluit geneem kan word.**
- ii Die aansoek tot hersonering en onderverdeling ingevolge die Noord-Kaapse Wet op Ontwikkeling (Wet 7 van 1998) en Beplanning goed te keur.

BYLAAG A
Brief van Aanstelling

Munisipaliteit Kai !Garib Municipality

11 de Laan
Tel (054) 431 6300
Faks (054) 431 6301
E-Pos:
admin@kaigarib.co.za



11Th Avenue
Tel (054) 431 6300
Fax (054) 431 6301
E-Mail:
admin@kaigarib.co.za

Privaatsak X6
KAKAMAS
8870

Mr. JWA Kotzee
Deals with this matter

Private Bag X6
KAKAMAS
8870

27 Augustus 2009

Our Ref.: 14.1.9
Your Ref.: 90824uit

Mnre. MACROPLAN
Posbus 978
UPINGTON
8800

VIR AANDAG: Meneer Len J Fourie TRP(SA)

RESIDENSIËLE UITBREIDING TE KAI !GARIB MUNISIPALE GEBIED

Die Raad het tydens hul vergadering gehou op 20 Augustus 2009 besluit dat u formeel aangestel word vir die hantering van die beplanning van residensiële gebiede te Kai !Garib waarmee reeds ver gevorder is. Die opdrag sluit die volgende komponente in:

- Beplanning en finalisering (insluitend aansoek om grondgebruikverandering ingevolge Wet 7 van 1998) van ongeveer 1200 sub-ekonomiese en 200 ekonomiese erwe te Keimoes.
- Beplanning en finalisering (insluitend aansoek om grondgebruikverandering ingevolge Wet 7 van 1998) van ongeveer 750 sub-ekonomiese erwe en 150 ekonomiese erwe te Kakamas.
- Beplanning en finalisering (insluitend aansoek om grondgebruikverandering ingevolge Wet 7 van 1998) van ongeveer 200 sub-ekonomiese erwe te Kenhardt.
- Beplanning en finalisering (insluitend aansoek om grondgebruikverandering ingevolge Wet 7 van 1998) van ongeveer 150 sub-ekonomiese erwe te Lennertsville.
- Beplanning en finalisering (insluitend aansoek om grondgebruikverandering ingevolge Wet 7 van 1998) van ongeveer 400 sub-ekonomiese erwe vir Augrabies.
- Beplanning en finalisering (insluitend aansoek om grondgebruikverandering ingevolge Wet 7 van 1998) van ongeveer 100 sub-ekonomiese erwe vir Marchand. Dit sluit die ondersoeke en besprekings rakende die moontlike grond ook in.

- Beplanning en finalisering (insluitend aansoek om grondgebruikverandering ingevolge Wet 7 van 1998) van ongeveer 100 sub-ekonomiese erwe vir Alheit.
- Beplanning en finalisering (insluitend aansoek om grondgebruikverandering ingevolge Wet 7 van 1998) van ongeveer 100 sub-ekonomiese erwe vir Cillie, sowel as die formalisering van sowat 50 informele huise aan die westelike kant van Cillie.
- Beplanning en finalisering (insluitend aansoek om grondgebruikverandering ingevolge Wet 7 van 1998) van ongeveer 5 informele erwe vir Lutzburg, sowel as die bespreking van moontlike uitbreidings van die dorp (moontlike sentrale gedeelte) met die plaaslike Raadslid. Die behoefte van Lutzburg sal afhang van die hoeveelheid grond beskikbaar in die onmiddellike omgewing. Dit sluit die ondersoek en besprekings rakende die moontlike grond ook in.
- Die ondersoek, beplanning en gesprekvoering met rolspelers vir die moontlike dorpsstigting te Blaauwskop. Dit sluit in die volledige proses wat gepaard gaan met dorpsstigting.

Ons vertrou dat u genoemde in orde vind.

By voorbaat dank.

Die uwe



J MAC KAY
MUNISIPALE BESTUURDER

BYLAAG B
Akte Navrae

Property	Owner	Deed/Document	LPI Enquiry	Interdict	Document Request	Transfers	Bulk Properties	User Admin	Billing	
Property Enquiry Details										



Property enquiry results for "Keimoes" in the Deeds Registry at "VRYBURG"

Property detail:

Deeds registry	VRYBURG
Property type	ERF
Township	KEIMoes
Erf number	666
Portion	0 (REMAINING EXTENT)
Province	NORTHERN CAPE
Registration division/Administrative district	GORDONIA RD
Local authority	KAI GARIB MUNICIPALITY
Previous description	-
Diagram deed number	G16/1942
Extent	767.0527 SQM
LPI Code	C02800060000066600000

Title Deeds detail:

Document	Registration date	Purchase date	Amount	Microfilm reference	Document copy?
G16/1942	19420930	-	T/T	-	Not available

Owners detail:

Document	Full name	Identity Number	Share	Person Enquiry?
G16/1942	KAI GARIB MUNICIPALITY	-	-	<u>Yes</u>

Endorsements / Encumbrances:

Endorsement / Encumbrance	Holder	Amount	Microfilm reference	Document copy?
K42/1942RM	-	-	-	Not available
K74/1978S	-	-	-	Not available
VA209/2005	ESKOM HOLDINGS LTD	-	-	Not available
KAART NR OD 4305	-	-	-	Not available
VORIGE GROOTTE	1,1925HA	-	-	Not available

NOW SUBDIVISION	TOWN KEIMOES ,ERF 1138 ,PRTN 0	-	-	Not available
NOW SUBDIVISION	TOWN KEIMOES ,ERF 1139 ,PRTN 0	-	-	Not available
NOW SUBDIVISION	TOWN KEIMOES ,ERF 1140 ,PRTN 0	-	-	Not available
NOW SUBDIVISION	TOWN KEIMOES ,ERF 1141 ,PRTN 0	-	-	Not available
NOW SUBDIVISION	TOWN KEIMOES ,ERF 1142 ,PRTN 0	-	-	Not available
NOW SUBDIVISION	TOWN KEIMOES ,ERF 1143 ,PRTN 0	-	-	Not available
NOW SUBDIVISION	TOWN KEIMOES ,ERF 1144 ,PRTN 0	-	-	Not available
NOW SUBDIVISION	TOWN KEIMOES ,ERF 1145 ,PRTN 0	-	-	Not available
NOW SUBDIVISION	TOWN KEIMOES ,ERF 2809 ,PRTN 0	-	-	Not available
NOW SUBDIVISION	TOWN KEIMOES ,ERF 2837 ,PRTN 0	-	-	Not available
NOW SUBDIVISION	TOWN KEIMOES ,ERF 2804 ,PRTN 0	-	-	Not available
NOW SUBDIVISION	TOWN KEIMOES ,ERF 2580 ,PRTN 0	-	-	Not available
NOW SUBDIVISION	TOWN KEIMOES ,ERF 2805 ,PRTN 0	-	-	Not available
NOW SUBDIVISION	TOWN KEIMOES ,ERF 2852 ,PRTN 0	-	-	Not available
NOW SUBDIVISION	TOWN KEIMOES ,ERF 2856 ,PRTN 0	-	-	Not available
NOW SUBDIVISION	TOWN KEIMOES ,ERF 2872 ,PRTN 0	-	-	Not available
NOW SUBDIVISION	TOWN KEIMOES ,ERF 2802 ,PRTN 0	-	-	Not available
NOW SUBDIVISION	TOWN KEIMOES ,ERF 2136 ,PRTN 0	-	-	Not available
NOW SUBDIVISION	TOWN KEIMOES ,ERF 2579 ,PRTN 0	-	-	Not available
NOW SUBDIVISION	TOWN KEIMOES ,ERF 2871 ,PRTN 0	-	-	Not available
NOW SUBDIVISION	TOWN KEIMOES ,ERF 2869 ,PRTN 0	-	-	Not available

History:

Document	Holder	Amount	Microfilm reference	Document copy?
----------	--------	--------	------------------------	-------------------

G16/1942	KAI GARIB MUNICIPALITY	-	-	Not available
T3927/2007	LOSPER ELIZABETH	R15052.00	-	Not available

[Back to top of page](#)

Requested by **40901** with user reference **None** on: Monday, 20 June 2011 15:53

DeedsWeb Version 4.0.1

Copyright © 2001-2009, Chief Registrar of Deeds.

BYLAAG C
Figuur 5: Uitlegplan

APPENDIX D (2)

Business Plan

KAI !GARIB MUNICIPALITY

BUSINESS PLAN

FOR

KEIMOE'S NEW SUB-ECONOMICAL DEVELOPMENT FOR THE RELOCATION OF PEOPLE STAYING IN FLOOD AFFECTED AREAS (700 HOUSES)



LOCAL GOVERNMENT:

The Municipal Manager
Kai !Garib Municipality
PO Box 174
KAKAMAS
8870

Tel.: 054 - 4316300
Fax: 054 - 4316301



ASSISTED BY:

BVI Consulting Engineers
PO Box 1155
UPINGTON
8800

Tel.: 054 - 3376600
Fax: 054 - 3376699

OCTOBER 2012

KAI I GARIB MUNICIPALITY

**BUSINESS PLAN FOR
KEIMOOES NEW SUB-ECONOMICAL DEVELOPMENT FOR THE RELOCATION
OF PEOPLE STAYING IN FLOOD AFFECTED AREAS
(2300 PLANNED STANDS, 2300 SERVICED STANDS AND HOUSES)**

CONTENTS

DESCRIPTION	PAGES
1. INTRODUCTION	1
2. PROBLEM STATEMENT	4
3. PROJECT OUTLINE	5
4. PROJECT ANALYSIS	7
5. HOUSING NEEDS	9
6. PROJECT DESCRIPTION (ENGINEERING SERVICES)	11
7. CONSTRUCTION OF HOUSES	17
8. MONITORING AND EVALUATION OF CONSTRUCTION	19
9. TOTAL FUNDS APPLIED UNDER THIS PROJECT	20
10. DECLARATION BY DEVELOPER	21

ANNEXURES

ANNEXURE A	KAI IGARIB MUNICIPALITY IDP DEVELOPMENT OBJECTIVES, STRATEGIES AND HOUSING RELATED PROJECTS
ANNEXURE B	LAYOUT AND LOCALITY PLAN
ANNEXURE C	QUOTATIONS FOR TOWNSHIP ESTABLISHMENT
ANNEXURE D	GEO-TECHNICAL REPORT
ANNEXURE E	CONSTRUCTION PROGRAMME
ANNEXURE F	WATER RETICULATION NETWORK OF AREA
ANNEXURE G	SEWERAGE NETWORK OF AREA
ANNEXURE H	ELECTRICAL NETWORK OF AREA
ANNEXURE I	TECHNICAL REPORT, BULK WATER SYSTEM
ANNEXURE J	SCOPING REPORT, BULK SEWER WORKS
ANNEXURE K	CALCULATED SUBSIDY VARIATION FOR HOUSE PER STAND (FROM VARIATIONS CALCULATOR)
ANNEXURE L	DRAWINGS OF PROPOSED TOP STRUCTURE ALTERNATIVES

NORTHERN CAPE PROVINCE

COGHSTA

HOUSING BUSINESS PLAN FOR KAI !GARIB MUNICIPALITY

NEW SUB-ECONOMICAL DEVELOPMENT FOR THE RELOCATION OF PEOPLE STAYING IN FLOOD AFFECTED AREAS (700 HOUSES)

1. INTRODUCTION

1.1 BACKGROUND/OVERVIEW OF PROJECT



People, among which mainly farm workers, has settled in areas that are subject to floods, and on islands that are inaccessible during high water conditions.

Major floods occurred in 1976, 1988 and 2011. The flood in 2011 left many people homeless. Subsistence farmers, who produced agricultural crops in these areas, also lost their harvest.

Some of these disaster-struck people moved to higher areas, but are still without any services such as water, sanitation or electricity. These living conditions form the root cause of other problems such as malnutrition, diseases due to pollution, limited access to educational and medical facilities.

During flood conditions, the road infrastructure also becomes inaccessible, making it difficult for workers to travel to their work place and back. Not only does this have a negative effect on the main income of the worker, but it also has a ripple effect on the production sector, whether it be the local or export market.

Based on the reasons stated, the municipality has indicated that there is a pressing need for houses, especially low cost housing, as well as serviced plots, within the Kai !Garib Municipal Area.

Keimoes are to expand with an additional 700 sub-economical erven, which forms the basis of this application. This figure does not accommodate all the flood related victims, nor does it meet the housing backlog.

This business plan focuses on beneficiaries who are living between the flood lines of the lower Orange River or those who were evacuated from this area. In order to accommodate these beneficiaries, the EIA and servicing of 700 new sub economical stands as well as the construction of 700 top structures on these stands (Greenfields), are included in this business plan.

This project will form part of the Kai !Garib Municipality's flood disaster rescue program, and will be executed according to the 2007-2012 Integrated Development Plan's Housing/Town Planning and Land Use Management Development Strategies as well as the Housing/Town Planning & Land Use Management IDP projects, as attached in ANNEXURE A.

Attached in ANNEXURE B is the Locality and Layout plan showing the position of the erven.

The developer for this project is the Kai !Garib Municipality. Details of their representatives are as follow:

Contact Person: Mr. A. Vosloo –Municipal Manager

Contact Details: Kai !Garib Municipality
PO Box 8
KEIMOOES, 8860

Telephone number: 054 - 4616400
Fax number: 054 - 4616401
E-Mail: voslooa@kaigarib.gov.za

Assisted by:
Contact Person: Mr. Niël Maritz

Contact Details: BVi Consulting Engineers
P.O. Box 1155
UPINGTON, 8800

Telephone number: 054 - 3376600
Fax number: 054 - 3376699
E-Mail: nielm@bvinc.co.za

1.2 PURPOSE/OBJECTIVE OF THE PROJECT

The main objective of this project is to reallocate and provide or improve the living conditions and quality of life of 700 households in terms of housing and to place the Kai !Garib Municipality in a position to meet the 2014 target to eradicate informal housing through the continuous provision of subsidy houses. This is stated clearly in the June 2008 version of the Kai !Garib IDP.

It is also expected that the project will create job opportunities for approximately 300 persons.

The aim is that ultimately 700 beneficiaries will have sole title deed ownership of the newly constructed houses, registered within their individual names.

2. PROBLEM STATEMENT

2.1 DEVELOPMENT NEEDS

The development needs and requirements are as follow:

PROJECT	STANDS	PHASE 1 A				PHASE 1B	PHASE 2
		TOWN PLANNING	GEO-TECH	LAND SURVEYING	EIA	INTERNAL SERVICES	TOP STRUCTURES
Keimoes A	1000 erven	Completed	Completed	Outstanding	Outstanding	Outstanding	Outstanding
Keimoes B	730 erven	Outstanding	Outstanding	Outstanding	Outstanding	Outstanding	Outstanding
Keimoes C	570 erven	Outstanding	Outstanding	Outstanding	Outstanding	Outstanding	Outstanding

-Note:

This business plan requests funds for the township establishment of 2300 erven as well as construction of 700 top structures on 700 serviced stands.

2.2 BACKLOGS

This business plan focuses only on flood related figures. Backlog figures are covered in a separate business plan.

2.3 BUDGET CONSTRAINTS

The Kai !Garib Municipality do not have the financial- and/or human resources available to initiate this development on their own. The municipality is supported by COGHSTA and BVi Consulting Engineers.

3. PROJECT OUTLINE

3.1 LOCALITY

3.1.1 The area for the 2300 erven targeted for this development is spread over three sites, Keimoes A, B and C.

DEVELOPMENT	LOCATION	SIZE	NR OF ERVEN
Keimoes A	28°41'33.28"S 20°57'42.00"E	59 Ha	1000
Keimoes B	28°42'12.25"S 28°58'37.35"E	49 Ha	730
Keimoes C (Gamakor)	28°41'33.83"S 28°56'50.74"E	26 Ha	570

Refer to the proposed layout plan in **ANNEXURE B**.

3.2 TOWN PLANNING

3.2.1. TOWN PLANNING STATUS & COST IMPLICATIONS

Town planning is complete for Keimoes A (1000 erven), but is outstanding for the 1300 erven (Keimoes B and C).

Professional fees for the town planning of Keimoes A was paid for by Kai !Garib Municipality, and is included in the business plan for reimbursement by the Project Sponsor.

3.2.2. CONTOUR SURVEY STATUS & COST IMPLICATIONS

A contour and topographical survey is required for Keimoes B and C.

3.3 LAND AVAILABILITY/TRANSFER OF LAND

Keimoes A (1000 erven):

Keimoes A has been surveyed. Land surveys are currently at the Survey General for registration. Pegging of the sites will follow after registration. Professional fees for the land surveying has been paid for by the Kai ! Garib Municipality, and is included in this business case for reimbursement by the Project Sponsor.

Keimoes B and C (1300 erven):

3.4 GEO-TECHNICAL STATUS & COST IMPLICATIONS

Geo-technical reports were obtained for Keimoes A, and has been paid for by Kai !Garib Municipality. The cost for this is included in the business case, for reimbursement by the Project Sponsor.

Geo-Technical investigations for Keimoes B & C are still outstanding.

Please refer to **ANNEXURE D** for the geo-technical reports.

3.5 EIA STATUS & COST IMPLICATIONS

The areas where the houses are proposed on were open areas adjacent to formal and informal areas of town development. The target area will form part of the current formal town layout. No EIA have been done on any of these areas.

Due to the fact that the sites planned for development is more than 20ha, a full EIA is required. The standard timeframe for a full EIA is 15 months, with no work to commence before EIA approval has been granted.

The table below shows the quoted cost in order to obtain an EIA report and Record of Decision (ROD) for the development of Keimoes A, B and C. Cost is based on a full EIA study.

4. PROJECT ANALYSIS

4.1 SOCIAL COMPACT

The social agreement between the community of Keimoes and the Kai !Garib Municipality will be reached under the Municipality's IDP consultation process and will form part of the town planning process.

According to the requirements of the Northern Cape Planning and Development Act, the Public will be extensively involved during the planning phase.

4.2 SOCIO-ECONOMIC PROFILE

The income distribution of the target community in Keimoes reflects the typical income distribution generally found in previously disadvantaged communities in the greater South Africa.

The 2001 Census figures for the communities in the area are as follow:

INCOME PER MONTH	HOUSEHOLDS	PERCENTAGE
0	99	7.5%
400	31	2.4%
800	189	14.4%
1600	291	22.2%
3200	352	26.8%
6400	214	16.3%
12800	95	7.2%
25600	42	3.2%
TOTAL	1313	100%

It is expected that the project will create job opportunities for approximately 450 people.

This table above shows that 46.5% of the households earn R1.600 per month or less.

The most recent figures received from the municipality estimates the income of the potential beneficiaries as follow:

BENEFICIARIES INCOME PER MONTH	HOUSEHOLDS	PERCENTAGE
No Income	91	13%
R 0 tot R1 500	609	87%
TOTAL	700	100%

4.3 BENEFICIARIES

All the potential beneficiaries will be able to afford the future operation- and maintenance costs for the needed engineering services under the equitable share grant of the government. Subsidies applied for are as follows:

TOTAL FUNDS APPLIED FOR PER ERF			
DESCRIPTION	INDIRECT COST	DIRECT COST	TOTAL COST
P1 - ENGINEERING DESIGN			
P2 - PLANNING & SURVEYING			
P3 - SERVICES			
P4 - TRANSFERS			
P5 - TOP STRUCTURES			
SUB TOTAL			

BENEFICIARY	AMOUNT PER BENEFICIARY	TOTAL
P1 & P2 (2300)		
P3 (2300)		
P4 & P5 (700)		

TOTAL	
--------------	--

4.4 CONSUMER EDUCATION

A request for assistance with regard to consumer education will be submitted by the Municipality to COGHSTA.

4.5 RESOURCE ALLOCATION

The Kai !Garib Municipality does not have the financial- and/or human resources available to initiate this development on their own. The municipality is supported by COGHSTA and BVi Consulting Engineers.

4.6 OTHER ISSUES IMPACTING ON HOUSING DELIVERY

This upgrade of the bulk services (water, sewer and electrical) is critical, and is discussed in more detail under point 6.

As the Kai !Garib Municipality is currently not in a position to provide any bridging finance for this project or unable to pay interest charges on a loan, borrowing funds from a commercial institution is not an option.

The developer (Kai !Garib Municipality) therefore requests COGHSTA to provide 100% financing for this project.

5. HOUSING NEED

5.1 ALIGNMENT WITH POLICIES AND LEGISLATION

This project will be carried out strictly in alignment with the latest Kai !Garib Housing Policy, National Building and Municipal Scheme Regulations and other applicable regulations and policies.

5.2 THE NEED FOR AFFORDABLE HOUSING

The socio-economic profile of the Keimoes community and of those who were affected by the flood, is a definite indication of the need that occurs for low cost/affordable housing.

Apart from the 700 disaster struck households waiting for RDP standard (low cost) housing in Keimoes, there is a backlog of an additional 1600 households also requiring low cost housing. The total of affordable houses required is therefore 2300 houses.

5.3 THE NEED TO RECTIFY THE HISTORICAL DISTORTED SPATIAL PATTERNS OF HUMAN SETTLEMENT

The June 2008 version of the Kai !Garib Municipality IDP describes the Spatial Analysis: Patterns and Trends as follows:

The Municipal Area of Kai !Garib is situated in the midst of a landscape along the Orange River, characterized by contrasts between semi-desert with sandy plains and wavy hills. The Orange River is the life vein of this Community and on both sides of the river, green cultivated land occurs, forming the largest economic base of this area. The Orange River is further the biggest driving force behind the whole area, causing economic activities in the area over the last two decades to have expanded greatly.

Kai !Garib Municipality is situated between the 20°00' EL (eastern longitude) and 21° 30' EL as well as between the 28°20' SL (southern latitude) and 29°30' SL and is bordered by the Municipal Boundaries of //Khara Hais Municipality in the Northeast. It also borders Namibia in the Northwest.

The Municipal Area falls within the Siyanda District Municipality's Area and covers an area of 7449km². The Municipal Area consists of 3 large towns, i.e. Kakamas, Keimoes and Kenhardt. In between these towns, 6 former settlements are found, previously administrated by the "Benede-Oranje" District Council

5.4 PROJECT PHASES, FINANCIAL BUDGET AND TIME FRAME

The project will be implemented through the following phases:

PHASE	DESCRIPTION	TIME FRAME	BUDGET
PHASE 1A	P2	Oct 2012 – May 2013	
PHASE 1B	P1	Oct 2012 – Dec 2012	
	P3	May 2013 – Dec 2013	
PHASE 2	P5	Jan 2014 – Jun 2015	
	P4	Feb 2014 – Jul 2015	
Total			

The program is based on a full EIA.

See **ANNEXURE E** for a more detailed program.

5.5 PARTNERSHIPS WITH DIFFERENT STAKEHOLDERS

Other stakeholders include Department of Water Affairs (DWA), Regional Bulk Infrastructure Grant (RBIG), Municipal Infrastructure Grant (MIG) and Department Rural Development on the bulk services.

5.6 HOUSING TASK TEAM

Kai !Garib Municipality has a Housing Department that handles and co-ordinate all housing related issues in accordance with COGHSTA's policies.

6. PROJECT DESCRIPTION (ENGINEERING SERVICES)

6.1 BULK SERVICES

6.1.1 Water

The water purification plant was last upgraded 20 years back in 1985 and is currently been operated 24 hours per day during summer months. Some of the equipment is old and faulty resulting in poor quality water. Even with operation at maximum capacity the plant cannot cope with rising water demands in Keimoes with a population of 9392. (Census 2001).

The current bulk water supply system is even older than the water purification plant and cannot supply the needed amount of water.

The bulk services needs to be upgraded to accommodate the existing demand as well as future extensions (2300 stands in total).

6.1.2 Sewer

Currently, wastewater is treated at a set of oxidation ponds located north of Keimoes and located on high ground. This means that all sewage needs to be pumped to the treatment plant.

The existing wastewater treatment by means of Oxidation Ponds in Keimoes has become inadequate due to population growth.

The bulk services needs to be upgraded to accommodate the existing demand as well as future extensions (2300 stands in total).

6.1.3 Storm Water Drainage

Town lay-out will be done in such a way that storm water will still be able to follow its natural course, without posing a risk to any of the houses or other infrastructure. Culverts or storm water drifts will be designed for areas where water needs to cross the road.

Local storm water run-off will be managed on the gravel streets.

6.1.4 Electricity

Below is a summary of the upgrades required to the bulk electrical infrastructure, in order to accommodate the new developments:

Area	New overhead high voltage line	New Mini-Substations	Supplied from	Cost Estimate
Keimoes A (1000 erven)	5.5 km	4 x 500 kVA	Keimoes Substation Nr 2	R3,000,000
Keimoes B (730 erven)	1.0 km	3 x 400 kVA	Keimoes Substation Nr 1	R 450,000
Keimoes C (570 erven)	1.5 km	3 x 315 kVA	Keimoes Substation Nr 3	R 550,000

6.1.5 Access Streets

The sites that will be developed in Keimoes are located adjacent to a main access street that runs through Gamacor and Woonbuurt A.

6.1.6 Street lighting

High mast lighting will be provided as part of the internal services, and is included in this application. Construction will be done simultaneously with the civil services.

6.2 INTERNAL SERVICES (FOR THE PROPOSED DEVELOPMENT)

The level of engineering services to be supplied will be in line with the "Guidelines for the Provision of Engineering Services and Amenities in Residential Township Development" (Red Book) as published by the National Housing Board.

6.2.1 Water network/system

The completed water network/system is in line with the following specifications:

- (a) Demand (per day) : 600l/plot/day
- (b) Peak factor : 6 x average demand per day
- (c) Min. water pressure : 12 m
- (d) Fire extinguishing : Low risk - Group 3
- (e) Single plot connection : 20 mm HDPE
- (f) Double plot connection : 25 mm HDPE
- (g) Water meter : 15 mm half positive type with

6.2.2 Sanitation network/system

The completed sanitation network/system is in line with the following Specifications:

(a)	Type	:	Water borne sewerage
(b)	Average flow	:	500 l/plot/day
(c)	Peak factor	:	2.5
(d)	Pipe material	:	uPVC
(e)	Min. diameter	:	110 mm
(f)	Inspection hole positioning	:	90 m max. centre to centre
(g)	Locality	:	Next to plot boundary and mid block
(h)	Plot connections	:	Within 2.0 m from the lowest corner of the plot adjacent to the collection sewerage pipe

6.2.3 Street and storm water network

The internal streets will be upgraded to a gravel standard by doing the following:

- Taking out excess material to base level
- Rip and re-compact or in situ sub base
- Importing and compacting of 100mm imported base

The following standards apply:

(a)	Collector streets	:	6m gravel streets (in a min. 13m reserve)
(b)	Access streets (to plots):	:	4.2m gravel streets (min. 10m reserve)

Local storm water has been dealt with as follows:

- (a) The street reserve is aligned to channel storm water to side drains.
- (b) Floor levels of the top-structures will be designed according to the level of the street pavements.

6.2.4 Electricity

The provision of electricity for the 700 houses will be financed by the Municipality through INEP. Construction of the electrical infrastructure will be done simultaneously with the civil services.

6.2.5 Variation allowance (geotechnical)

A geotechnical survey was done for Keimoes A (1000 erven), but still needs to be done for Keimoes B and C.

Geotechnical information was entered into the subsidy variation calculator, attached in **ANNEXURE K**.

INFORMATION ONLY

6.3 DEVELOPMENT COSTS

The estimated cost for the proposed development is as follows. The calculated subsidy variation reflected in the table below was obtained from the subsidy variation calculator as attached in **ANNEXURE K**.

FUNDS APPLIED FOR INDIRECT COSTS		
DESCRIPTION	MAX SUBSIDY	SUBSIDY CLAIMED
INDIRECT COSTS		
Professional Fees		
Safety Inspector (DoL)		
Environmental Control Officer		
EIA		
Pre-planning Studies		
Project Management		
Geotechnical Evaluation		
Contour Survey		
Land Surveying and Site Pegging		
Land Survey Examination Fee		
Town Planning		
Civil Engineer : Services		
Site Supervision : Clerk of Works - Civil		
Social Facilitation		
Legal Fees		
SUB-TOTAL : INDIRECT COST		
Water Reticulation including meter		
Sanitation Reticulation		
Roads		
Storm Water		
Street Lighting		
SUB-TOTAL : DIRECT COST		
SUB-TOTAL : INDIRECT COST		
SUB TOTAL : DIRECT COST		
TOTAL COST (ROUNDED OFF)		
SUBSIDY VARIATION FOR HOUSE PER ERF (FROM VARIATIONS CALCULATOR)		
TOTAL SUBSIDY FOR HOUSE PER ERF APPLIED FOR (ROUNDED OFF)		

6.4 IMPLEMENTATION PROCESS AND PROGRAMME

The construction of the civil and electrical services can only commence after EIA approval. The program is based on a full EIA of 15 months. Attached in **ANNEXURE E** is a high level program, covering the main project activities.

7. CONSTRUCTION OF HOUSES

7.1 BENEFICIARIES AND ADMINISTRATION (ROLES AND RESPONSIBILITIES)

Construction of the services and top houses will be handled on a tender basis in line with all applicable rules and regulations of the Local Government's procurement policy. Project management and administration, as well as quality control will be done by qualified consulting engineers.

The beneficiaries will be represented by appointed representatives on a project steering committee that will meet on a regular basis. All aspects of the project will be discussed on this committee. Beneficiaries will be informed through meetings or written notices of all important aspects. A Community Liaison Officer will be appointed to assist with the above.

7.2 TRANSFER OF PROPERTIES

The cost of a transfer per house will be R844.80 per house which brings the total costs of the transfer of properties to R 591,360.00.

Transfers of properties will be done in three batches:

Quarter	Number of plots-transferred	Number of Top-structures Transferred	Value of Transfers
Jul 2015	700	700	

Calculations are based on the assumption that only 700 of the 2300 plots will be transferred at this stage.

7.3 PLANNED HOUSES (BNG MINIMUM STANDARDS)

The houses will be constructed according to the BNG minimum standards as stipulated in the Revised Technical Norms and Standards for the Construction of Stand Alone Residential Dwellings Financed through National Housing Programs, Part 3 (of the National Housing Code) 2007.

Refer to ANNEXURE L for the proposed top structure alternatives.

7.4 FOUNDATION NEEDED (BASED ON GEO-TECHNICAL REPORT)

No problems are foreseen in this regard. A geotechnical investigation report was completed as part of the planning process in order to ensure that the all the conditions regarding foundations are met.

7.5 VARIATION ALLOWANCE (GEO-TECHNICAL, DISTANCE FROM MAJOR CENTRES)

The calculated subsidy variation reflected in the table below was obtained from the subsidy variation calculator is attached in **ANNEXURE K**.

7.6 CONSTRUCTION COSTS

FUNDS APPLIED FOR 40 m² HOUSE	
Earthworks (provisional)	
Concrete, Formwork and Reinforcement	
Brickwork	
Roof structure	
Windows	
Doors and Frames	
Finishing and Paintwork	
Electrical	
Plumbing and Toilet	
MATERIAL	
Labour	
SUB TOTAL	
P & G	
Overheads	
Transfer Costs	
Beneficiary Administration	
Profit	
TOTAL COST (ROUNDED OFF)	
SUBSIDY VARIATION FOR HOUSE PER ERF	
TOTAL SUBSIDY FOR HOUSE PER ERF APPLIED FOR (ROUNDED OFF)	

Notes:

- No allowance is made for delays in construction due to unrest or related events on-site.
- Above estimated costs per plot is based on completion of an average of 60 houses per month.

7.7 IMPLEMENTATION PROCESS AND PROGRAMME

The town planning, including the EIA study can commence immediately after the approval of this business plan. Unfortunately no construction work can commence before an approved EIA, as indicated in the attached Gantt Chart. (**ANNEXURE E**)

The implementation program has been based on the scenario of a full EIA (15months) for the construction of the internal services and top structures. The

upgrade of the waste water treatment works will also require a full EIA (15months). The internal sewer and bulk waste water upgrade will finish simultaneously.

7.8 ON-SITE SERVICES

On-site services will be constructed by the Contractor appointed for construction of the top structures as part of the same contract.

8. MONITORING AND EVALUATION OF CONSTRUCTION

A quality control system will be implemented as part of the project management. The construction process will be monitored twice a week by a qualified Building Inspector employed by the Consulting Engineer in order to ensure that the required quality is maintained. Materials will be tested.

9. TOTAL FUNDS APPLIED FOR UNDER THIS PROJECT

9.1 PROJECT FUNDS APPLIED FOR

The total funds applied for under this project for direct and indirect costs are as follows:

TOTAL FUNDS APPLIED FOR PER ERF			
DESCRIPTION	INDIRECT COST	DIRECT COST	TOTAL COST
P1 – ENGINEERING DESIGN			
P2 – PLANNING & SURVEYING			
P3 - SERVICES			
P4 - TRANSFERS			
P5 – TOP STRUCTURES			
SUB TOTAL			

BENEFICIARY	AMOUNT PER BENEFICIARY	TOTAL
P1 & P2 (2300)		
P3 (2300)		
P4 & P5 (700)		
TOTAL		

9.2 FUNDS NEEDED PER FINANCIAL YEAR

The total amount required per financial year is listed in the table below:

FINANCIAL YEAR	FUNDS NEEDED
2012/2013	
2013/2014	
2014/2015	
TOTAL	

10. DECLARATION BY DEVELOPER

I hereby declare the information as supplied in this business plan as true and correct and hereby declare myself willing to ensure that the implementation of this project adhere to the regulations of the national housing regulations. I undertake to sign an agreement with COGHSTA upon approval of this project.

SIGNED AT..... ON THIS..... DAY OF..... 2012

.....
NAME

.....
CAPACITY

WITNESSES

1.

2.

APPENDIX D (3)

Biodiversity Assessment



PB Consult

Ecological & Botanical management services

KEIMOES SITE B

LOW COST HOUSING DEVELOPMENT

BIODIVERSITY ASSESSMENT & BOTANICAL SCAN

A preliminary Biodiversity & Botanical scan in order to identify significant environmental features (and to identify the need for additional studies, if required).

March 15, 2013



PREPARED BY: PB Consult

PREPARED FOR: ENVIROAFRICA CC

REQUESTED BY: BVI ENGINEERS

©

INDEPENDENCE & CONDITIONS

PB Consult is an independent consultant and has no interest in the activity other than fair remuneration for services rendered. Remunerations for services are not linked to approval by decision making authorities and PB Consult have no interest in secondary or downstream development as a result of the authorization of this proposed project. There are no circumstances that compromise the objectivity of this report. The findings, results, observations and recommendations given in this report are based on the author's best scientific and professional knowledge and available information. PB Consult reserve the right to modify aspects of this report, including the recommendations if new information become available which may have a significant impact on the findings of this report.

RELEVANT QUALITIFICATIONS & EXPERIENCE OF THE AUTHOR

Mr. Peet Botes holds a BSc. (Hons.) degree in Plant Ecology from the University of Stellenbosch (Nature Conservation III & IV as extra subjects). Since qualifying with his degree, he had worked for more than 20 years in the environmental management field, first at the Overberg Test Range (a Division of Denel) managing the environmental department of OTR and being responsible for developing and implementing an ISO14001 environmental management system, ensuring environmental compliance, performing environmental risk assessments with regards to missile tests and planning the management of the 26 000 ha of natural veld, working closely with CapeNature (De Hoop Nature Reserve). In 2005 he joined Enviroscientific, an independent environmental consultancy specializing in wastewater management, botanical and biodiversity assessments, developing environmental management plans and strategies, environmental control work as well as doing environmental compliance audits and was also responsible for helping develop the biodiversity part of the Farming for the Future audit system implemented by Woolworths. During his time with Enviroscientific he performed more than 400 biodiversity en environmental legal compliance audits. During 2010 he joined EnviroAfrica in order to move back to the biodiversity aspects of environmental management. Experience with EnviroAfrica includes EIA applications, biodiversity assessment, botanical assessment, environmental compliance audits and environmental control work.

Yours sincerely,



P.J.J. Botes
Professional Environmental and Ecological Scientist

SUMMARY - MAIN CONCLUSIONS

PREPARED BY:		PREPARED FOR:
PB Consult 22 Buitekant Street Bredasdorp 7280		EnviroAfrica CC PO Box 5367 Helderberg 7135
CONTACT PERSON		CONTACT PERSON
Peet Botes Cell: +(27)82 – 921 5949 Fax: +(27)86 – 415 8595 Email: pbconsult@vodamail.co.za		Mr. Bernard de Witt Tel: +(27) 21 – 851 1616 Fax: +(27) 86 – 512 0154 Email: bernard@enviroafrica.co.za
ASPECT	SHORT DESCRIPTION	SIGNIFICANCE RATING
Geology & soils	Geology & soils vary only slightly in the larger study area, with sandy soils found over most of the area.	No special features have been encountered (e.g. true quartz patches or broken veld) and the impact on geology and soils is expected to be very localised and low. Refer to Geology & Soils on page 9 Impact = very low
Land use and cover	Natural veld utilised for stock grazing.	Natural vegetation forms a sparse cover over the entire area of the study area. Two non-perennial streams cross the property from north to south. The study area is situated on communal grazing land, with no development or agricultural practices (apart from some grazing) observed. The Keimoes cemetery is located within the study area and illegal sand mining activities as well as illegal dumping was observed in the south-western portion of the property (Refer to Landuse and Cover page 9). The impact on land use and cover is expected to be <u>very low</u> .
Vegetation types	Bushmanland Arid Grassland	This vegetation type is considered " <u>Least threatened</u> ", and has been mostly transformed due to human activities. According to the draft Siyanda EMF, the vegetation is of medium conservation priority, but of very low environmental significance and does not fall within a proposed conservation area. <u>Impact low</u> .
Conservation priority areas.	In terms of the draft Siyanda EMF	According to the EMF the site also does not fall within a proposed conservation area. <u>Impact low/localised</u> .
Sensitivity index	In terms of the draft Siyanda EMF	According to the EMF, the proposed site falls within an area identified as of very low environmental sensitivity (1). <u>Impact low and localised</u> .
Protected plant species	A number of protected plant species (Refer to Endemic or Protected plant Species, page 14), in terms of the NCNCA and the NFA were observed.	The development will most definitely impact on a number of protected species. Some of these species can be excluded through placement and some could be protected through search & rescue. However, a great many individual plants will be impacted. It should be taken into account that a dedicated search & rescue should be able to rescue most of the significant species (subject to DAFF approval). In addition it should be non-negotiable that all protected tree species must be located and protected (may not be removed or impacted). Also take into account that apart from the Aloe and Ornithoglossum species very few of the other protected species are considered locally scarce. Impact considered being <u>medium to medium/low</u> .
Fauna & Avi-fauna	The site is located right next to the town of Keimoes (and basically within the urban edge) and has been used for live-stock grazing and various other activities.	Although natural fauna and avi-fauna may still be present, it is expected that it would be limited to smaller game, avi-fauna, insects and maybe some reptile's species. The activity is not expected to have a significant additional impact on fauna or avi-fauna. Impact <u>low</u> .
Rivers & wetlands	Various non-perennial or dry watercourses and drainage lines have been observed. Most of these are smaller drainage lines with only two seasonal streams of which the stream to the east of the property (outside of the current footprint) is the most significant.	Almost all of these drainage lines are still in a relative natural state and well maintained. However, to the southwest of the property, illegal dumping and sand mining has significantly impacted on the integrity of that water course. All river and drainage lines on the property will eventually be impacted or will have to be included into a formal storm water drainage system. Trying to protect the small streams not already transformed will be almost impossible. However, it is recommended that these drainage systems are recognised as important ecological features which should be protected and maintained as such and wherever possible be maintained as natural as possible with adequate buffer zones. In addition, the main water course to the east of the property is associated with a number of protected species and a corridor similar to at least the 1:50 year flood line should be preserved next to this stream The impact on rivers is thus considered <u>medium/high</u> . By implementing the above

		recommendations the impact can be reduced to <u>medium or medium/low</u> .
Invasive alien infestation	A number of <i>Prosopis</i> individuals were observed, but even more alarming was the presence of the alien boxing glove cactus.	All <i>Prosopis</i> species must be removed. NB: The presence of the emerging invasive cactus <i>Cylindropuntia fulgida</i> (Boxing-glove cactus) is most alarming and it is imperative that all individuals of this species as well as those in the immediate surrounding areas are removed as fast as possible. If implemented the impact can be regarded as <u>positive</u> .
RECOMMENDATION		
<p>From the information discussed in this document it is clear to see that the Keimoes B site could be better located with regards to the possible impact on protected species and water courses. However, impact on the regional status of the vegetation type and associated biodiversity features (e.g. watercourses and drainage lines) would likely still be only medium-low. No significant habitat-loss, connectivity or associated impact can be foreseen from locating the low cost housing project on the proposed site. However, the impact on watercourses and protected species can be much reduced through good mitigation.</p> <p>The site visit and desktop studies described and evaluated in this document led to the conclusion that the "No-Go Alternative" alternative will not result in significant gain in regional conservation targets, the conservation of species or gain in connectivity. At the best the No-Go alternative will only support the "status quo" of the specific site while further land will have to be investigated for development purposes.</p> <p>With the available information at the author's disposal it is recommended that the project be approved, if the mitigation measures described in this document is also implemented, especially with regards to the protection of significant water courses and protected species.</p>		

CONTENTS

Summary - main conclusions	ii
Introduction	1
Terms of reference	1
Definitions & Abbreviations	2
Definitions	2
Abbreviations	3
Applicable legislation	3
References	5
Description of Environment	6
Location & Layout	6
Methods	7
Topography	8
Climate	8
Geology & Soils	9
Landuse and Cover	9
Vegetation types	10
Bushmanland Arid Grassland	11
Vegetation encountered	11
Endemic or Protected plant Species	14
Fine Scale Mapping (CBA's)	15
Summary of findings according to the EMF	15
Mammal and Bird species	16
Rivers and wetlands	16
Veld fire risk	18
Invasive alien infestation	18
Significant biodiversity features encountered	19
The no-go option	20
Recommendations & Impact Minimization	21
Impact minimization	21
General	21
Site specific recommendations	22

LIST OF FIGURES

Figure 1: The general location of Keimoes.....	6
Figure 2: The proposed site for the Keimoes LCH (Site B).....	7
Figure 3: Google image indicating the drainage pattern and the slope following the boundary of the site (direction SW-SE-NE-NW)	8
Figure 4: Google overview of the property indicating current land use and cover.....	9
Figure 5: Vegetation map of SA, Lesotho and Swaziland (2006).....	10
Figure 6: Google image showing the location of some of the protected species encountered.....	14
Figure 7: Google image showing the proposed river corridor	17
Figure 8: Google image showing the proposed areas for protection.....	23

LIST OF TABLES

Table 1: GPS coordinates describing the boundaries of the proposed final solar site location (WGS 84 format)	7
Table 2: List of species encountered on site (excluding grass species)	13
Table 3: Summary of biodiversity features encountered on Erf 1654, Keimoes and their possible significance	19

LIST OF PHOTOS

Photo 1: Low grassy shrubland encountered on more shallow soils (note the protected <i>Aloe</i> species).....	12
Photo 2: Vegetation encountered on deeper sandy soils next to the seasonal streams (note <i>Acacia erioloba</i> in the background).....	12
Photo 3: <i>Cylindropuntia fulgida</i> encountered on the Keimoes site	18

INTRODUCTION

People, among which mainly farm workers, has settled in areas next to the Orange River (Keimoes area) that are subject to floods, and on islands that are inaccessible during high water conditions. Major floods occurred in 1976, 1988 and 2011. The flood in 2011 left many people homeless. Subsistence farmers, who produced agricultural crops in these areas, also lost their harvest. Some of these disaster-struck people moved to higher areas, but are still without any services such as water, sanitation or electricity. These living conditions form the root cause of other problems such as malnutrition, diseases due to pollution, limited access to educational and medical facilities. During flood conditions, the road infrastructure also becomes inaccessible, making it difficult for workers to travel to their work place and back. Not only does this have a negative effect on the main income of the worker, but it also has a ripple effect on the production sector, whether it be the local or export market. Based on the reasons stated, the municipality has indicated that there is a pressing need for houses, especially low cost housing, as well as serviced plots, within the Kai !Garib Municipal Area (BVi, 2012)

This project will form part of the Kai !Garib Municipality's flood disaster rescue program, and will be executed according to the 2007-2012 Integrated Development Plan's Housing/Town Planning and Land Use Management Development Strategies as well as the Housing/Town Planning & Land Use Management IDP projects. This figure does not accommodate all the flood related victims, nor does it meet the housing backlog.

Keimoes site B is a new area proposed for the relocation of the flood victims. Some of the area is occupied by existing Municipal features such as the cemetery and waste disposal site, large sections of the property has already been disturbed, by illegal dumping and even sand mining, while portions of the Erf is located adjacent to a seasonal stream (with a number of *Acacia erioloba* trees encountered in the deeper sand next to the stream). To the northeast of the property a large number of Aloe species was encountered associated with rocky ridges and usually shallow soils.

TERMS OF REFERENCE

EnviroAfrica (Pty) Ltd was appointed by BVi Engineers as the independent Environmental Assessment Practitioner (EAP) to undertake the Scoping/Environmental Impact Assessment (EIA) Process for the proposed development. PB Consult was appointed by EnviroAfrica to conduct a Biodiversity Assessment of the proposed development area.

PB Consult was appointed within the following terms of reference:

- Evaluate the general location of the proposed site and make comment on biodiversity features encountered
- The study must consider short- to long-term implications of impacts on biodiversity and highlight irreversible impacts or irreplaceable loss of species.

DEFINITIONS & ABBREVIATIONS

DEFINITIONS

Construction: means the period of the project during which the actual works are carried out, deemed to include site establishment, site preparation, the works, maintenance period and decommissioning.

Construction site: means the area influenced and affected by the construction activities or under the control of the Contractor often referred to as "the Site".

Contaminated water: means water contaminated by the Contractor's activities, e.g. concrete water and runoff from plant/ personnel wash areas.

Environment: means the surroundings within which humans exist and that are made up of:

- the land, water and atmosphere of the earth;
- micro-organisms, plant and animal life;
- any part of the combination of the above two bullets and the interrelationships between them;
- the physical, chemical, aesthetic and cultural properties and conditions of the foregoing that influence human health and well-being

Environmental Aspect: any element of any construction activity, product or services that can interact with the environment.

Environmental Control Officer: a suitably qualified environmental agent responsible for overseeing the environmental aspects of the Construction phase of the EMP.

Environmental Impact: any change to the environment, whether adverse or beneficial, wholly or partially resulting from any construction activity, product or services.

No-Go Area(s): an area of such (environmental/aesthetical) importance that no person or activity are allowed within a designated boundary surrounding this area.

Owner: the owner, or dedicated person, responsible for the management of the property on which the proposed activity will be performed.

Solid waste: means all solid waste, including construction debris, chemical waste, excess cement/concrete, wrapping materials, timber, tins and cans, drums, wire, nails, food and domestic waste (e.g. plastic packets and wrappers).

Precautionary principle: means the basic principle, that when in doubt or having insufficient or unreliable information on which to base a decision, to then limit activities in order to minimise any possible environmental impact.

Watercourse: in this report the author uses a very simplified classification system to define the difference between rivers, streams or a drainage lines encountered in the Northern Cape.

- **River:** A river is a natural watercourse with a riverbed wider than 3m, usually freshwater, flowing toward an ocean, a lake, a sea or another river. In a few cases, a river simply flows into the ground or dries up completely before reaching another body of water. The flow could be seasonal or permanent.
- **Stream:** A small river or natural watercourse with a riverbed of less than 3 m, usually freshwater, flowing toward an ocean, a lake, a sea or another river. In a few cases, a river simply flows into the ground or dries up completely before reaching another body of water. The flow could be seasonal or permanent.

- **Drainage line:** A very small and poorly defined watercourse, mostly on relatively flat areas, which only flows for a short period after heavy rains, usually feeding into a stream or river or dries up completely before reaching another body of water.

ABBREVIATIONS

BGIS	Biodiversity Geographical Information System
CARA	Conservation of Agricultural Resources Act 43 of 1983
CBA	Critical Biodiversity Areas (Municipal)
DAFF	Department of Agriculture Forestry and Fisheries
DEA	Department of Environmental Affairs
DENC	Department of Environment and Nature Conservation (Northern Cape Province)
EAP	Environmental assessment practitioner
EIA	Environmental impact assessment
EMF	(Municipal) Environmental Management Framework
EMP	Environmental management plan
LCH	Low Cost Housing
NCNCA	Northern Cape Nature Conservation Act 9 of 2009
NEMA	National Environmental Management Act, Act 107 of 1998
NEMAQA	National Environmental Management Air Quality Act 39 of 2004
NEMBA	National Environmental Management Biodiversity Act, Act 10 of 2004
NEMPAA	National Environmental Management Protected Areas Act 57 of 2003
NEMWA	National Environmental Management Waste Act 59 of 2008
NFA	National Forests Act 84 of 1998
NSBA	National Spatial Biodiversity Assessment
NVFFA	National Veld and Forest Fire Act 101 of 1998
NWA	National Water Act 36 of 1998
SABIF	South African Biodiversity Information Facility
SANBI	South African National Biodiversity Institute
SIBIS	SANBI's Integrated Biodiversity Information System
SKEP	Succulent Karoo Ecosystem Project
WWTW	Wastewater Treatment Works

APPLICABLE LEGISLATION

The following applicable legislation must be read as part of the original Biodiversity scan.

Constitution of the Republic of South Africa (1996): of special relevance in terms of environment is section 24

Conservation of Agricultural Resources Act 43 of 1983 (CARA): supports conservation of natural agricultural resources (soil, water, plant biodiversity) by maintaining the production potential of the land and combating/preventing erosion; for example, by controlling or eradicating declared weeds and invader plants.

Hazardous Substances Act 15 of 1973: to control substances that may cause injury, ill-health, or death through their toxic, corrosive, irritant, strongly sensitizing or flammable nature, or by the generation of pressure

National Environmental Management: Air Quality Act 39 of 2004 (NEMAQA): replaces the Atmospheric Pollution Prevention Act (No. 45 of 1965)

- **Environmental Impact Assessment Regulations (R543 of 2010):** procedures to be followed for application to conduct a listed activity.

National Environmental Management: Biodiversity Act 10 of 2004 (NEMBA): supports conservation of plant and animal biodiversity, including the soil and water upon which it depends.

- **National list of ecosystems that are threatened and in need of protection** (GN 1002 of 9 December 2011).

National Environmental Management: Protected Areas Act 57 of 2003 (as amended Act 31 of 2004) (NEMPAA): To provide for the protection and conservation of ecologically viable areas representative of South Africa's biological diversity and its natural landscapes and seascapes.

National Environmental Management: Waste Act 59 of 2008 (NEMWA): To reform the law regulating waste management in order to protect health and the environment by providing reasonable measures for the prevention of pollution and ecological degradation and for securing ecologically sustainable development.

- **List of Waste Management Activities that have, or are likely to have a detrimental effect on the environment** (GN 718 of 3 July 2009): Identifies activities in respect of which a waste management license is required.

National Forest Act 84 of 1998 (as amended): supports sustainable forest management and the restructuring of the forestry sector.

- **List of protected tree species** (GN 734 of 16 September 2011)

National Heritage Resources Act 25 of 1999: supports an integrated and interactive system for the management of national heritage resources, including supports soil, water and animal and plant biodiversity.

National Veld and Forest Fire Act 101 of 1998 (NVFF): protects soil, water and plant life through the prevention and combating of veld, forest, and mountain fires.

- **National Veldfire Risk Classification 2010** – the DAFF fire risk assessment for South Africa (Forsyth 2010).

National Water Act 36 of 1998 (NWA): promotes the protection, use, development, conservation, management, and control of water resources in a sustainable and equitable manner.

Nature and Environmental Conservation Ordinance 19 of 1974 (as amended)

Northern Cape Nature Conservation Act 9 of 2009 (NCNCA): To provide for the sustainable utilization of wild animals, aquatic biota and plants.

REFERENCES

- Acocks, J.P.H. 1953.** Veld types of South Africa. *Mem. Bot. Surv. .S. Afr.* No. 28: 1-192.
- BVi, 2012.** Kai !Garib Municipality. Business plan for Keimoes new sub-economical development for the relocation of people staying in flood affected areas. Unpublished report by BVi Engineers for the Kai !Garib Municipality. October 2012.
- De Villiers C.C., Driver, A., Brownlie, S., Clark, B., Day, E.G., Euston-Brown, D.I.W., Helme, N.A., Holmes, P.M., Job, N. & Rebelo, A.B. 2005.** Fynbos Forum Ecosystem Guidelines for Environmental Assessment in the Western Cape. Fynbos Forum, c/o Botanical Society of South Africa: Conservation Unit, Kirstenbosch, Cape Town.
- Forsyth, G.G., FJ Kruger, F.J., & Le Maitre, D.C. 2010:** National veldfire risk assessment: analysis of exposure of social, economic and environmental assets to veldfire hazards in South Africa. CSIR Report No: CSIR/NRE/ECO/ER/2010/0023/C. March 2010.
- Government Notice No 1002, 9 December 2011.** National list of Ecosystems that are threatened and in need of protections. In terms of section 52(1)(a) of the National Environmental Management Biodiversity Act, 2004 (Act 10 of 2004).
- Low, A.B. & Rebelo, A.(T.)G. (eds) 1996.** *Vegetation of South Africa, Lesotho and Swaziland.* Dept. of Environmental Affairs and Tourism, Pretoria.
- Mucina, L. & Rutherford, M.C. (eds.) 2006.** The vegetation of South Africa, Lesotho and Swaziland. Strelitzia 19. South African National Biodiversity Institute, Pretoria.
- SANBI. 2006.** South African National Botanical Institute: Biodiversity GIS Home. <http://bgis.sanbi.org> (as updated)
- SANBI. 2013.** Red List of South African Plants version 2013.1. Downloaded from Redlist.sanbi.org.
- Siyanda Draft EMF Report. 2008.** Draft Environmental Framework report for the Siyanda District Municipality. A joined project between Siyanda District Municipality, Department of Tourism, Environment and Conservation, Department of Environmental Affairs and Tourism, Northern Cape. In association with MetroGIS & Mosakong Management. 2008.

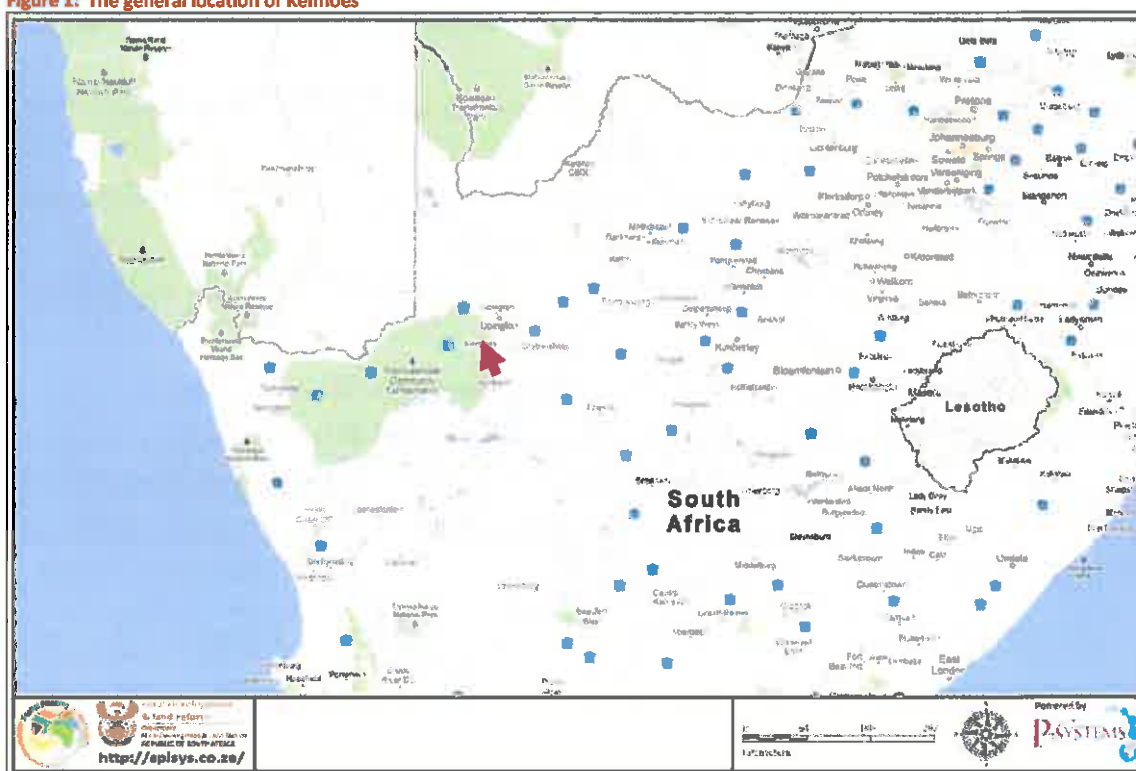
DESCRIPTION OF ENVIRONMENT

The aim of this description is to put the study area in perspective with regards to all probable significant biodiversity features which might be encountered within the study area. The study area has been taken as the proposed site and its immediate surroundings. During the desktop study any significant biodiversity features associated with the larger surroundings was identified, and were taken into account. The desktop portion of the study also informs as to the biodiversity status of such features as classified in the National Spatial Biodiversity Assessment (2004) as well as in the recent National list of ecosystems that are threatened and in need of protection (GN 1002, December 2011), promulgated in terms of the National Environmental Management Biodiversity Act (NEM: BA), Act 10 of 2004.

LOCATION & LAYOUT

Keimoes is located in the Northern Cape Province (Kai !Garib Local Municipality), just north of the N14 approximately 43 km west of Upington (Refer to Figure 1).

Figure 1: The general location of Keimoes



The proposed housing development will be located on a 49 ha portion of Erf 666, Keimoes, situated just north of Blesbok avenue and east of Margaret Street, to the north of the existing town (refer to Figure 2).

Figure 2: The proposed site for the Keimoes LCH (Site B)



Table 1: GPS coordinates describing the boundaries of the proposed final solar site location (WGS 84 format)

	LATITUDE AND LONGITUDE	ALTITUDE
North-west corner	S28 41 11.9 E20 57 19.3	768 m
North-east corner	S28 41 08.0 E20 57 53.3	765 m
South-east corner	S28 41 45.4 E20 57 55.4	747 m
South-west corner	S28 41 48.3 E20 57 26.9	752m

METHODS

Desktop studies were conducted, coupled by a physical site visit conducted during December 2012. The timing of the site visit was reasonable in that essentially all perennial plants were identifiable and although the possibility remains that a few species may have been missed, the author is confident that a fairly good understanding of the biodiversity status in the area was obtained.

The survey was conducted by walking through the site and examining, marking and photographing any area of interest. Confidence in the findings is high. During the site visit the author endeavoured to identify and locate all significant biodiversity features, including rivers, streams or wetlands, special plant species and or specific soil conditions which might indicate special botanical features (e.g. rocky outcrops or silcrete patches).

TOPOGRAPHY

The proposed site is located on a relative flat area, with a small ridge running from north to south along the middle of the property. To the south and southwest, the property connects with the existing town of Keimoes (Blesbok Avenue and Margaret Street respectively). To the east the proposed property is located next to a seasonal stream flowing from the north towards Keimoes (and towards a tributary of the Orange River approximately 1.7 km to the south). Elevation varies from 747 m at its lowest corner in the southeast (next to the small stream) to approximately 770 m at the highest point (top of the ridge to the north). The site will drain from the ridge in the centre of the property towards the southwest and southeast (Refer to Figure 3).

Figure 3: Google image indicating the drainage pattern and the slope following the boundary of the site (direction SW-SE-NE-NW).



CLIMATE

All regions with a rainfall of less than 400 mm per year are regarded as arid. This area normally receives about 106 mm of rain per year (the climate is therefore regarded as arid to very arid). Keimoes normally receives about 84mm of rain per year, with most rainfall occurring mainly during autumn. It receives the lowest rainfall (0 mm) in June and the highest (27 mm) in March. The monthly distribution of average daily maximum temperatures range from 19.8°C in June to 33°C in January. The region is the coldest during July when the mercury drops to 3°C on average during the night (www.saexplorer.co.za).

GEOLOGY & SOILS

Geology is dominated by mudstones and shales of the Ecca Group (Prince Albert and Volksrust Formations) and Dwyka tillites, both of the early Karoo age. About 20% of rock outcrops are formed by Jurassic intrusive dolerite sheets and dykes. Soils are described as soils with minimal development, usually shallow on hard or weathering rock, Glenrosa and Mispah forms, with lime generally present in the entire landscape (Fc land type) and, to a lesser extent, red-yellow apedal, freely drained soils with a high base status and usually <15% clay (Ah and Ai land types) are also found. The salt content in these soils is very high (Mucina & Rutherford, 2006).

Most of the property is located on relative shallow rocky soils associated with the ridge found along the middle of the property. Deeper sandy soils are found along the bottom slopes next to the seasonal streams on the property.

LANDUSE AND COVER

The study area is situated on communal grazing land, with no development or agricultural practices (apart from some grazing) observed. The Keimoes waste disposal site is located to the northeast of the proposed site, while the Cemetery is located within the study area. Sand mining activities as well as illegal dumping was observed in the south-western portion of the property. Natural vegetation forms a sparse cover over the entire area of the study area. Two non-perennial streams cross the property from north to south, one of which is located within the proposed development footprint (Refer to Figure 4). A number of smaller drainage lines are also present draining the property into the larger seasonal streams.

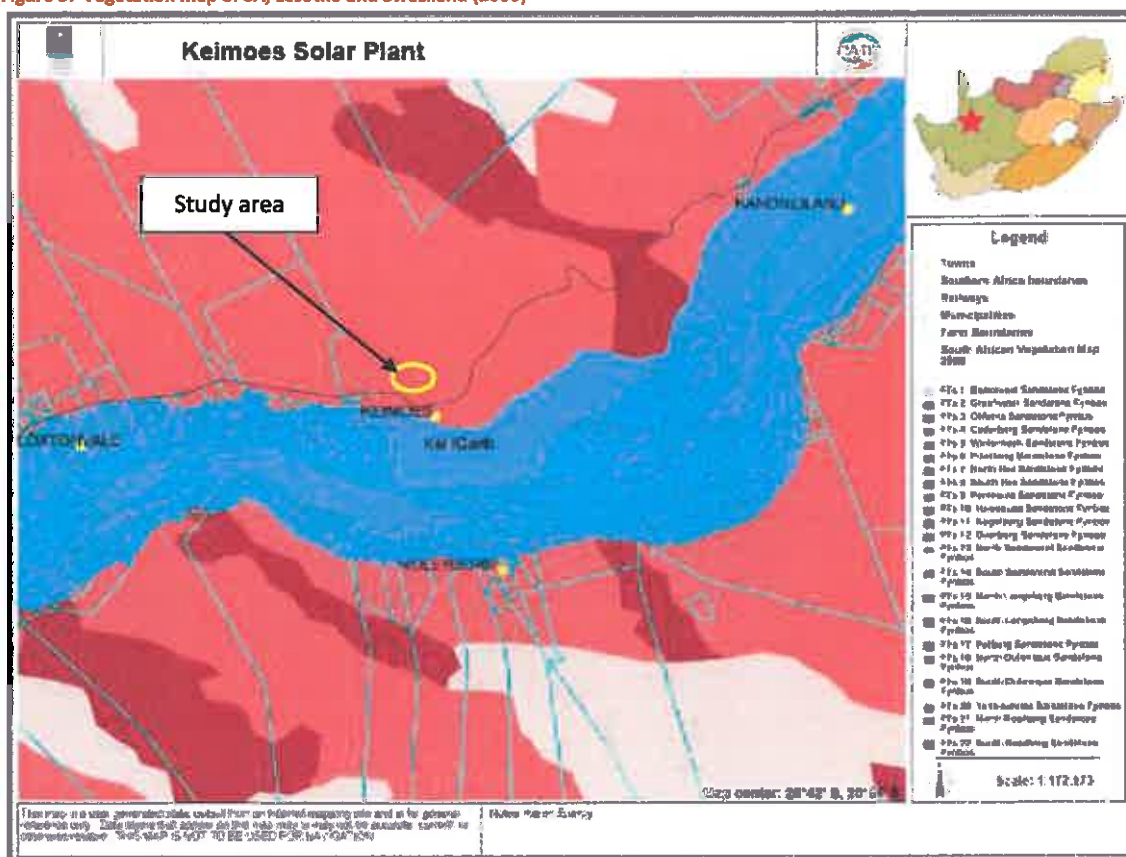
Figure 4: Google overview of the property indicating current land use and cover



VEGETATION TYPES

In accordance with the 2006 Vegetation map of South Africa, Lesotho and Swaziland (Mucina & Rutherford, 2006) only one broad vegetation type is expected in the proposed area and its immediate vicinity, namely Bushmanland Arid Grassland (Light red in Figure 5). This vegetation type was classified as “Least Threatened” during the 2004 National Spatial Biodiversity Assessment (NSBA). More than 99% of this vegetation still remains in its natural state, but at present only 4% is formally protected (Augrabies Falls National Park) throughout South Africa. Recently the *National list of ecosystems that are threatened and in need of protection* (GN 1002, December 2011), was promulgated in terms of the National Environmental Management Biodiversity Act (NEM: BA), Act 10 of 2004. According to this National list, Bushmanland Arid Grassland, remains classified as Least Threatened.

Figure 5: Vegetation map of SA, Lesotho and Swaziland (2006)



Bushmanland Arid Grassland is found in the Northern Cape Province spanning about one degree of latitude from around Aggeneys in the west to Prieska in the east. The southern border of the unit is formed by edges of the Bushmanland Basin while in the north-west this vegetation unit borders on desert vegetation (north-west of Aggeneys and Pofadder). The northern border (in the vicinity of Upington) and the eastern border (between Upington and Prieska) are formed with often intermingling units of Lower Gariiep Broken Veld, Kalahari Karroid Shrubland and Gordonia Duneveld. Most of the western border is formed by the edge of the Namaqualand hills. Altitude varies from 600 – 1 200 m (Mucina & Rutherford, 2006).

BUSHMANLAND ARID GRASSLAND

Bushmanland Arid Grassland is described as extensive to irregular plains on a slightly sloping plateau sparsely vegetated by grassland dominated by white grasses (*Stipagrostis* species) giving this vegetation type the character of semi-desert "steppe". Sometimes low shrubs of *Salsola* change the vegetation structure. In years of abundant rainfall rich displays of annual herbs can be expected (Mucina & Rutherford, 2006). Acocks (1953) described this vegetation as Arid Karoo and Desert False Grassland or Orange River Broken Veld while Low & Rebelo (1996) described this vegetation as Orange River Nama Karoo.

According to Mucina & Rutherford (2006) important taxa includes the following:

Graminoids: *Aristida adscensionis*, *A. congesta*, *Enneapogon desvauxii*, *Eragrostis nindensis*, *Schmidtia kalahariensis*, *Stipagrostis ciliate*, *S. Obtuse*, *Cenchrus ciliaris*, *Enneapogon scaber*, *Eragrostis annulata*, *E. porosa*, *E. procumbens*, *Panicum lanipes*, *Setaria verticillata*, *Sporobolus nervosus*, *Stipagrostis brevifolia*, *S uniplumis*, *Tragus berteronianus* and *T racemosus*.

Small trees: *Acacia mellifera*, *Boscia foetida* subsp. *foetida*

Tall shrubs: *Lycium cinereum*, *Rhigozum trichotomum*, *Aptosimum spinescens*, *Hermannia spinosa*, *Pentzia spinescens*, *Aizoon asbestinum*, *Aizoon schellenbergii*, *Aptosimum elongatum*, *Aptosimum lineare*, *A marlothii*, *Barleria rigida*, *Berkheya annectens*, *Eriocephalus ambiguous*, *Eriocephalus spinescens*, *Limeum aethiopicum*, *Polygala seminuda*, *Pteronia leucoclada*, *Tetragonia arbuscula*, *Zygophyllum microphyllum*

Succulent Shrubs: *Kleinia longiflora*, *Lycium bosciifolium*, *Salsola tuberculata*, *S gabrescens*.

Herbs: *Acanthopsis hoffmannseggiana*, *Aizoon canariense*, *Amaranthus praetermissus*, *Dicoma capensis*, *Lotononis platycarpa*, *Sesamum capense*, *Tribulus pterophorus* etc.

VEGETATION ENCOUNTERED

The sparse vegetation encountered conforms to that of Bushmanland Arid Grassland. However, two distinct forms of this vegetation were observed. Most of the larger study area was sparsely but fairly uniformly covered by the same vegetation composition and was also mostly associated with shallow soils in which rocky limestone outcrops were fairly frequently observed. Along the rocky ridge and (shallower sands) typical a sparse open grassy low shrubland was mostly encountered, while on the deeper soils next to the seasonal streams a denser medium shrubland formed a typical riparian zone. Within this zone a number of the protected Camel thorn trees (*Acacia erioloba*) as well as the protected *Boscia foetida* were observed.

The shallow soils (covering most of the proposed final location) support a distinct 2 stratum vegetation cover, with a grassy/shrub bottom layer and a short shrub/small tree over layer. The author did not spend time on the identification of the grass species (which include a number of *Stipagrostis* species etc.), but did make an effort to identify all other species encountered.

Photo 1: Low grassy shrubland encountered on more shallow soils (note the protected *Aloe* species)



Photo 2: Vegetation encountered on deeper sandy soils next to the seasonal streams (note *Acacia erioloba* in the background)



The grassy shrubland covered most of the property and in some areas was dominated by the grassy bottom layer. Shrub and succulent species encountered includes succulent species such as *Aptosimum*, *Aloe*, *Boscia*, *Codon*, *Ornithoglossum*, *Euphorbia*, *Galenia*, *Lycium*, *Thesium*, *Salsola* and *Zygophyllum* (Refer to Table 2 for a list of species encountered on site).

In the deeper sands next to the seasonal streams the vegetation changed slightly in composition and structure. Even though grassy patches still dominate certain areas, larger shrubs and small trees are much more

frequent. Larger shrub was normally dominated by *Acacia mellifera*, *Euphorbia*, *Acacia erioloba*, *Boscia foetida* (along the edges), *Parkinsonia* (occasionally), and *Psilocalaun* (Refer to Table 2 for a list of species encountered on site). The mistletoe *Moquinella rubra* was mostly found in association with *Acacia mellifera*, which sometimes forms a thicket next to portions of the dry river beds. Please note that a large number of magnificent *Acacia erioloba* individuals were observed within and next to the larger seasonal stream to the east of the property, but since they were outside of the proposed site, they were not GPS referenced.

Table 2: List of species encountered on site (excluding grass species)

SPECIES NAME	FAMILY	STATUS
<i>Acacia erioloba</i>	FABACEAE	Protected in terms of the NFA
<i>Acacia mellifera</i>	FABACEAE	
<i>Aloe claviflora</i>	ASPHODELACEAE	All <i>Aloe</i> species are protected in terms of the NCNCA
<i>Aloe</i> species	ASPHODELACEAE	All <i>Aloe</i> species are protected in terms of the NCNCA
<i>Aptosimum spinescens</i>	SCROPHULARIACEAE	
<i>Argemone ochroleuca</i>	PAPAVERACEAE	Alien weed
<i>Asparagus capensis</i>	ASPARAGACEAE	
<i>Blepharis mitrata</i>	ACANTHACEAE	
<i>Boscia foetida</i>	CAPPARACEAE	All <i>Boscia</i> species are protected in terms of the NCNCA
<i>Cylindropuntia fulgida</i>	CACTACEAE	Category 1 invader (emerging invader in the NC)
<i>Codon royenii</i>	HYDROPHYLLACEAE	
<i>Euphorbia cf. caterviflora</i>	EUPHORBIACEAE	All <i>Euphorbia</i> species are protected in terms of the NCNCA
<i>Euphorbia decepta</i>	EUPHORBIACEAE	All <i>Euphorbia</i> species are protected in terms of the NCNCA
<i>Galenia africana</i>	AIZOACEAE	All species are protected in terms of the NCNCA
<i>Kleinia longiflora</i>	ASTERACEAE	
<i>Lycium cinereum</i>	SOLANACEAE	
<i>Monechma</i> species	ACANTHACEAE	
<i>Moquinella rubra</i>	LORANTHACEAE	
<i>Ornithoglossum</i> species	HYACINTHACEAE	All species are protected in terms of the NCNCA
<i>Parkinsonia africana</i>	FABACEAE	
<i>Prosopis grandulosa</i>	FABACEAE	Category 2 invader
<i>Psilocalaun subnodosum</i>	AIZOACEAE	All species are protected in terms of the NCNCA
<i>Rhigozum trichotomum</i>	BIGNONIACEAE	
<i>Salsola tuberculata</i>	AMARANTHACEAE	
<i>Sarcocaulon cf. crassicaule</i>	GERANIACEAE	
<i>Thesium lineatum</i>	SANTALACEAE	
<i>Zygophyllum cf. lichtensteinianum</i>	ZYGOPHYLLACEAE	

ENDEMIC OR PROTECTED PLANT SPECIES

Please note that this study never intended to be full botanical assessment. However, a scan of significant species was done during the site visit, and even though the author does not claim that all species encountered were identified, all efforts were made to do just that. According to Mucina & Rutherford (2006) the following endemic taxa might be encountered in this vegetation type: *Dinteranthus pole-evansii*, *Larryleachia dinteri*, *L marlothii*, *Ruschia kenhardtensis*, *Lotononis oligocephala* and *Nemesia maxi*.

- However, none of these species was observed.

A number of protected tree species in terms of the National Forest Act of 1998 (Act 84 of 1998) have a geographical distribution that may overlap with the broader study area.

- 3 individuals of *Acacia erioloba* were observed which might fall within the proposed site (refer to waypoints, 116, 117 and 161 in Figure 6).

The new Northern Cape Nature Conservation Act 9 of 2009 (NCNCA) also provides for the sustainable utilization of wild animals, aquatic biota and plants through Schedule 1 and 2 of the act. The Act is a very important in that it put a whole new emphasis on a number of Northern Cape species not previously protected in terms of any legislation. Thus even though a project may be located within a vegetation type or habitat previously not considered under immediate threat, special care must still be taken to ensure that listed species (fauna & flora) in terms of the NCNCA are managed correctly.

- Seven species protected in terms of the NCNCA was encountered (refer to Table 2).

Figure 6: Google image showing the location of some of the protected species encountered



Almost all of the *Acacia erioloba* was associated with the deeper sands next to the main water course just east of the proposed site. In addition the *Boscia* species seems to commonly found along the eco-tone between the deeper sand and shallow sands. The two *Aloe* species of which *Aloe claviflora* was especially common, was also located mostly to the eastern and north-eastern portions of the proposed site.

FINE SCALE MAPPING (CBA'S)

Although a draft version of the Siyanda District Municipal, Environmental Management Framework (EMF) is available it has not been approved or published. No fine-scale mapping is as yet available for this area and as a result no critical biodiversity areas or biodiversity support areas has been promulgated for this area.

However, the proposed priorities for conservation in the Siyanda District is depicted on Maps 12a (Refer Figure 15) and 12b within this document, based on local occurrence, the national conservation target, the national ecosystem status and the national protection level of the vegetation types. A proposal is made for the prioritisation of vegetation types in the Siyanda District. The landcover of the Siyanda district reflects the results of the 2000 national landcover determination and is depicted on Map 13 from which it is evident that most of the area is in a natural state and the most significant spatial impact on the environment has come from mining which occupies an area of almost 7% of the total area. A sensitivity index is shown on Map 14 of the Draft EMP. The main factors that were used to compile the index include the following:

- The erosion potential of soil where soils with a high erosion potential were awarded a sensitivity of 1;
- The conservation priority of veld types for veld types with a medium conservation priority were awarded a sensitivity count of 1 those with a high conservation priority were awarded a count of 2 and those with a very high conservation priority were awarded a count of 3;
- Topographical areas with a high variance in shape and form were awarded a sensitivity count of 1;
- All watercourses, drainage lines and pans (including a 32 m buffer on either side) were awarded a sensitivity count of 2; and
- All transformed areas were awarded a sensitivity count of -1.

Environmental control zones are depicted on Map 15 of the EMF. The purpose of environmental control zones is to indicate areas that require a specific type or regime of control due to unique environmental elements that occur in these areas. It may or may not be linked to the application of EIA legislation and should be dealt with at a more strategic level where it should serve as a guide for decision-making and planning.

SUMMARY OF FINDINGS ACCORDING TO THE EMF

According to the Draft Siyanda Environmental Management Framework the proposed site falls within the following categories according to the various maps.

Conservation priority areas: According to Map 12a the site falls within an area regarded as having a Medium (2) conservation priority. According to Map 12b, the site does not fall within a proposed conservation area.

Landcover: According to Map 13 of the Draft EMF, it would seem as if the proposed site falls within the area marked as shrubland.

Sensitivity Index: According to Map 14 of the Draft EMF, the proposed site falls within an area identified as of very low environmental sensitivity (1) in an index which starts at Transformed and then are given values of 0-8 (8 being of high environmental sensitivity).

Control Zones: According to Map 15, the proposed site location falls within a control zone 7 area, which is regarded as a low control zone.

MAMMAL AND BIRD SPECIES

Mammal and bird species were not regarded, as the proposed activity should have very little additional impact on these species (any species would have already been removed as a result of the current activities on site).

At the nearby Augrabies Falls National Park, wildlife includes at least 46 mammal and 186 bird species, as well as a number of reptiles. Most show adaptations to the area's large temperature fluctuations – including smaller animals like slender mongooses, yellow mongooses, and rock dassies – which utilise what little shade there are, sheltering in burrows, rock crevices and fallen trees.

Larger mammals found at Augrabies include steenbok, springbok, gemsbok, kudu, eland and Hartmann's Mountain Zebra (*Equus hartmannae*). The giraffe found at Augrabies are said to be lighter in colour than those found in the regions to the east, allegedly as an adaptation to the extreme heat. One of the most common antelope is the klipspringer, pairs of which are often seen bounding across the rocks by keen-eyed walkers. The main mammalian predators found in Augrabies are black-backed jackals, caracals, bat-eared foxes, African wild cats and an elusive population of leopards.

One reptile here is of particular note: Broadley's flat lizard, locally known as the Augrabies flat lizard, is endemic to this area. It only occurs in an area that is within about 100km of the falls. This reptile is, however, not locally rare and on warm days, the brightly-coloured males can often be seen sparring and dancing for dominance.

Birds in the area includes: Augrabies the black stork and Verreaux's (black) eagles which both breed in the area, and also pygmy falcons. As is common in the Kalahari to the north, pale chanting goshawk is one of the more common raptors, whilst flocks of Namaqua sand grouse are also common. Other species includes peregrine and lanner falcons, and rock kestrels (www.sanparks.org.za).

RIVERS AND WETLANDS

Rivers maintain unique biotic resources and provide critical water supplies to people. South Africa's limited supplies of fresh water and irreplaceable biodiversity are very vulnerable to human mismanagement. Multiple environmental stressors, such as agricultural runoff, pollution and invasive species, threaten rivers that serve the world's population. River corridors are important channels for plant and animal species movement,

because they link different valleys and mountain ranges. They are also important as a source of water for human use. Vegetation on riverbanks needs to be maintained in order for rivers themselves to remain healthy, thus the focus is not just on rivers themselves but on riverine corridors.

Various non-perennial or dry watercourses and drainage lines have been observed, on portions of the Erf. Most of these are smaller drainage lines with only two seasonal streams of which the stream to the east of the property (outside of the current footprint) is the most significant. Almost all of these drainage lines are still in a relative natural state and well maintained. However, to the southwest of the property, illegal dumping and sand mining has made a significant impact on the integrity of the main water course (Refer to Figure 3).

All river and drainage lines on the property will eventually be impacted or will be have to be included into a formal storm water drainage system. Trying to protect the small streams not already transformed will be almost impossible. However, it is recommended that these drainage systems are recognised as important ecological features which should be protected and maintained as such and wherever possible be maintained as natural as possible with adequate buffer zones. In addition, **the main water course to the east of the property is associated with a number of protected species and a corridor similar to at least the 1:50 year flood line should be preserved next to this stream (Refer to Figure 7).**

Figure 7: Google image showing the proposed river corridor



VELD FIRE RISK

Bushmanland Arid Grassland is part of the Nama Karoo Biome (Mucina & Rutherford, 2006) which is not prone to veldfires. The purpose of the revised fire risk classification is to serve as a national framework for implementing the National Veld and Forest Fire Act, and to provide a basis for setting priorities for veldfire management interventions such as the promotion of and support to Fire Protection Associations. In the fire-ecology types and municipalities with High to Extreme fire risk, comprehensive risk management strategies are needed.

The proposed extension of Keimoes is located adjacent to the existing town of Keimoes in an arid sparsely vegetated landscape. According to the revised veldfire risk classification of March 2010 (Forsyth, 2010) in terms of the National Veld and Forest Fire Act 101 of 1998, the site is located in an area classified as a “Low Fire Risk” area. Although, the fire risk is not considered high or extreme it is still important that during construction and operation the site must adhere to all the requirements of the local Fire Protection Association (FPA) if applicable, or must adhere to responsible fire prevention and control measures.

INVASIVE ALIEN INFESTATION

Most probably because of the aridity of the area, invasive alien rates are generally very low for most of this area. Problem areas are usually associated with river systems and other wetland areas. On the proposed site a number of *Prosopis* trees were observed along the drainage lines, and alarmingly also single individuals of the alien *Cylindropuntia fulgida* were also observed just south of the cattle cemetery. *Cylindropuntia fulgida* (Boxing-glove cactus) is an emerging invasive alien species in North West, Free State and Northern Cape Provinces. It is imperative that all individuals of this species as well as those in the immediate surrounding areas are removed as fast as possible. They have the potential of becoming a highly invasive species, which is very hard to control.

All *Prosopis* and all cactus species must be removed from the site.

Photo 3: *Cylindropuntia fulgida* encountered on the Keimoes site



SIGNIFICANT BIODIVERSITY FEATURES ENCOUNTERED

The table underneath gives a summary of biodiversity features encountered during the site visit and a short discussion of their possible significance in terms of regional biodiversity targets.

Table 3: Summary of biodiversity features encountered on Erf 1654, Keimoes and their possible significance

BIODIVERSITY ASPECT	SHORT DESCRIPTION	SIGNIFICANCE RATING
Geology & soils	Geology & soils vary only slightly in the larger study area, with sandy soils found over most of the area.	No special features have been encountered (e.g. true quartz patches or broken veld) and the impact on geology and soils is expected to be very localised and low. Refer to Geology & Soils on page 9 Impact = very low
Land use and cover	Natural veld utilised for stock grazing.	Natural vegetation forms a sparse cover over the entire area of the study area. Two non-perennial streams cross the property from north to south. The study area is situated on communal grazing land, with no development or agricultural practices (apart from some grazing) observed. The Keimoes cemetery is located within the study area and illegal sand mining activities as well as illegal dumping was observed in the south-western portion of the property (Refer to Landuse and Cover page 9). The impact on land use and cover is expected to be <u>very low</u> .
Vegetation types	Bushmanland Arid Grassland	This vegetation type is considered " <u>Least threatened</u> ", and has been mostly transformed due to human activities. According to the draft Siyanda EMF, the vegetation is of medium conservation priority, but of very low environmental significance and does not fall within a proposed conservation area. Impact <u>low</u> .
Conservation priority areas.	In terms of the draft Siyanda EMF	According to the EMF the site also does not fall within a proposed conservation area. Impact <u>low/localised</u> .
Sensitivity index	In terms of the draft Siyanda EMF	According to the EMF, the proposed site falls within an area identified as of very low environmental sensitivity (1). Impact <u>low</u> and localised.
Protected plant species	A number of protected plant species (Refer to Endemic or Protected plant Species, page 14), in terms of the NCNCA and the NFA were observed.	The development will most definitely impact on a number of protected species. Some of these species can be excluded through placement and some could be protected through search & rescue. However, a great many individual plants will be impacted. It should be taken into account that a dedicated search & rescue should be able to rescue most of the significant species (subject to DAFF approval). In addition it should be non-negotiable that all protected tree species must be located and protected (may not be removed or impacted). Also take into account that apart from the Aloe and Ornithoglossum species very few of the other protected species are considered locally scarce. Impact considered being <u>medium to medium/low</u> .
Fauna & Avi-fauna	The site is located right next to the town of Keimoes (and basically within the urban edge) and has been used for live-stock grazing and various other activities.	Although natural fauna and avi-fauna may still be present, it is expected that it would be limited to smaller game, avi-fauna, insects and maybe some reptile's species. The activity is not expected to have a significant additional impact on fauna or avi-fauna. Impact <u>low</u> .
Rivers & wetlands	Various non-perennial or dry watercourses and drainage lines have been observed. Most of these are smaller drainage lines with only two seasonal streams of which the stream to the east of the property (outside of the current footprint) is the most significant.	Almost all of these drainage lines are still in a relative natural state and well maintained. However, to the southwest of the property, illegal dumping and sand mining has significantly impacted on the integrity of that water course. All river and drainage lines on the property will eventually be impacted or will have to be included into a formal storm water drainage system. Trying to protect the small streams not already transformed will be almost impossible. However, it is recommended that these drainage systems are recognised as important ecological features which should be protected and maintained as such and wherever possible be maintained as natural as possible with adequate buffer zones. In addition, the main water course to the east of the property is associated with a number of protected species and a corridor similar to at least the 1:50 year flood line should be preserved next to this stream The impact on rivers is thus considered <u>medium/high</u> . By implementing the above recommendations the impact can be reduced to <u>medium or medium/low</u> .

Invasive alien infestation	A number of <i>Prosopis</i> individuals were observed, but even more alarming was the presence of the alien boxing glove cactus.	All <i>Prosopis</i> species must be removed. NB: The presence of the emerging invasive cactus <i>Cylindropuntia fulgida</i> (Boxing-glove cactus) is most alarming and it is imperative that all individuals of this species as well as those in the immediate surrounding areas are removed as fast as possible. If implemented the impact can be regarded as <u>positive</u> .
----------------------------	--	--

THE NO-GO OPTION

The site visit and desktop studies described and evaluated in this document led to the conclusion that the “No-Go Alternative” alternative will not result in significant gain in regional conservation targets, the conservation of rare & endangered species or gain in connectivity. However, the no-go option will result in the protection of a number of protected species as well as the protection of the river systems. On the other hand urban creep and illegal dumping and sand mining activities have already impacted on large portions of the southern and south-western portions of the property. These impacts are expected to increase over time and may result in a similar physical impact over time (although a much longer period). In addition the No-Go option will result in other areas being investigated for development (as is already the case). These areas may be even less suitable than the current site, which is already impacted to some degree and which is located favourably for the installations of services. At the best the No-Go alternative will result in the need to develop elsewhere.

Portions of this area are already disturbed and the need for providing basic services and housing remains a very urgent need in most towns in the Northern Cape.

RECOMMENDATIONS & IMPACT MINIMIZATION

From the information discussed in this document it is clear to see that the Keimoes B site could be better located with regards to the possible impact on protected species and water courses. However, impact on the regional status of the vegetation type and associated biodiversity features (e.g. watercourses and drainage lines) would likely still be only medium-low. No significant habitat-loss, connectivity or associated impact can be foreseen from locating the low cost housing project on the proposed site. However, the impact on watercourses and protected species can be much reduced through good mitigation.

The site visit and desktop studies described and evaluated in this document led to the conclusion that the “No-Go Alternative” alternative will not result in significant gain in regional conservation targets, the conservation of species or gain in connectivity. At the best the No-Go alternative will only support the “status quo” of the specific site while further land will have to be investigated for development purposes.

With the available information at the author’s disposal it is recommended that the project be approved, if the mitigation measures described in this document is also implemented, especially with regards to the protection of significant water courses and protected species.

IMPACT MINIMIZATION

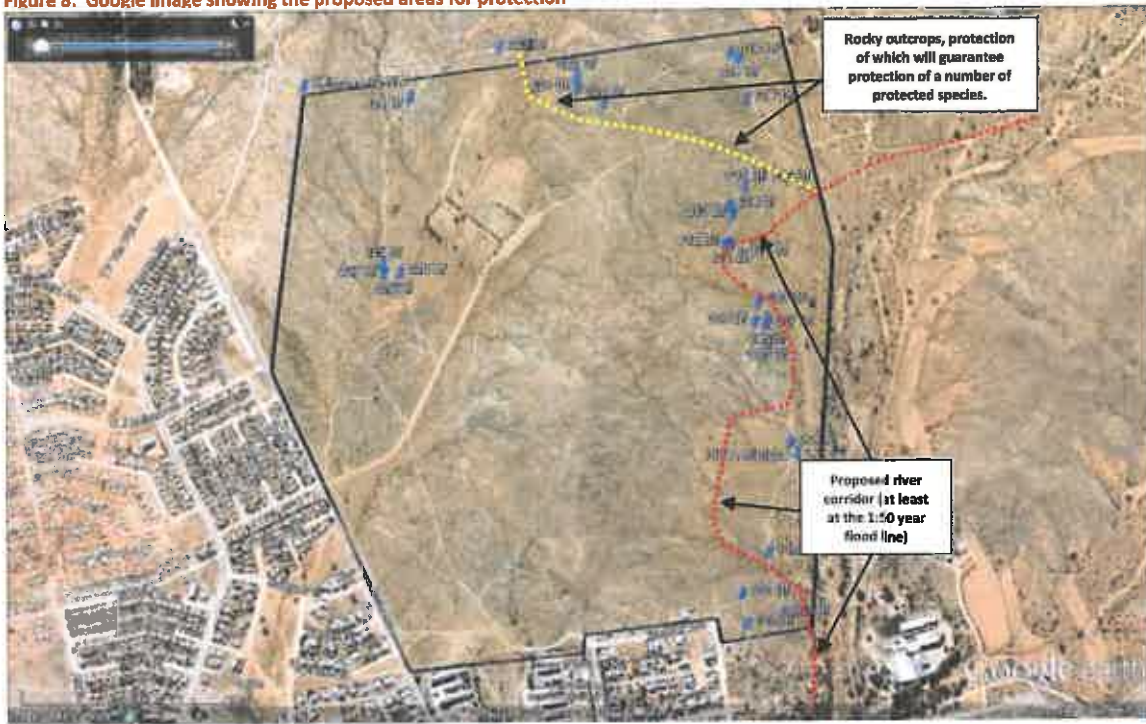
GENERAL

- All construction must be done in accordance with an approved construction and operational phase Environmental Management Plan (EMP), which must be developed by a suitably experienced Environmental Assessment Practitioner.
- A suitably qualified Environmental Control Officer must be appointed to monitor the construction phase of the project in terms of the EMP and the Biodiversity study recommendations as well as any other conditions which might be required by the Department of Environmental Affairs.
- An integrated waste management system must be implemented during the construction phase.
- All rubble and rubbish currently dumped onto the site must be collected and removed from the site to a suitable registered waste disposal site.
- Adequate measures must be implemented to ensure against erosion.

SITE SPECIFIC RECOMMENDATIONS

- The main watercourse to the east of the proposed site should be protected through a physical (fence) barrier (Refer to Figure 8). A viable corridor must be protected next to this river, which should co-inside at least with the 1:50 year flood line or 32 m from the riverbank (whichever is the furthest). This will not only protect the river system and its associated riparian vegetation, but will also incorporate almost all of the protected *Acacia erioloba* trees, a great many of the *Boscia foetida* as well as some of the *Aizoaceae* and *Aloe* species.
- The protection of the rocky area to the northeast of the property (yellow line in Figure 8 underneath) should also be considered. Apart from the fact that the rockiness of the area will hinder development, it harbours a great number of the protected *Aloe* and even *Boscia* individuals.
- All mature trees protected in terms of the National Forest Act, must be identified, mapped and protected and may not be removed. If necessary the layout plans should be adjusted to incorporate any such trees.
- All viable plant species protected in terms of the NCNA that cannot be protected through layout alterations, must be protected through a dedicated search and rescue program (on approval for such removal through the correct permit from the DAFF).
- Permits must be obtained for the removal of any protected species which cannot be avoided.
- As a pre-cautionary measure all other viable herb-, bulbs- and succulent plant species encountered within the footprint should be removed and replanted through a dedicated search and rescue operation.
- Housing layout should aim to protect drainage lines, or ensure that it is incorporated within the storm water system.
- The internal network of services and roads must be carefully planned to minimise the impact on the remaining natural streams on the site.
- All CARA listed invasive alien species encountered on site must be removed. This includes all *Prosopis* species, and specifically, the emerging invasive cactus *Cylindropuntia fulgida* (Boxing-glove cactus), the presence of which is most alarming and it is imperative that all individuals of this species as well as those in the immediate surrounding areas are removed as fast as possible.

Figure 8: Google image showing the proposed areas for protection



APPENDIX D (4)

Heritage Impact Assessment

HERITAGE IMPACT ASSESSMENT
SPECIALIST ARCHAEOLOGICAL STUDY
PROPOSED LOW COST HOUSING PROJECT
ERF 666 (SITE B), KEIMOES
NORTHERN CAPE

Prepared for:

ENVIROAFRICA

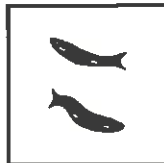
Att: Mr Bernard de Wit
PO Box 5367
Helderberg
7135

E-mail: Bernard@enviroafrica.co.za

On behalf of:

KAI GARIB LOCAL MUNICIPALITY

By



Agency for Cultural Resource Management

5 Stuart Road
Rondebosch
7700

Ph/Fax: 021 685 7589

Mobile: 082 321 0172

E-mail: acrm@wcaccess.co.za

MARCH
2013

Executive summary

ACRM was appointed to conduct a Heritage Impact Assessment (HIA) – specialist archaeological study - for a proposed low cost housing development on Erf 666 (Site B) in Keimoes in the Northern Cape.

About 1200 houses are planned, including associated infrastructure. Two sites (Site 1 & Site 2) have been identified for the construction of low cost housing. Both sites are situated inside the urban edge, adjacent existing formal and shack housing. The combined footprint area is about 146ha, but it is important to note that the layout of the proposed development will not cover the entire site, but will be determined by archaeological and biophysical constraints.

In terms of Section 38 (1) (c) (iii) of the National Heritage Resources Act (NHRA) 1999 (Act 25 of 1999), a HIA of the proposed project is required if the footprint area of the development is more than 5000m².

The HIA forms part of the Basic Assessment process that is being conducted by EnviroAfrica cc.

Much of the top soil has been removed from Site 1, and there are extensive diggings and spoil dumps covering the proposed site. A large rubbish dump occurs on the property and there is a large cemetery situated in the north east. Gravel roads and pedestrian footpaths also intersect the proposed development site. The eastern portion is quite hilly and rocky and according to the biophysical specialist, is not suitable for a housing development.

Site 2 is also quite severely degraded. It is estimated that about 30-40% of the proposed development site is already covered by shacks and the receiving environment has been heavily impacted. Dumping of domestic debris is quite extensive, and there are several drainage channels that intersect the property in the east and west.

A fairly detailed survey of the proposed development site (i. e. Site 1 and Site 2) was undertaken on the 30th and 31st January 2013, in which the following observations were made:

160 archaeological occurrences (numbering more than 250 stone artefacts) were counted and mapped with a hand held GPS device. Most of the implements are spread very thinly and unevenly over the surrounding landscape and are characterised as low density scatters with no spatial coherence.

The majority of the tools are assigned to the Later Stone Age, but a relatively large number of Middle Stone Age lithics are also represented. Only four Early Stone Age tools were encountered. No pottery, bone or ostrich eggshell was found.

Most of the tools comprise flakes and chunks, while many of these pieces are utilized and retouched. Seventeen cores were found, including two flat disc cores, and one large MSA core.

The frequency of formal retouched tools is very low and include, a few end and side scrapers, one boat shaped scraper, two backed pieces and one awl.

Archaeological study proposed low cost housing development, Erf 666 (Site B) Keimoes

More than 90% of the tools are in banded ironstone and was a favoured raw material among hunter gatherer groups for its superior flaking qualities. Banded iron stone dominates many assemblages in the Northern Cape.

Indurated shale is also represented on the site, but in much lower frequencies, while a few tools in quartz, quartzite and opaline were found.

As archaeological sites are concerned, however, the occurrences are lacking in context, as no pottery, ostrich eggshell, bone, or activity areas were identified. Most of the remains occur in a severely disturbed and transformed context.

While the scatters of tools are relatively rich in quantity, they are poor in terms of information that can be constructed from them. As a result the remains have been rated as having low (Grade 3C) archaeological significance.

No colonial heritage resources were noted.

Apart from the formal cemetery in Site 1, no other visible graves were found.

In terms of the built environment, the area has no significance.

It is maintained that the HIA has captured good information on the archaeological heritage and that the study has identified no significant impacts to pre-colonial archaeological material that will need to be mitigated prior to proposed development activities

The results of the study indicate that a proposed low cost housing development on Erf 666 (Site B) in Keimoes will not impact on any important archaeological heritage.

Indications are that in terms of the archaeological heritage, the proposed activity is viable and no fatal flaws have been identified.

The following recommendations are made:

1. No archaeological mitigation is required.
2. Should any unmarked human burials, or ostrich eggshell water flask caches be uncovered during construction activities, these must immediately be reported to the archaeologist (Jonathan Kaplan 082 321 0172), or Ms Katie Smuts at the South African Heritage Resources Agency (021 462 4502).

Table of Contents

	Page
Executive summary	1
1. INTRODUCTION	4
2. HERITAGE LEGISLATION	5
3. TERMS OF REFERENCE	6
4. DESCRIPTION OF THE RECEIVING ENVIRONMENT	6
4.1 Site 1	7
4.2 Site 2	9
5. STUDY APPROACH	11
5.1 Method of survey	11
5.2 Constraints and limitations	11
5.3 Identification of potential risks	11
5.4 Results of the desk top study	11
6. FINDINGS	12
6.1 Site 1	12
6.2 Site 2	15
6.3 Significance of the archaeological remains	15
7. ASSESSMENT OF IMPACTS	16
8. CONCLUSIONS	17
9. RECOMMENDATIONS	17
10. REFERENCES	18
Appendix I. Spreadsheet of waypoints and description of archaeological finds	
Appendix II. Track paths and waypoints	

1. INTRODUCTION

ACRM was appointed to conduct a Heritage Impact Assessment (HIA) – specialist archaeological study - for a proposed low cost housing development on Erf 666 (Site B) in Keimoes (Kai Garib Municipality), in the Northern Cape (Figures 1 & 2).

Erf 666 is owned by the Kai Garib local municipality and has an Undetermined, zoning.

About 1200 houses are planned, including associated infrastructure such as internal streets and services.

Two sites (Site 1 & Site 2) have been identified for the construction of low cost housing. Both sites are situated inside the urban edge. The combined footprint area is about 146ha, but it is important to note that the layout of the proposed development will not cover the entire site, but will be determined by archaeological and biophysical constraints.

In terms of Section 38 (1) (c) (iii) of the National Heritage Resources Act 1999 (Act 25 of 1999), a HIA of the proposed project is required if the footprint area of the development is more than 5000m².

The aim of the study is to locate and map any archaeological heritage that may be impacted by the proposed project, to assess the significance of the potential impacts and to propose measures to mitigate the impacts.

The HIA forms part of the Basic Assessment process that is being conducted by EnviroAfrica cc.

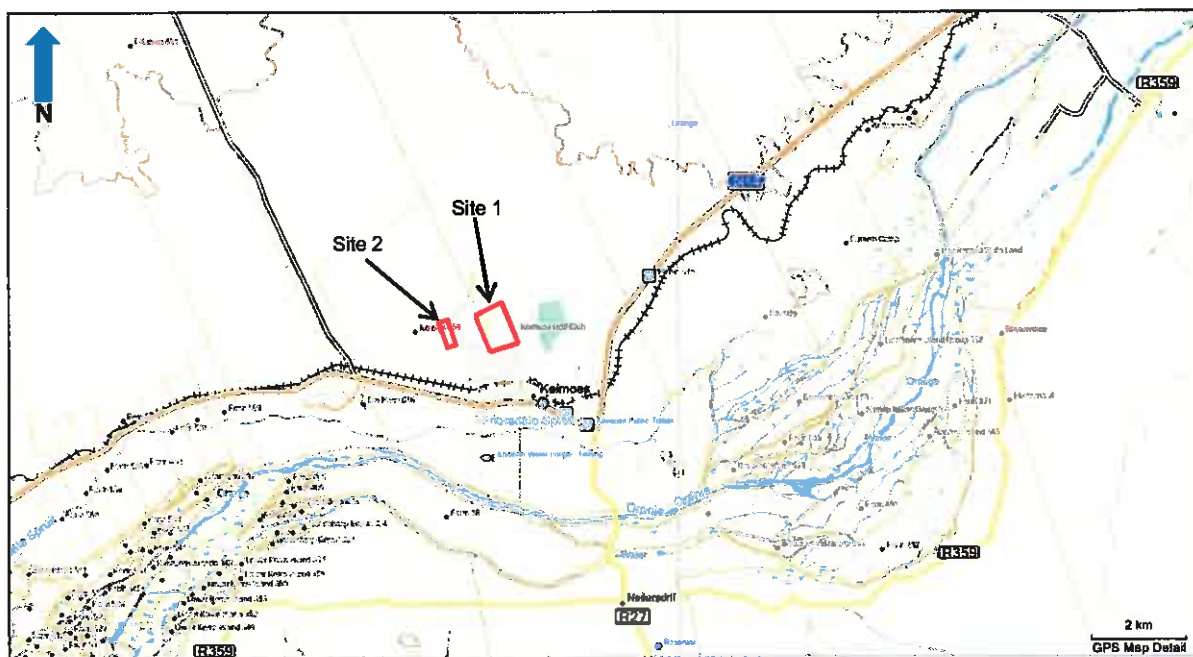


Figure 1. Locality map indicating the location site for the proposed housing development on Erf 666 (Site B), in Keimoes, in the Northern Cape. The proposed development is on two sites.



Figure 2. Google aerial map illustrating the location sites (red polygons) of the proposed development on Erf 666 (Site B).

2. HERITAGE LEGISLATION

The National Heritage Resources Act (Act No. 25 of 1999) makes provision for a compulsory Heritage Impact Assessment (or HIA) when an area exceeding 5000m² is being developed. This is to determine if the area contains heritage sites and to take the necessary steps to ensure that they are not damaged or destroyed during development.

The NHRA provides protection for the following categories of heritage resources:

- Landscapes, cultural or natural (Section 3 (3))
- Buildings or structures older than 60 years (Section 34);
- Archaeological sites, palaeontological material and meteorites (Section 35);
- Burial grounds and graves (Section 36);
- Public monuments and memorials (Section 37);
- Living heritage (defined in the Act as including cultural tradition, oral history, performance, ritual, popular memory, skills and techniques, indigenous knowledge systems and the holistic approach to nature, society and social relationships) (Section 2 (d) (xxi)).

4.1 Site 1

Site 1 is located east of Protea Avenue and north of Blesbok Avenue. The proposed development site is fairly flat and slopes gently to the south. The western portion has been heavily scraped and most of the site is severely degraded (Figures 4-8). There are large diggings, pits and spoil dumps alongside Blesbok Avenue. There are a number of gravel roads and informal footpaths that intersect the property and pedestrian traffic is extensive. There is a large (illegal) dump site alongside Protea Avenue and a large formal cemetery in the north east which is currently being expanded. Several drainage channels intersect the site in the northwest. Where Site 1 slopes south east toward the river and the eastern boundary, the lands are hilly and very rocky, and not suitable for a housing development (refer to Figure 9). According to the biophysical report, the eastern portion of Site 1 is also botanically sensitive (Peet Botes pers. comm.). Surrounding land use is cemetery, residential, schools, church, light industry, oxidation ponds, and vacant land.



Figure 4. Site 1, view facing north from Blesbok Avenue.



Figure 5. Site 1, view facing north

Archaeological study proposed low cost housing development, Erf 666 (Site B) Keimoes



Figure 6. Site 1, view facing north east. Note the rocky hills in the background.



Figure 7. Site 1, view facing south toward Keimoes.



Figure 8. Site 1, view facing north. The cemetery is by the line of trees.



Figure 9. Site 1, view facing south west toward Keimoes

4.2 Site 2

Site 2 is located alongside rows of informal housing off, Alwyn Street, and to the west of Site 1. It is estimated that about 30-40% of the footprint area is already covered by shacks (Figures 10-14). Most of the top soil in the northern portion of the site has been removed and there is very little natural vegetation covering this area. The area west of the drainage channels that cut through the site is covered in dry grass and shrubs, and there are sporadic Acacia trees occurring in places. The western portion of the proposed site is not suitable for housing as it is situated between several drainage channels and is located on an uneven, rocky platform. A wide strip of land east of another drainage channel is surrounded by shack housing, small scale farming, and open space. Much of this portion of the proposed site is severely degraded, while the strip alongside the channel is covered in thick dry grass and underlain by red sands. Surrounding land use is formal and informal housing, and vast tracts of vacant land to the north and west.



Figure 10. Site 2, view facing south. Note the heavily scraped areas.



Figure 11. Site 2, view facing south. This portion of the site (in the west) is covered in dry grass, thorn bush and underlain by red sands



Figure 12. Site 2, view facing south



Figure 13. Site 2, view facing south. Degraded land east of the drainage channel.



Figure 14. Site 2, view facing south. Degraded land east of the drainage channel.

5. STUDY APPROACH

5.1 Method of survey

A foot survey of the proposed development site was undertaken by J. Kaplan on the 30th and 31st January, 2013. A track path of the survey is illustrated in Figures 31-33 (refer to Appendix II). All archaeological remains were mapped and documented *in-situ* using a Garmin Oregon 300, hand held GPS device set on the map datum WGS 84. A desk top study was also done.

5.2 Constraints and limitations

There were no constraints or limitations associated with the study. Archaeological visibility was very good over both Sites 1 and 2.

5.3 Identification of potential risks

Based on the results of the study, there are no archaeological risks associated with the proposed housing development. The fairly detailed foot survey has captured most of the archaeological heritage that is present over the proposed development site.

5.4 Results of the desk top study

Up until about a year ago, very little archaeological work had been done in Keimoes. The first known study undertaken, as part of the EIA process, was for a bulk water supply pipeline between Keimoes and Kenhardt (Kaplan 2008) where both MSA and LSA implements were documented in the road reserve. An AIA for a planned 10MW solar energy facility, situated about 1.5kms north east of Erf 666 (Site B) encountered more than 100 Middle and Later Stone Age (MSA & LSA) implements in banded ironstone (Kaplan 2012). A few ESA tools were also recorded during the study. Only seven MSA and LSA implements were documented during a study for a parallel, low cost housing development on Erf 666 (Site A), about 1 km east of Site 1 (Kaplan 2013). It is not surprising that Stone Age remains are encountered in Keimoes, even inside the urban

edge of the town, considering that "thousands of square kilometres of Bushmanland are covered by a low density lithic scatter" (Beaumont et al 1995:240).

6. FINDINGS

6.1 Site 1

Ninety-one archaeological occurrences numbering about 154 stone tools were mapped and counted on Site 1 (refer to Table 2 in Appendix I). The majority of the tools belong to the LSA, but a well-represented number of MSA flakes and a few blades were also found, including a double-sided retouched pointed flake (697). No MSA formal tools such as unifacial or bifacial points were found, however. Five ESA flakes were found, including two bifaces (634 & 702). This pattern of distribution and frequency of type, mirrors that which was encountered during the study for a proposed solar energy facility, located about 2 kms north east of the affected property (Kaplan 2012 & refer to Figure 2).

The majority of the LSA remains comprise flakes and chunks, many of them utilized and/or retouched. Several bladelets were also found. No pottery, bone or ostrich eggshell was found. No evidence of any factory or workshop site, or the result of any human settlement was identified.

Thirteen cores were counted, indicating a relatively high incidence of flaking on the property. These comprised mostly round cores (in banded ironstone), but one disc core (619), one irregular opaline core (630), and one large round MSA core (642) in indurated shale was also counted.

Most of the tools are spread very thinly and unevenly over the surrounding area, and occur in a severely disturbed and degraded context.

The frequency of formal retouched LSA tools is very low, but one possible boat-shaped scraper (641), one end scraper (653), and one possible side scraper (694) was found. One snapped backed flake (641) and one hammerstone (682) was also found.

In terms of raw material frequencies, more than 95% of the tools are in banded ironstone, while the remainder is in indurated shale, quartz and opaline. Banded ironstone is known to have been a favoured raw material among hunter-gatherer groups for making stone artefacts, and occurs on a number of sites that have been documented by the archaeologist. It occurs widely in the region and was clearly a desirable raw material for its superior flaking qualities.

The ruins of, a house/foundations were encountered on a rocky hillock in the north eastern portion of Site 1. An engraved piece of asbestos (dated 21-08-85), two concrete filled metal drums, some domestic debris (glass, rusted metal, asbestos), and rubble were also found (Figures 22 & 23). No other structures were found in the surrounding area. The ruin does not have any heritage value.

A collection of tools encountered during the study are illustrated in Figures 15-26.



Figure 15. Site 1. Collection of tools. Scale is in cm



Figure 18. Site 1. Collection of tools. Scale is in cm



Figure 16. Site 1. Collection of tools. Scale is in cm



Figure 19. Site 1. Collection of tools. Scale is in cm



Figure 17. Site 1. Collection of tools. Scale is in cm



Figure 20. Site 1. Collection of tools 1. Scale is in cm

Archaeological study proposed low cost housing development, Erf 666 (Site B) Keimoes



Figure 21. Collection of tools. Site 1, Scale is in cm



Figure 24. Site 1. Collection of tools. Scale is in cm



Figure 22. Site 1. 675. Old foundations & debris



Figure 25. Site 1. ESA tools. Scale is in cm



Figure 23. Site 1. Asbestos sheet with date



Figure 26. Site 1. Collection of tools. Scale is in cm

6.2 Site 2

Sixty-nine archaeological occurrences, numbering at least 102 stone artefacts were documented in Site 2 (refer to Table 2 in Appendix I). Like Site 1, the majority of the finds are assigned to the LSA, followed by artefacts characterised as MSA. No ESA tools were found. No organic remains such as pottery, bone or ostrich eggshell was found either.

Most of the tools are spread very thinly over the surrounding landscape, but very few tools were located east of the main drainage channel (refer to Figure 31), where the receiving environment is underlain by red sands, and is also heavily degraded (refer to Figures 13 & 14). A number of implements were encountered west of the drainage channel but these occur within the 30 m buffer zone. It can be said therefore, that most of the implements were documented in the western portion of the proposed development site, but that no evidence of any factory or workshop site, or the result of any human settlement was identified. One small scatter (725) numbering about nine implements, including a double-sided retouched flake, several modified flakes and chunks, and a minimal core was recorded on rocky gravels alongside the drainage channel in the south west. A small pile of tools (762), that included chunks and retouched/utilized pieces, possibly collected by kids playing in the area, was also encountered on the rocky gravelly ridge in the elevated western portion of the site.

Overall, however the majority of the remains (mainly single, isolated occurrences) comprise modified flakes, chunks, and a few blade-like tools. One step-retouched flake (748) and one backed piece (753) was also found. Only four cores were counted, including one disc core (776).

The frequency of formal retouched tools is very low, and comprised one LSA end scraper (715) made on an older MSA flake, one side scraper (717), one backed blade (718), one beautifully made MSA retouched point, and one awl (759).

In terms of raw material frequencies, more than 95% of the tools are made on banded ironstone, while the remainder is in indurated shale, quartzite (757), opaline and quartz.

A collection of tools documented during the study is illustrated in Figures 27-30.

6.3 Significance of the archaeological remains

As archaeological sites are concerned, the occurrences are lacking in context. While the random scatters of tools are relatively rich in quantity, they are poor in terms of information that can be constructed from them. No organic remains such as bone, pottery or ostrich eggshell was found. As a result the remains have been rated as having low (Grade 3C) archaeological significance.

The tools described and documented above are identical to those which were encountered on the proposed solar energy site, which are also dominated by LSA elements (Kaplan 2012 & refer to Figure 2).



Figure 27. Site 2. Collection of tools. Scale is in cm



Figure 29. Site 2. Collection of tools. Scale is in cm



Figure 28. Site 2. Collection of tools. Scale is in cm



Figure 30. Site Collection of tools. Scale is in cm

7. ASSESSMENT OF IMPACTS

The overall impact of the proposed development on the archaeological heritage is rated as being Low (Table 1).

Potential impacts on archaeological heritage	
Extent of impact:	Site specific
Duration of impact;	Permanent
Intensity	Low
Probability of occurrence:	Improbable
Significance without mitigation	Low
Significance with mitigation	Low
Confidence:	High

Table 1. Assessment of archaeological impacts, Site 1 and Site 2 Erf 666 (Site B).

8. CONCLUSION

The HIA has captured good information on the archaeological heritage present. The study has, however, identified no significant impacts to pre-colonial archaeological material that will need to be mitigated prior to proposed development activities.

The majority of the tools comprise single, isolated occurrences that occur in a disturbed or degraded context. Very few formal tools were found.

While a relatively large number of stone implements were encountered, the receiving environment is not considered to be a sensitive archaeological landscape.

Indications are that in terms of the archaeological heritage, the proposed activity is viable.

9. RECOMMENDATIONS

With regard to the proposed construction of low cost housing units on Erf 666 (Site B) in Keimoes, the following recommendations are made:

1. No archaeological mitigation is required.
2. Should any unmarked human burials or ostrich eggshell water flask caches be uncovered, or exposed during construction activities, these must immediately be reported to the archaeologist (Jonathan Kaplan 082 321 0172), or Katie Smuts at SAHRA (021 462 4502). Burials must not be removed or disturbed until inspected by the archaeologist.

10. REFERENCES

Beaumont, P.B. & Vogel, J.C. 1984. Spatial patterning of the ceramic Later Stone Age in the northern Cape Province, South Africa. In: Hall, M., Avery, G., Avery, D.M., Wilson, M.L. & Humphreys, A.J.B. (eds) *Frontiers: southern African archaeology today: 80-95*. Oxford: British Archaeological Reports International Series 207.

Kaplan, J. 2013. Archaeological Impact Assessment proposed low cost housing project Erf 666 (Site A), Keimoes. Report prepared for EnviroAfrica. ACRM Cape Town.

Kaplan, J. 2012. Archaeological Impact Assessment the proposed Keren Energy Keimoes Solar Plant on Erf 666, Keimoes. Report prepared for EnviroAfrica. ACRM Cape Town.

Kaplan, J. 2008. Phase 1 Archaeological Impact Assessment proposed construction of a water treatment plant and supply pipeline from Keimoes to Kenhardt, Western Cape Province. Report prepared for EnviroAfrica. Agency for Cultural Resource Management.

Archaeological study proposed low cost housing development, Erf 666 (Site B) Keimoes

Appendix I

Spreadsheet of waypoints and description of archaeological finds

Archaeological study proposed low cost housing development, Erf 666 (Site B) Keimoes

Site	Farm Name	Lat/Long	Description of archaeological finds
	Erf 666 Keimoes		
Site 1			
616		S28 41.604 E20 57.475	Weathered, indurated shale retouched MSA flake. Large banded ironstone flake & MRP, chunk & core near dump alongside pit – Blesbok Avenue
617		S28 41.737 E20 57.551	Large, chunky banded ironstone flake, slightly weathered nicked and retouched - alongside pit – Blesbok Ave
618		S28 41.661 E20 57.508	Large, round banded ironstone core & indurated shale cobble/cortex flake near diggings and rubbish
619		S28 41.640 E20 57.496	Weathered indurated shale partial disc core
620		S28 41.623 E20 57.486	Small, flat utilized banded ironstone flake, and chunky cobble/cortex retouched banded ironstone flake
621		S28 41.548 E20 57.473	Step retouched banded ironstone flake, chunky retouched blade/flake, weathered MSA indurated shale flake
622		S28 41.556 E20 57.491	Weathered MSA indurated shale partially retouched flake on quartz gravels.
623		S28 41.653 E20 57.530	Cortex cobble banded iron stone core on quartz gravels, inc. chunk and utilized/retouched flake, retouched/utilized snapped MSA flake
624		S28 41.659 E20 57.544	Thin, flat, utilized MSA flake. and chunk on quartz gravels.
625		S28 41.734 E20 57.586	Chunk/broken banded ironstone core
626		S28 41.691 E20 57.598	X 2 small retouched banded ironstone chunks, thin indurated shale utilized flake, large chunk, weathered retouched broken indurated shale cortex chunk
627		S28 41.670 E20 57.587	Weathered indurated shale chunk, slightly weathered/burnished utilized/retouched ironstone chunk, small indurated shale flake, small retouched and utilized banded ironstone flake – quartz gravels
628		S28 41.640 E20 57.571	X 2 utilized and retouched banded ironstone flakes, and small ironstone chunk – quartz gravels
629		S28 41.627 E20 57.566	X 2 small iron stone flakes, and utilized/misc. retouched ironstone flake – quartz gravels
630		S28 41.604 E20 57.556	Red opaline chunk/ core
631		S28 41.569 E20 57.525	Small indurated shale chunk
632		S28 41.564 E20 57.522	Broken indurated shale cobble/cortex chunk
633		S28 41.549 E20 57.511	Indurated shale chunk and small ironstone chunk
634		S28 41.542 E20 57.509	ESA biface
635		S28 41.534 E20 57.508	Small indurated shale utilized/retouched flake, small side struck utilized bladelet, x 2 ironstone chunks, larger utilized/retouched ironstone flake
636		S28 41.513 E20 57.494	Ironstone chunk
637		S28 41.517 E20 57.516	Retouched ironstone chunk
638		S28 41.534 E20 57.523	Ironstone chunk
639		S28 41.568 E20 57.532	ESA flake
640		S28 41.593 E20 57.544	Indurated shale cobble/chunk, ironstone utilized/retouched flake
641		S28 41.754 E20 57.595	Small retouched flake (?boat shaped scraper), snapped backed blade
642		S28 41.763 E20 57.595	Large round weathered indurated shale MSA core

Archaeological study proposed low cost housing development, Erf 666 (Site B) Keimoes

			and quartz chunk
643		S28 41.700 E20 57.608	Small, flat, double sided retouched chunky pointed flake, x 2 ironstone flakes, 1 small chunk – outcropping of rock alongside Blesbok Av.
644		S28 41.699 E20 57.620	4 flakes and chunk
645		S28 41.682 E20 57.618	Weathered split, slightly retouched indurated shale cobble, ironstone chunk, quartz chunky MSA flake
646		S28 41.661 E20 57.616	Ironstone chunk
647		S28 41.653 E20 57.613	Broken/snapped ironstone utilized cortex flake
648		S28 41.645 E20 57.608	Ironstone chunk
649		S28 41.589 E20 57.583	Utilized/retouched ironstone flake
650		S28 41.562 E20 57.563	Large ESA flake
651		S28 41.650 E20 57.618	Ironstone chunk
652		S28 41.642 E20 57.643	MSA utilized/misc. retouched ironstone flake
653		S28 41.621 E20 57.639	End retouched ?scraper , chunky flake, retouched flake, chunk/minimal core – all banded ironstone
654		S28 41.611 E20 57.623	Retouched/utilized chunky ironstone flake
655		S28 41.498 E20 57.544	Misc. retouched chunky ironstone flake
656		S28 41.561 E20 57.617	Large flat indurated shale MSA cortex flake, utilized/retouched ironstone flake, chunk
657		S28 41.544 E20 57.618	X 2 ironstone chunks
658		S28 41.532 E20 57.602	Chunky ironstone flake
659		S28 41.521 E20 57.591	Ironstone chunk
660		S28 41.487 E20 57.550	Ironstone flake
661		S28 41.483 E20 57.585	Banded ironstone chunk/minimal core
662		S28 41.505 E20 57.610	Large, round indurated shale cobble chunk/ core
663		S28 41.504 E20 57.610	Misc. retouched ironstone chunk
664		S28 41.491 E20 57.602	Ironstone flake
665		S28 41.472 E20 57.611	Small ironstone irregular core
666		S28 41.593 E20 57.665	Utilized/retouched chunk
667		S28 41.631 E20 57.656	Flake
668		S28 41.648 E20 57.660	X 3 chunks, 1 flake – banded ironstone
669		S28 41.696 E20 57.714	Sharp edged pointed indurated shale flake
670		S28 41.606 E20 57.674	Chunk
671		S28 41.559 E20 57.657	Ironstone chunk and core
672		S28 41.476 E20 57.663	Edge retouched indurated shale weathered cortex chunk
673		S28 41.420 E20 57.668	Chunk
674		S28 41.503 E20 57.765	Ironstone core
675		S28 41.493 E20 57.784	Ruins/foundations and debris from home
676		S28 41.461 E20 57.742	Ironstone chunk
677		S28 41.404 E20 57.664	Ironstone chunk
678		S28 41.449 E20 57.661	Ironstone chunk
679		S28 41.457 E20 57.665	Thin, utilized banded ironstone flake
680		S28 41.457 E20 57.648	Large banded ironstone broken, chunky flake
681		S28 41.433 E20 57.627	Large chunk
682		S28 41.389 E20 57.601	?hammerstone
683		S28 41.356 E20 57.652	Ironstone chunk
684		S28 41.353 E20 57.675	Ironstone chunk and flake
685		S28 41.319 E20 57.669	Broken MSA utilized ironstone flake
686		S28 41.284 E20 57.680	X 2 ironstone chunk with min. retouch
687		S28 41.244 E20 57.646	Double sided retouched ironstone bladelet/flake
688		S28 41.196 E20 57.563	Banded iron stone core
689		S28 41.200 E20 57.479	Ironstone chunk

Archaeological study proposed low cost housing development, Erf 666 (Site B) Keimoes

690		S28 41.232 E20 57.459	Large chunk, and flake – banded ironstone
691		S28 41.215 E20 57.433	X 2 retouched flakes, weathered indurated shale chunk
692		S28 41.230 E20 57.433	Ironstone chunk and retouched chunk
693		S28 41.260 E20 57.429	ESA flake indurated shale, x 2 ironstone chunks
694		S28 41.241 E20 57.410	Retouched chunk/? side scraper on cobble flake , chunk – all in banded ironstone
695		S28 41.252 E20 57.395	Retouched cortex chunk
696		S28 41.305 E20 57.420	Utilized/retouched ironstone flake
697		S28 41.293 E20 57.395	Double sided retouched ironstone flake
698		S28 41.280 E20 57.382	Retouched ironstone flake
699		S28 41.297 E20 57.360	Chunk
700		S28 41.307 E20 57.375	Chunk
701		S28 41.314 E20 57.382	Ironstone flake
702		S28 41.350 E20 57.433	ESA biface
703		S28 41.368 E20 57.352	Round core
704		S28 41.346 E20 57.331	Retouched MSA ironstone flake
705		S28 41.308 E20 57.314	X 3 chunk, 1 flake – banded ironstone
706		S28 41.308 E20 57.314	Chunk and flake – banded ironstone
Site 2			
707		S28 41.385 E20 56.825	Banded ironstone core
708		S28 41.400 E20 56.817	Ironstone chunk
709		S28 41.450 E20 56.809	Snapped ironstone retouched/utilized blade
710		S28 41.464 E20 56.807	Snapped/broken retouched ironstone flake
711		S28 41.554 E20 56.822	Chunky, retouched ironstone flake
712		S28 41.591 E20 56.891	Chunk
713		S28 41.591 E20 56.899	Weathered, retouched ironstone flake
714		S28 41.590 E20 56.903	End retouched weathered ironstone MSA flake
715		S28 41.595 E20 56.903	Chunk and flake – banded ironstone
716		S28 41.571 E20 56.806	Utilized and retouched banded ironstone flake
717		S28 41.599 E20 56.795	Retouched flake/? side scraper on chunky rounded flake
718		S28 41.687 E20 56.772	Retouched/ backed ironstone bladey flake
719		S28 41.722 E20 56.759	Ironstone chunk
720		S28 41.731 E20 56.753	Snapped, retouched ?MSA chunky ironstone flake
721		S28 41.738 E20 56.753	Chunk
722		S28 41.762 E20 56.744	Ironstone cortex cobble core
723		S28 41.770 E20 56.740	Chunk – cortex cobble
724		S28 41.796 E20 56.722	Small chunk
725		S28 41.818 E20 56.692	Low density scatter – including double sided retouched flake, indurated shale cortex chunk, large indurated shale chunk, x 2 ironstone flakes, chunk/minimal core , chunk, larger indurated shale chunk, retouched/utilized ironstone flake on rocky gravels above drainage channel.
726		S28 41.808 E20 56.694	Ironstone flake
727		S28 41.801 E20 56.696	X 2 chunks, x 2 flakes – banded ironstone
728		S28 41.796 E20 56.697	Large chunk/core, and chunk – banded ironstone
729		S28 41.790 E20 56.700	X 2 chunks, and flake – banded ironstone
730		S28 41.771 E20 56.710	Chunk
731		S28 41.747 E20 56.719	Retouched flake – ironstone
732		S28 41.715 E20 56.733	MSA flake – banded ironstone
733		S28 41.708 E20 56.735	Broken retouched flake – ironstone
734		S28 41.703 E20 56.736	Flake – ironstone

Archaeological study proposed low cost housing development, Erf 666 (Site B) Keimoes

735		S28 41.697 E20 56.739	Banded ironstone utilized flake
736		S28 41.661 E20 56.746	Banded ironstone partially utilized/nicked flake
737		S28 41.646 E20 56.748	Banded ironstone flake
738		S28 41.643 E20 56.750	Retouched ironstone chunk
739		S28 41.635 E20 56.752	Snapped, retouched MSA ironstone flake, & flake
740		S28 41.598 E20 56.758	Chunk/core, & retouched ironstone flake
741		S28 41.593 E20 56.760	Retouched cobble/cortex chunk – ironstone
742		S28 41.587 E20 56.762	Large indurated shale chunk and utilized/retouched ironstone flake
743		S28 41.581 E20 56.764	Retouched ironstone flake
744		S28 41.524 E20 56.781	Utilized flake/chunk - ironstone
745		S28 41.493 E20 56.787	Ironstone flake
746		S28 41.477 E20 56.789	Ironstone utilized flake
747		S28 41.443 E20 56.780	Chunk
748		S28 41.544 E20 56.740	Chunk, and step flaked flake – banded ironstone
749		S28 41.572 E20 56.734	Lovely MSA retouched ironstone flake
750		S28 41.574 E20 56.733	Flake and chunk
751		S28 41.579 E20 56.730	Chunk
752		S28 41.607 E20 56.723	Chunk and indurated shale retouched cobble flake
753		S28 41.632 E20 56.719	Ironstone chunk with backed retouch
754		S28 41.644 E20 56.719	Weathered, retouched/nicked indurated shale flake
755		S28 41.648 E20 56.719	Retouched/utilized ironstone flake
756		S28 41.685 E20 56.702	Chunk
757		S28 41.692 E20 56.699	Chunky quartzite MSA blade
759		S28 41.700 E20 56.698	Weathered indurated shale retouched/nicked flake, banded ironstone retouched/utilized flake (?awl)
760		S28 41.723 E20 56.696	Flake
761		S28 41.729 E20 56.698	Partially retouched ironstone flake
762		S28 41.730 E20 56.699	Small pile of stacked tools, including chunks, flaked chunk, retouched/utilized flake, indurated shale flake, quartz chunk – possibly collected by kids.
763		S28 41.745 E20 56.700	Chunk
764		S28 41.750 E20 56.701	Flake
765		S28 41.768 E20 56.706	Flake
766		S28 41.756 E20 56.709	Retouched chunky ironstone flake
767		S28 41.713 E20 56.705	Flake
768		S28 41.677 E20 56.701	Core reduced flake and flat flake – banded ironstone
770		S28 41.657 E20 56.702	MSA banded ironstone flake
771		S28 41.634 E20 56.702	Chunk and flake
772		S28 41.605 E20 56.705	Red opaline chunk
773		S28 41.576 E20 56.712	Chunk
774		S28 41.569 E20 56.714	Chunky MSA retouched ironstone flake
775		S28 41.469 E20 56.777	Small ironstone flake and chunk
776		S28 41.447 E20 56.787	Flat indurated shale disc/prepared core
777		S28 41.430 E20 56.793	Ironstone flake
778		S28 41.371 E20 56.822	Banded ironstone flake

Table 1. Spreadsheet of waypoints and description of archaeological finds

Archaeological study proposed low cost housing development, Erf 666 (Site B) Keimoes

Appendix II

Track paths and waypoints of archaeological finds

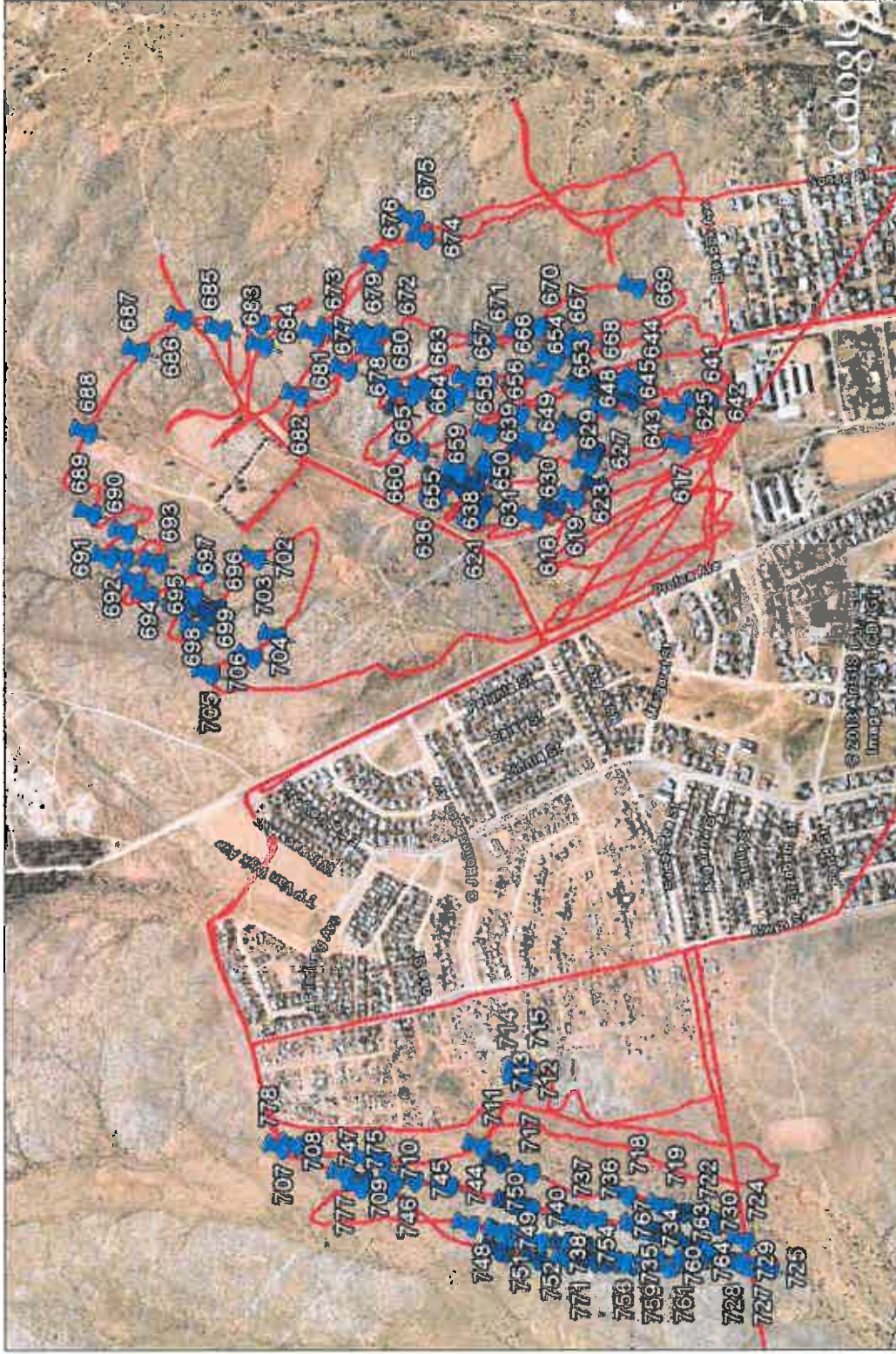


Figure 31. Track paths and waypoints of archaeological finds (Site 1 & Site 2).

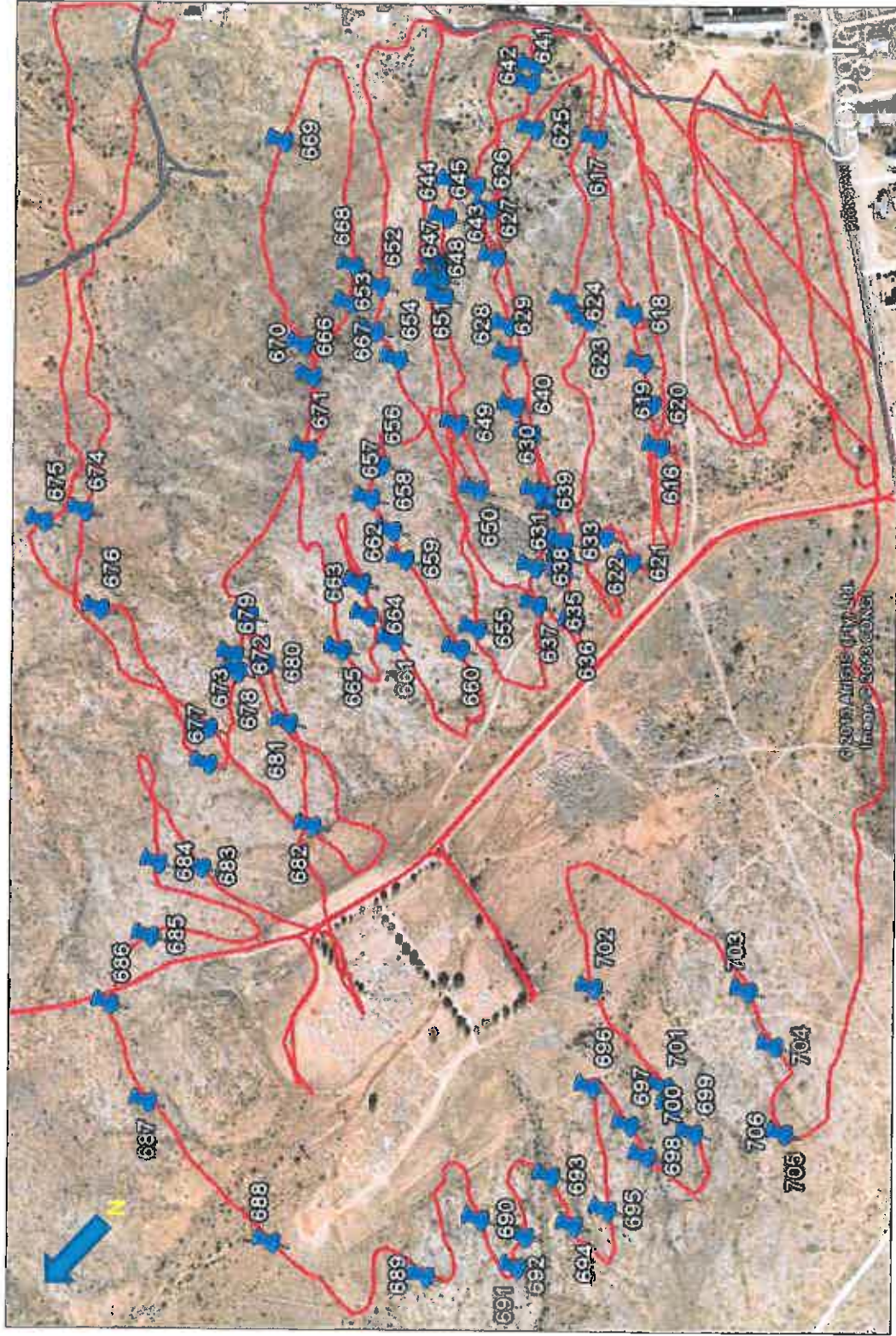


Figure 32. Track path and waypoints of archaeological finds (Site 1).

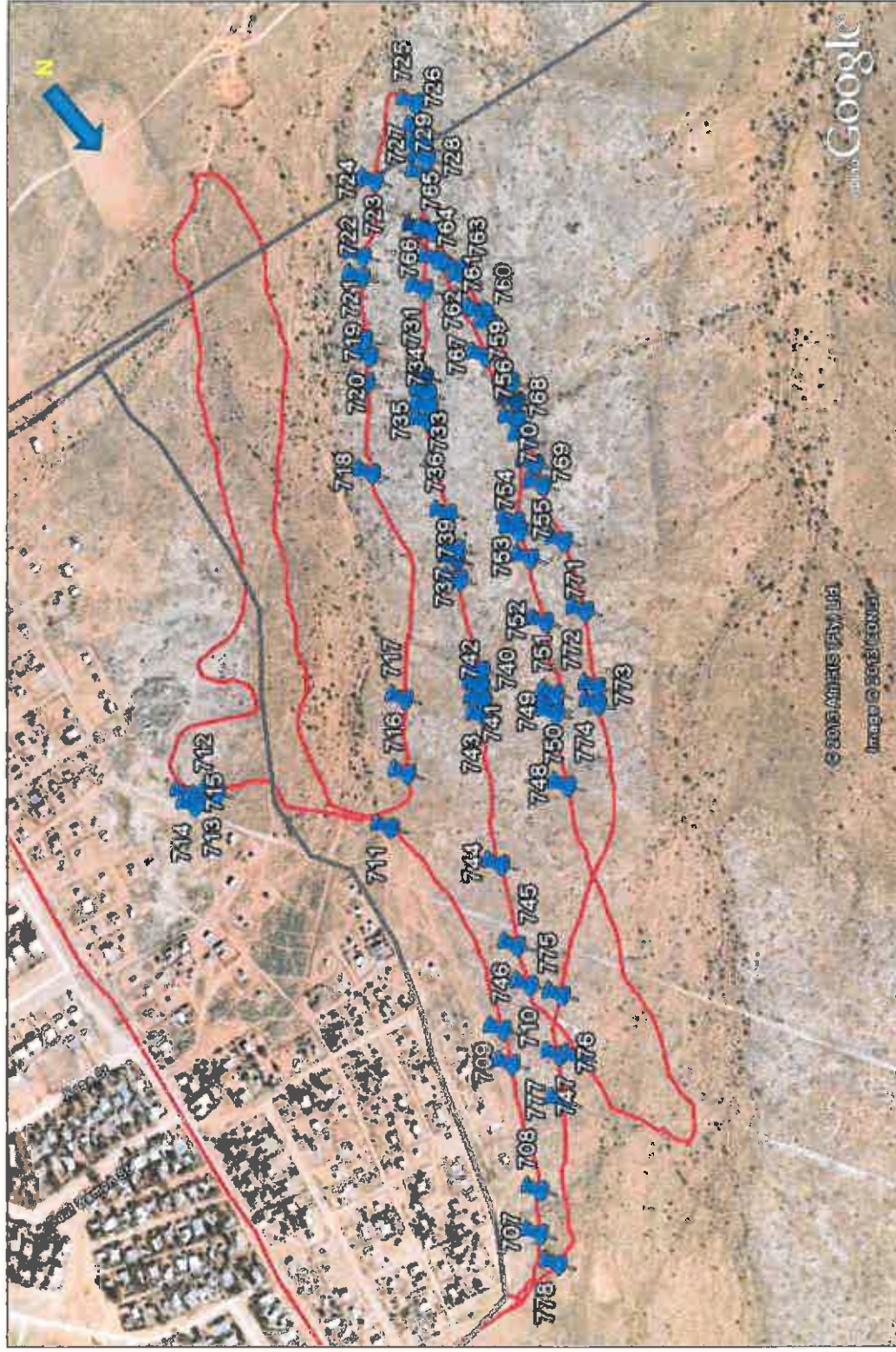


Figure 33. Track path and waypoints of archaeological finds (Site 2).

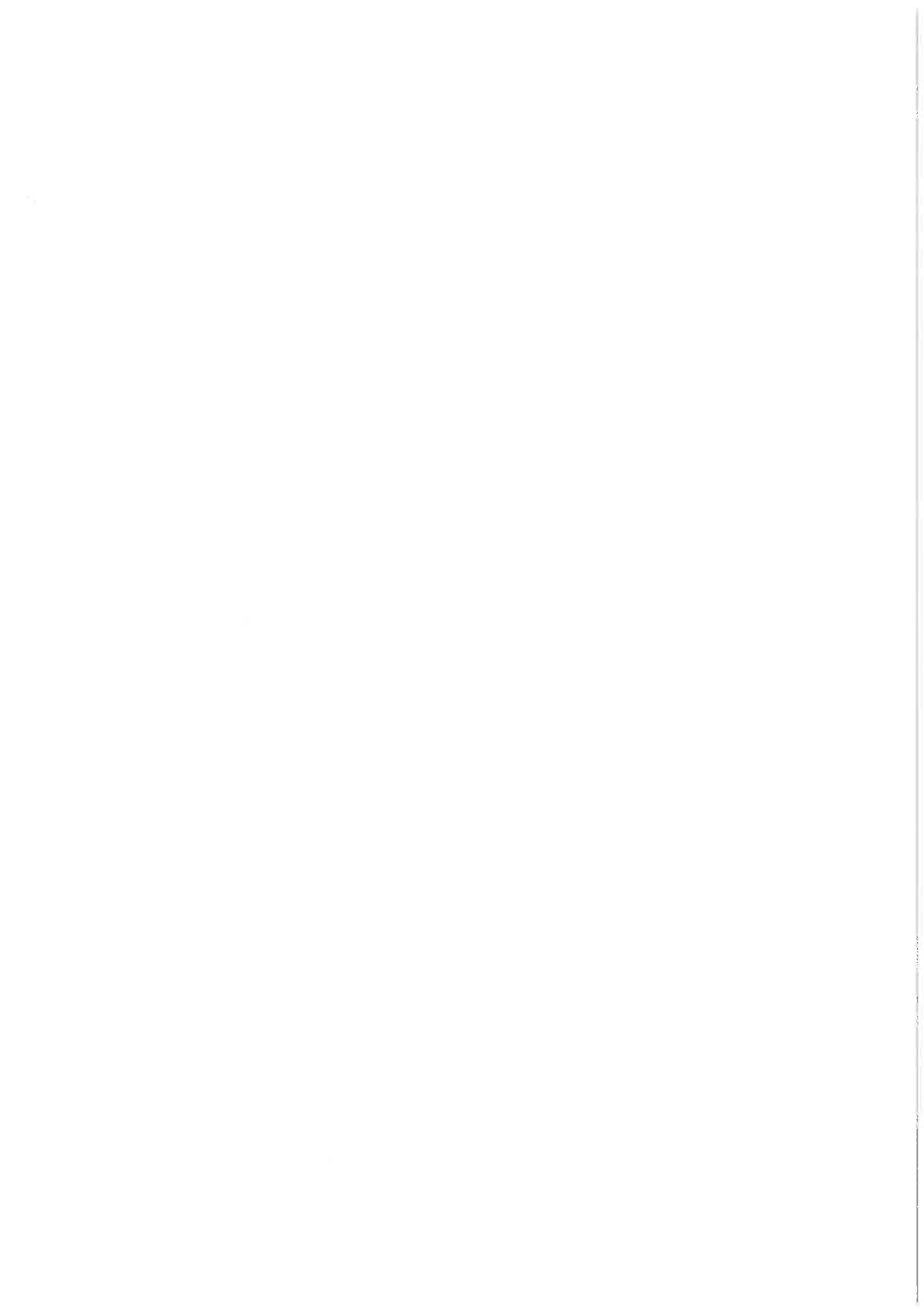
Appendix E

Public Participation

APPENDIX E:

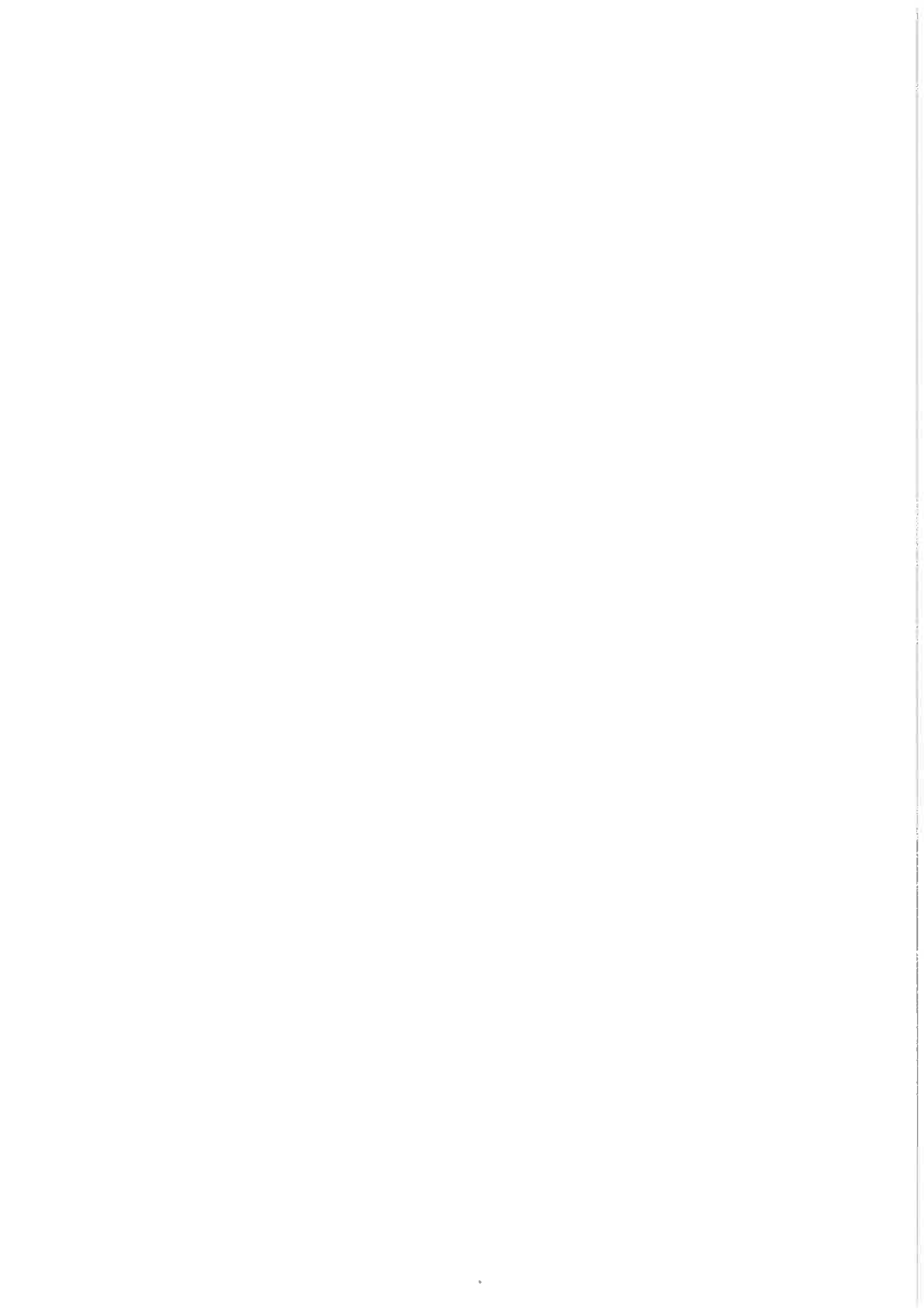
PUBLIC PARTICIPATION:

- 1) Interested and Affected Party list**
- 2) Proof of posters, notification letters and advertisements**
- 3) Comments and response report**



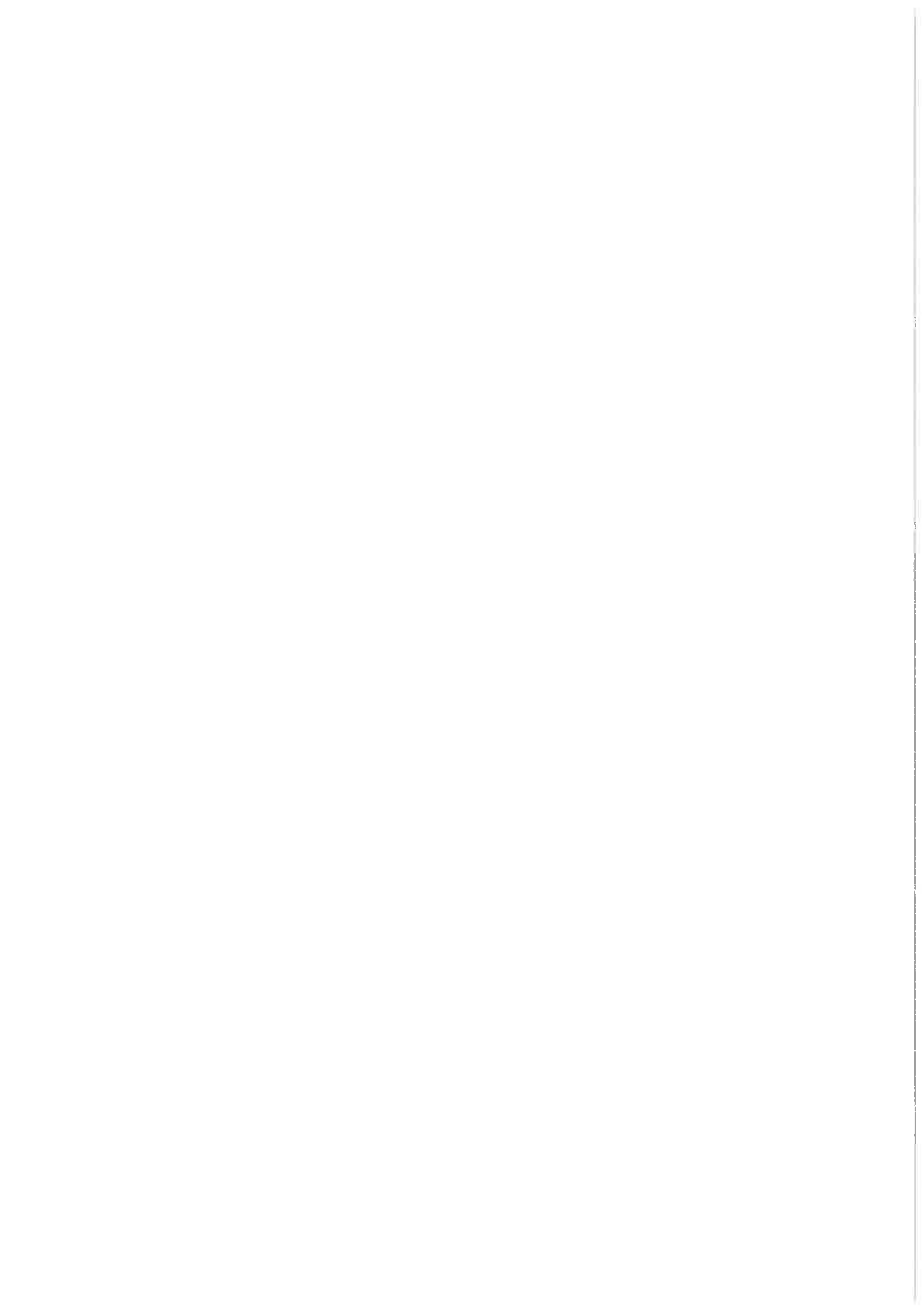
APPENDIX E (1)

Interested and Affected Party List



APPENDIX E (2)

**Proof posters, notification letters and
advertisements**



EnviroAfrica

Environmental Planning and Impact Assessment Consultants
 Omnipresent Planning and Impact Assessment Consultants

INVITATION TO COMMENT

Registered ISAPs 2012

ISAP List for: **Kaj/Carelab ICH** DEADP Ref:
 Address: **Pharost** Date:

No. Title	Subsidiary/Name	Business	Affiliation	Postal Address	Town/City	Code	Telephone	Fax	E-mail
1.1	Mr Patrick	Wells	Kaj/Carelab Municipality	Private Bag 25	Kilimanjaro	6800			
2.1	Mr Patrick	Wells	Kaj/Carelab Municipality	Private Bag 25	Kilimanjaro	6800			
3.1	Mr Patrick	Wells	Kaj/Carelab Municipality	Private Bag 25	Kilimanjaro	6800			
4.1	Mr D	Nyungu (Municipal Manager)	Shyamba District Municipality	Private Bag 2609	Utopia	6800	(020) 657 2600		
5.1	Municipal Manager	Abraham Yonko	Kaj/Carelab Municipality	P.O. Box 8	Kilimanjaro	6800			
5.2	Mr Patrick	Wells	Kaj/Carelab Municipality	P.O. Box 8	Kilimanjaro	6800			
5.3	Mr Patrick	Wells	Kaj/Carelab Municipality	P.O. Box 8	Kilimanjaro	6800			
5.4	Mr Patrick	Wells	Kaj/Carelab Municipality	P.O. Box 8	Kilimanjaro	6800			
5.5	Mr Patrick	Wells	Kaj/Carelab Municipality	P.O. Box 8	Kilimanjaro	6800			
5.6	Mr Patrick	Wells	Kaj/Carelab Municipality	P.O. Box 8	Kilimanjaro	6800			
5.7	Mr Patrick	Wells	Kaj/Carelab Municipality	P.O. Box 8	Kilimanjaro	6800			
5.8	Mr Patrick	Wells	Kaj/Carelab Municipality	P.O. Box 8	Kilimanjaro	6800			
5.9	Mr Patrick	Wells	Kaj/Carelab Municipality	P.O. Box 8	Kilimanjaro	6800			
5.10	Mr Patrick	Wells	Kaj/Carelab Municipality	P.O. Box 8	Kilimanjaro	6800			
5.11	Mr Patrick	Wells	Kaj/Carelab Municipality	P.O. Box 8	Kilimanjaro	6800			
5.12	Mr Patrick	Wells	Kaj/Carelab Municipality	P.O. Box 8	Kilimanjaro	6800			
5.13	Mr Patrick	Wells	Kaj/Carelab Municipality	P.O. Box 8	Kilimanjaro	6800			
5.14	Mr Patrick	Wells	Kaj/Carelab Municipality	P.O. Box 8	Kilimanjaro	6800			
5.15	Mr Patrick	Wells	Kaj/Carelab Municipality	P.O. Box 8	Kilimanjaro	6800			
5.16	Mr Patrick	Wells	Kaj/Carelab Municipality	P.O. Box 8	Kilimanjaro	6800			
6.1	Mr Patrick	Wells	Kaj/Carelab Municipality	P.O. Box 8	Kilimanjaro	6800			
7.1	Mr Wondro	Metshu (HOD)	NC Department of Agriculture & Land Reform	Private Bag 20018	Kilimanjaro	6800	(020) 634 9102		
7.2	Mr Gera	Agriplan-Metshu (HOD)	Department of Cooperative Governance: Human Settlements and Public Works	Private Bag 20018	Kilimanjaro	6800	(020) 634 9103		
7.3	Mr K	Agriplan (HOD)	Department of Cooperative Governance: Human Settlements and Public Works	P.O. Box 3132	Kilimanjaro	6800	(020) 634 2811	(020) 634 2271	
7.4	Mr The	Principal Manager	SARFA Northern Cape	P.O. Box 1890	Kilimanjaro	6800			
7.5	Mr U	Secretary	Department of Water Affairs - Northern Cape	Private Bag 20101	Kilimanjaro	6800	(020) 634 5435	(020) 634 5435	enviro@carelab.ich.gov.za
7.6	Mr A	Secretary	Department of Environment and Nature Conservation	P.O. Box 251	Utopia	6800	(020) 657 2600		enviro@carelab.ich.gov.za
7.7	Mr A	Secretary	Department of Environment and Nature Conservation	P.O. Box 251	Utopia	6800	(020) 657 2600		enviro@carelab.ich.gov.za
7.8	Mr A	Secretary	Department of Environment and Nature Conservation	P.O. Box 251	Utopia	6800	(020) 657 2600		enviro@carelab.ich.gov.za
8.1	Mr A	Secretary	Department of Environment and Nature Conservation	P.O. Box 251	Utopia	6800	(020) 657 2600		enviro@carelab.ich.gov.za
8.2	Mr A	Secretary	Department of Environment and Nature Conservation	P.O. Box 251	Utopia	6800	(020) 657 2600		enviro@carelab.ich.gov.za
8.3	Mr A	Secretary	Department of Environment and Nature Conservation	P.O. Box 251	Utopia	6800	(020) 657 2600		enviro@carelab.ich.gov.za
9.1	Mr A	Secretary	Department of Environment and Nature Conservation	P.O. Box 251	Utopia	6800	(020) 657 2600		enviro@carelab.ich.gov.za

SOMFRET MALL
 2012 -12- -4
 COUNTER 2

EnviroAfrica

Environmental Planning and Impact Assessment Consultants
Omgewingsbeplanning en Impakbeoordeling Konsultante

28 November 2012

Siyanda District Municipality
Private Bag X6039
Uplington
8800

Att: Mr D Ngxanga

NEMAA BASIC ASSESSMENT PUBLIC PARTICIPATION PROCESS

PROPOSED LOW COST HOUSING, KEIMOES, KAI GARIB MUNICIPALITY, NORTHERN CAPE
DEPARTMENT OF ENVIRONMENTAL AFFAIRS (DEA) REF NO: NC/EIA/SIY/KAI/KE1/2012 (NCP/EIA/0000180/2012)

Notice is hereby given of the public participation process in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended ("NEMA"), Environmental Impact Assessment Regulations 2010.

The proposed low cost housing development and associated infrastructure includes the below activities listed in terms of the NEMA EIA Regulations 2010. EnviroAfrica cc has been appointed by Kai IGarib Municipality, to undertake the **Environmental Impact Assessment** for the proposed project.

Application for environmental authorization to undertake the following activities:

Government Notice R544 (Listing Notice 1): Activity No. 11, 18, and 22

Government Notice R545 (Listing Notice 2): Activity No. 15

Government Notice R546 (Listing Notice 3): Activity No. 14

Application has been made to the Competent Authority to follow a Basic Assessment process, instead of a Scoping and Environmental Impact Report.

Project Description & Location: The site is located on a portion of Erf 666, Kelmoes, located off the N14. The site is approximately 49ha.

It is proposed that the property be rezoned and subdivided for the development of serviced low cost housing including associated infrastructure. It is required due to the demand for serviced low cost housing and to provide housing for residents of Kelmoes affected and displaced by flooding of the Orange River.

Application for exemption: The applicant is intending to apply for exemption from Regulation 10(2)(d) of Government Notice No. R543, which states that the applicant must within 12 days of the date of the decision, place a notice in the same newspaper(s) used for the placing of advertisements as part of the public participation process, informing Interested and Affected Parties of the decision, where the decision can be accessed and the right to appeal. Registered I&AP's will be notified of the decision by post and/or preferred method of communication.

Public Participation: Interested and Affected Parties (I&APs) are hereby notified of the application and invited to register (in writing) and/or provide initial comments and identify any issues, concerns or opportunities relating to this project to the contact details provided below, **on or before 25 January 2013**. In order to register or submit comment, I&APs should refer to the project name and DEA reference number above, and provide their name, address & contact details (*indicating your preferred method of notification*) and an indication of any direct business, financial, personal, or other interest which they have in the application. Please note that future correspondence will only be sent to registered Interested and Affected Parties. You are also requested to pass this information to any person you feel should be notified.



P.O.Box 5367
HELDERBERG 7135
Fax: (086) 512 0154
Tel: (021)851 1616

e-mail: admin@enviroafrica.co.za

29 St James Street
Somerset West
VAT 4870170513
CK 97 46008/23

EnviroAfrica

Environmental Planning and Impact Assessment Consultants
Omgewingsbeplanning en Impakbeoordeling Konsultante

28 November 2012

Siyanda District Municipality
Private Bag X6039
Uplington
8800

Att: Mr D Ngxanga

NEMAA BASIC ASSESSMENT PUBLIC PARTICIPATION PROCESS

PROPOSED LOW COST HOUSING, KEIMOES, KAI GARIB MUNICIPALITY, NORTHERN CAPE

DEPARTMENT OF ENVIRONMENTAL AFFAIRS (DEA) REF NO: NC/EIA/SY/KAI/KE1/2012 (NCP/EIA/0000180/2012)

Notice is hereby given of the public participation process in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended ("NEMA"), Environmental Impact Assessment Regulations 2010.

The proposed low cost housing development and associated infrastructure includes the below activities listed in terms of the NEMA EIA Regulations 2010. EnviroAfrica cc has been appointed by Kai IGarib Municipality, to undertake the **Environmental Impact Assessment** for the proposed project.

Application for environmental authorization to undertake the following activities:

Government Notice R544 (Listing Notice 1): Activity No. 11, 18, and 22

Government Notice R545 (Listing Notice 2): Activity No. 15

Government Notice R546 (Listing Notice 3): Activity No. 14

Application has been made to the Competent Authority to follow a Basic Assessment process, instead of a Scoping and Environmental Impact Report.

Project Description & Location: The site is located on a portion of Erf 666, Keimoes, located off the N14. The site is approximately 49ha.

It is proposed that the property be rezoned and subdivided for the development of serviced low cost housing including associated infrastructure. It is required due to the demand for serviced low cost housing and to provide housing for residents of Keimoes affected and displaced by flooding of the Orange River.

Application for exemption: The applicant is intending to apply for exemption from Regulation 10(2)(d) of Government Notice No. R543, which states that the applicant must within 12 days of the date of the decision, place a notice in the same newspaper(s) used for the placing of advertisements as part of the public participation process, informing Interested and Affected Parties of the decision, where the decision can be accessed and the right to appeal. Registered I&AP's will be notified of the decision by post and/or preferred method of communication.

Public Participation: Interested and Affected Parties (I&APs) are hereby notified of the application and invited to register (in writing) and/or provide initial comments and identify any issues, concerns or opportunities relating to this project to the contact details provided below, on or before 26 January 2013. In order to register or submit comment, I&APs should refer to the project name and DEA reference number above, and provide their name, address & contact details (*indicating your preferred method of notification*) and an indication of any direct business, financial, personal, or other interest which they have in the application. Please note that future correspondence will only be sent to registered Interested and Affected Parties. You are also requested to pass this information to any person you feel should be notified.

SOMERSET MAIL

2012-12-24

P.O.Box 5367
HELDERBERG 7135
Fax: (086) 512 0154
Tel: (021)851 1616

e-mail: admin@enviroafrica.co.za

COUNTY 29 St James Street
Somerset West
VAT 4870170513
CK 97 46008/23

EnviroAfrica

Environmental Planning and Impact Assessment Consultants
Omgewingsbeplanning en Impakbeoordeling Konsultante

28 November 2012

Siyanda District Municipality
Private Bag X6039
Upington
8800

Att: Mr D Ngxanga

NEMAA BASIC ASSESSMENT PUBLIC PARTICIPATION PROCESS

PROPOSED LOW COST HOUSING, KEIMOES, KAI GARIB MUNICIPALITY, NORTHERN CAPE
DEPARTMENT OF ENVIRONMENTAL AFFAIRS (DEA) REF NO: NC/EIA/SIY/KAI/KEI/2012 (NCP/EIA/000180/2012)

Notice is hereby given of the public participation process in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended ("NEMA"), Environmental Impact Assessment Regulations 2010.

The proposed low cost housing development and associated infrastructure includes the below activities listed in terms of the NEMA EIA Regulations 2010. EnviroAfrica cc has been appointed by Kai IGarib Municipality, to undertake the **Environmental Impact Assessment** for the proposed project.

Application for environmental authorization to undertake the following activities:

Government Notice R544 (Listing Notice 1): Activity No. 11, 18, and 22
Government Notice R545 (Listing Notice 2): Activity No. 15
Government Notice R546 (Listing Notice 3): Activity No. 14

Application has been made to the Competent Authority to follow a Basic Assessment process, instead of a Scoping and Environmental Impact Report.

Project Description & Location: The site is located on a portion of Erf 666, Keimoes, located off the N14. The site is approximately 49ha.

It is proposed that the property be rezoned and subdivided for the development of serviced low cost housing including associated infrastructure. It is required due to the demand for serviced low cost housing and to provide housing for residents of Keimoes affected and displaced by flooding of the Orange River.

Application for exemption: The applicant is intending to apply for exemption from Regulation 10(2)(d) of Government Notice No. R543, which states that the applicant must within 12 days of the date of the decision, place a notice in the same newspaper(s) used for the placing of advertisements as part of the public participation process, informing Interested and Affected Parties of the decision, where the decision can be accessed and the right to appeal. Registered I&AP's will be notified of the decision by post and/or preferred method of communication.

Public Participation: Interested and Affected Parties (I&APs) are hereby notified of the application and invited to register (in writing) and/or provide initial comments and identify any issues, concerns or opportunities relating to this project to the contact details provided below, on or before 25 January 2013. In order to register or submit comment, I&APs should refer to the project name and DEA reference number above, and provide their name, address & contact details (*indicating your preferred method of notification*) and an indication of any direct business, financial, personal, or other interest which they have in the application. Please note that future correspondence will only be sent to registered Interested and Affected Parties. You are also requested to pass this information to any person you feel should be notified.

2012-12-4

COUNTER 2

P.O.Box 5367
HELDERBERG 7135
Fax: (086) 512 0154
Tel: (021)851 1616

e-mail: admin@enviroafrica.co.za

29 St James Street
Somerset West
VAT 4870170513
CK 97 46008/23

EnviroAfrica

Environmental Planning and Impact Assessment Consultants
Omgewingsbeplanning en Impakbeoordeling Konsultante

28 November 2012

Department of Roads and Public Works
PO Box 3132
Kimberley
8301

Att: Mr K Nogwilli

NEMAA BASIC ASSESSMENT PUBLIC PARTICIPATION PROCESS
PROPOSED LOW COST HOUSING, KEIMOES, KAI GARIB MUNICIPALITY, NORTHERN CAPE
DEPARTMENT OF ENVIRONMENTAL AFFAIRS (DEA) REF NO: NC/EIA/SIY/KAI/KE1/2012 (NCP/EIA/0000180/2012)

Notice is hereby given of the public participation process in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended ("NEMA"), Environmental Impact Assessment Regulations 2010.

The proposed low cost housing development and associated infrastructure includes the below activities listed in terms of the NEMA EIA Regulations 2010. EnviroAfrica cc has been appointed by Kai !Garib Municipality, to undertake the **Environmental Impact Assessment** for the proposed project.

Application for environmental authorization to undertake the following activities:

Government Notice R544 (Listing Notice 1): Activity No. 11, 18, and 22

Government Notice R545 (Listing Notice 2): Activity No. 15

Government Notice R546 (Listing Notice 3): Activity No. 14

Application has been made to the Competent Authority to follow a Basic Assessment process, instead of a Scoping and Environmental Impact Report.

Project Description & Location: The site is located on a portion of Erf 666, Keimoes, located off the N14. The site is approximately 49ha.

It is proposed that the property be rezoned and subdivided for the development of serviced low cost housing including associated infrastructure. It is required due to the demand for serviced low cost housing and to provide housing for residents of Keimoes affected and displaced by flooding of the Orange River.

Application for exemption: The applicant is intending to apply for exemption from Regulation 10(2)(d) of Government Notice No. R543, which states that the applicant must within 12 days of the date of the decision, place a notice in the same newspaper(s) used for the placing of advertisements as part of the public participation process, informing Interested and Affected Parties of the decision, where the decision can be accessed and the right to appeal. Registered I&AP's will be notified of the decision by post and/or preferred method of communication.

Public Participation: Interested and Affected Parties (I&APs) are hereby notified of the application and invited to register (in writing) and/or provide initial comments and identify any issues, concerns or opportunities relating to this project to the contact details provided below, on or before 25 January 2013. In order to register or submit comment, I&APs should refer to the project name and DEA reference number above, and provide their name, address & contact details (*indicating your preferred method of notification*) and an indication of any direct business, financial, personal, or other interest which they have in the application. Please note that future correspondence will only be sent to registered Interested and Affected Parties. You are also requested to pass this information to any person you feel should be notified.

P.O.Box 5367
HELDERBERG 7135
Fax: (086) 512 0154
Tel: (021)851 1616

e-mail: admin@enviroafrica.co.za



EnviroAfrica

Environmental Planning and Impact Assessment Consultants
Omgewingsbeplanning en Impakbeoordeling Konsultante

28 November 2012

The Provincial Manager
SAHRA Northern Cape
PO Box 1930
Kimberley
8301

NEMAA BASIC ASSESSMENT PUBLIC PARTICIPATION PROCESS
PROPOSED LOW COST HOUSING, KEIMOES, KAI GARIB MUNICIPALITY, NORTHERN CAPE
DEPARTMENT OF ENVIRONMENTAL AFFAIRS (DEA) REF NO: NC/EIA/SIY/KAI/KEH/2012 (NCP/EIA/0000180/2012)

Notice is hereby given of the public participation process in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended ("NEMA"), Environmental Impact Assessment Regulations 2010.

The proposed low cost housing development and associated infrastructure includes the below activities listed in terms of the NEMA EIA Regulations 2010. EnviroAfrica cc has been appointed by Kai !Garib Municipality, to undertake the **Environmental Impact Assessment** for the proposed project.

Application for environmental authorization to undertake the following activities:

Government Notice R544 (Listing Notice 1): Activity No. 11, 18, and 22
Government Notice R545 (Listing Notice 2): Activity No. 15
Government Notice R546 (Listing Notice 3): Activity No. 14

Application has been made to the Competent Authority to follow a Basic Assessment process, instead of a Scoping and Environmental Impact Report.

Project Description & Location: The site is located on a portion of Erf 666, Kelmoes, located off the N14. The site is approximately 49ha.

It is proposed that the property be rezoned and subdivided for the development of serviced low cost housing including associated infrastructure. It is required due to the demand for serviced low cost housing and to provide housing for residents of Keimoes affected and displaced by flooding of the Orange River.

Application for exemption: The applicant is intending to apply for exemption from Regulation 10(2)(d) of Government Notice No. R543, which states that the applicant must within 12 days of the date of the decision, place a notice in the same newspaper(s) used for the placing of advertisements as part of the public participation process, informing Interested and Affected Parties of the decision, where the decision can be accessed and the right to appeal. Registered I&AP's will be notified of the decision by post and/or preferred method of communication.

Public Participation: Interested and Affected Parties (I&APs) are hereby notified of the application and invited to register (in writing) and/or provide initial comments and identify any issues, concerns or opportunities relating to this project to the contact details provided below, on or before 25 January 2013. In order to register or submit comment, I&APs should refer to the project name and DEA reference number above, and provide their name, address & contact details (*indicating your preferred method of notification*) and an indication of any direct business, financial, personal, or other interest which they have in the application. Please note that future correspondence will only be sent to registered Interested and Affected Parties. You are also requested to pass this information to any person you feel should be notified.



Consultant: EnviroAfrica (P.O. Box 5367, Helderberg, 7135, Fax: 086 512 0154 / Tel: 021 8511616 /

P.O.Box 5367
HELDERBERG 7135
Fax: (086) 512 0154
Tel: (021)851 1616

e-mail: admin@enviroafrica.co.za

29 St James Street
Somerset West
VAT 4870170513
CK 97 46008/23

EnviroAfrica

Environmental Planning and Impact Assessment Consultants
Omgewingsbeplanning en Impakbeoordeling Konsultante

The Department of Water Affairs-Northern Cape
Private Bag X6101
Kimberley
8300

28 November 2012

Att: Mr LJ Saunders

NEMAA BASIC ASSESSMENT PUBLIC PARTICIPATION PROCESS
PROPOSED LOW COST HOUSING, KEIMOES, KAI GARIB MUNICIPALITY, NORTHERN CAPE
DEPARTMENT OF ENVIRONMENTAL AFFAIRS (DEA) REF NO: NC/EIA/SIY/KAI/KEI/2012 (NCP/EIA/0000180/2012)

Notice is hereby given of the public participation process in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended ("NEMA"), Environmental Impact Assessment Regulations 2010.

The proposed low cost housing development and associated infrastructure includes the below activities listed in terms of the NEMA EIA Regulations 2010. EnviroAfrica cc has been appointed by Kai !Garib Municipality, to undertake the Environmental Impact Assessment for the proposed project.

Application for environmental authorization to undertake the following activities:

Government Notice R544 (Listing Notice 1): Activity No. 11, 18, and 22

Government Notice R545 (Listing Notice 2): Activity No. 15

Government Notice R546 (Listing Notice 3): Activity No. 14

Application has been made to the Competent Authority to follow a Basic Assessment process, instead of a Scoping and Environmental Impact Report.

Project Description & Location: The site is located on a portion of Erf 666, Keimoes, located off the N14. The site is approximately 49ha.

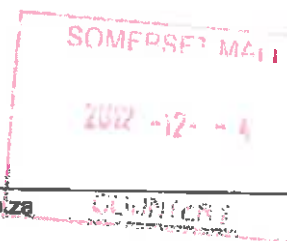
It is proposed that the property be rezoned and subdivided for the development of serviced low cost housing including associated infrastructure. It is required due to the demand for serviced low cost housing and to provide housing for residents of Keimoes affected and displaced by flooding of the Orange River.

Application for exemption: The applicant is intending to apply for exemption from Regulation 10(2)(d) of Government Notice No. R543, which states that the applicant must within 12 days of the date of the decision, place a notice in the same newspaper(s) used for the placing of advertisements as part of the public participation process, informing Interested and Affected Parties of the decision, where the decision can be accessed and the right to appeal. Registered I&AP's will be notified of the decision by post and/or preferred method of communication.

Public Participation: Interested and Affected Parties (I&APs) are hereby notified of the application and invited to register (in writing) and/or provide initial comments and identify any issues, concerns or opportunities relating to this project to the contact details provided below, **on or before 25 January 2013**. In order to register or submit comment, I&APs should refer to the project name and DEA reference number above, and provide their name, address & contact details (*indicating your preferred method of notification*) and an indication of any direct business, financial, personal, or other interest which they have in the application. Please note that future correspondence will only be sent to registered Interested and Affected Parties. You are also requested to pass this information to any person you feel should be notified.

P.O.Box 5367
HELDERBERG 7135
Fax: (086) 512 0154
Tel: (021)851 1616

e-mail: admin@enviroafrica.co.za



SOMERSET

29 St James Street
Somerset West
VAT 4870170513
CK 97 46008/23

EnviroAfrica

Environmental Planning and Impact Assessment Consultants
Omgewingsbeplanning en Impakbeoordeling Konsultante

28 November 2012

The Department of Environment and Nature Conservation
PO Box 231
Uppington
8800

Att: Mr Yaphi

NEMAA BASIC ASSESSMENT PUBLIC PARTICIPATION PROCESS
PROPOSED LOW COST HOUSING, KEIMOES, KAI GARIB MUNICIPALITY, NORTHERN CAPE
DEPARTMENT OF ENVIRONMENTAL AFFAIRS (DEA) REF NO: NC/EIA/SIY/KAI/KE1/2012 (NCP/EIA/0000180/2012)

Notice is hereby given of the public participation process in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended ("NEMA"), Environmental Impact Assessment Regulations 2010.

The proposed low cost housing development and associated infrastructure includes the below activities listed in terms of the NEMA EIA Regulations 2010. EnviroAfrica cc has been appointed by Kai !Garib Municipality, to undertake the Environmental Impact Assessment for the proposed project.

Application for environmental authorization to undertake the following activities:

Government Notice R544 (Listing Notice 1): Activity No. 11, 18, and 22

Government Notice R545 (Listing Notice 2): Activity No. 15

Government Notice R546 (Listing Notice 3): Activity No. 14

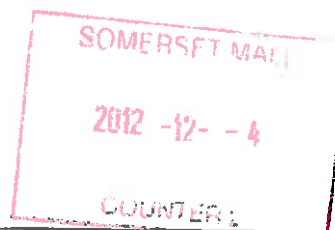
Application has been made to the Competent Authority to follow a Basic Assessment process, instead of a Scoping and Environmental Impact Report.

Project Description & Location: The site is located on a portion of Erf 666, Keimoes, located off the N14. The site is approximately 49ha.

It is proposed that the property be rezoned and subdivided for the development of serviced low cost housing including associated infrastructure. It is required due to the demand for serviced low cost housing and to provide housing for residents of Keimoes affected and displaced by flooding of the Orange River.

Application for exemption: The applicant is intending to apply for exemption from Regulation 10(2)(d) of Government Notice No. R543, which states that the applicant must within 12 days of the date of the decision, place a notice in the same newspaper(s) used for the placing of advertisements as part of the public participation process, informing Interested and Affected Parties of the decision, where the decision can be accessed and the right to appeal. Registered I&AP's will be notified of the decision by post and/or preferred method of communication.

Public Participation: Interested and Affected Parties (I&APs) are hereby notified of the application and invited to register (in writing) and/or provide initial comments and identify any issues, concerns or opportunities relating to this project to the contact details provided below, on or before 25 January 2013. In order to register or submit comment, I&APs should refer to the project name and DEA reference number above, and provide their name, address & contact details (*indicating your preferred method of notification*) and an indication of any direct business, financial, personal, or other interest which they have in the application. Please note that future correspondence will only be sent to registered Interested and Affected Parties. You are also requested to pass this information to any person you feel should be notified.



P.O.Box 5387
HELDERBERG 7135
Fax: (086) 512 0154
Tel: (021)851 1616

e-mail: admin@enviroafrica.co.za

29 St James Street
Somerset West
VAT 4870170513
CK 97 46008/23

EnviroAfrica

Environmental Planning and Impact Assessment Consultants
Omgewingsbeplanning en Impakbeoordeling Konsultante

28 November 2012

Kaigarieb Municipality
PO Box 8
Keimoes
8860

Att: Avilon van Wyk

NEMAA BASIC ASSESSMENT PUBLIC PARTICIPATION PROCESS
PROPOSED LOW COST HOUSING, KEIMOES, KAI GARIB MUNICIPALITY, NORTHERN CAPE
DEPARTMENT OF ENVIRONMENTAL AFFAIRS (DEA) REF NO: NC/EIA/SIY/KAI/KE1/2012 (NCP/EIA/0000180/2012)

Notice is hereby given of the public participation process in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended ("NEMA"), Environmental Impact Assessment Regulations 2010.

The proposed low cost housing development and associated infrastructure includes the below activities listed in terms of the NEMA EIA Regulations 2010. EnviroAfrica cc has been appointed by Kai !Garib Municipality, to undertake the **Environmental Impact Assessment** for the proposed project.

Application for environmental authorization to undertake the following activities:

Government Notice R544 (Listing Notice 1): Activity No. 11, 18, and 22

Government Notice R545 (Listing Notice 2): Activity No. 15

Government Notice R546 (Listing Notice 3): Activity No. 14

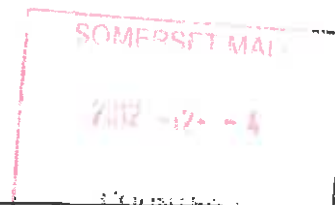
Application has been made to the Competent Authority to follow a Basic Assessment process, instead of a Scoping and Environmental Impact Report.

Project Description & Location: The site is located on a portion of Erf 666, Keimoes, located off the N14. The site is approximately 49ha.

It is proposed that the property be rezoned and subdivided for the development of serviced low cost housing including associated infrastructure. It is required due to the demand for serviced low cost housing and to provide housing for residents of Keimoes affected and displaced by flooding of the Orange River.

Application for exemption: The applicant is intending to apply for exemption from Regulation 10(2)(d) of Government Notice No. R543, which states that the applicant must within 12 days of the date of the decision, place a notice in the same newspaper(s) used for the placing of advertisements as part of the public participation process, informing Interested and Affected Parties of the decision, where the decision can be accessed and the right to appeal. Registered I&AP's will be notified of the decision by post and/or preferred method of communication.

Public Participation: Interested and Affected Parties (I&APs) are hereby notified of the application and invited to register (in writing) and/or provide initial comments and identify any issues, concerns or opportunities relating to this project to the contact details provided below, on or before 25 January 2013. In order to register or submit comment, I&APs should refer to the project name and DEA reference number above, and provide their name, address & contact details (*indicating your preferred method of notification*) and an indication of any direct business, financial, personal, or other interest which they have in the application. Please note that future correspondence will only be sent to registered Interested and Affected Parties. You are also requested to pass this information to any person you feel should be notified.



P.O.Box 5367
HELDERBERG 7135
Fax: (086) 512 0154
Tel: (021)851 1616

e-mail: admin@enviroafrica.co.za

29 St James Street
Somerset West
VAT 4870170513
CK 97 46008/23

EnviroAfrica

Environmental Planning and Impact Assessment Consultants
Omgewingsbeplanning en Impakbeoordeling Konsultante

28 November 2012

Kaigarib Municipality
PO Box 8
Keimoes
8860

Att: Mr Andrew Syers

NEMAA BASIC ASSESSMENT PUBLIC PARTICIPATION PROCESS
PROPOSED LOW COST HOUSING, KEIMOES, KAI GARIB MUNICIPALITY, NORTHERN CAPE
DEPARTMENT OF ENVIRONMENTAL AFFAIRS (DEA) REF NO: NC/EIA/SIY/KAI/KEI/2012 (NCP/EIA/0000180/2012)

Notice is hereby given of the public participation process in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended ("NEMA"), Environmental Impact Assessment Regulations 2010.

The proposed low cost housing development and associated infrastructure includes the below activities listed in terms of the NEMA EIA Regulations 2010. EnviroAfrica cc has been appointed by Kai !Garib Municipality, to undertake the **Environmental Impact Assessment** for the proposed project.

Application for environmental authorization to undertake the following activities:

Government Notice R544 (Listing Notice 1): Activity No. 11, 18, and 22

Government Notice R545 (Listing Notice 2): Activity No. 15

Government Notice R546 (Listing Notice 3): Activity No. 14

Application has been made to the Competent Authority to follow a Basic Assessment process. Instead of a Scoping and Environmental Impact Report.

Project Description & Location: The site is located on a portion of Erf 686, Keimoes, located off the N14. The site is approximately 49ha.

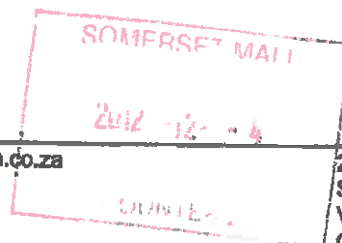
It is proposed that the property be rezoned and subdivided for the development of serviced low cost housing including associated infrastructure. It is required due to the demand for serviced low cost housing and to provide housing for residents of Keimoes affected and displaced by flooding of the Orange River.

Application for exemption: The applicant is intending to apply for exemption from Regulation 10(2)(d) of Government Notice No. R543, which states that the applicant must within 12 days of the date of the decision, place a notice in the same newspaper(s) used for the placing of advertisements as part of the public participation process, informing Interested and Affected Parties of the decision, where the decision can be accessed and the right to appeal. Registered I&AP's will be notified of the decision by post and/or preferred method of communication.

Public Participation: Interested and Affected Parties (I&APs) are hereby notified of the application and invited to register (in writing) and/or provide initial comments and identify any issues, concerns or opportunities relating to this project to the contact details provided below, **on or before 25 January 2013**. In order to register or submit comment, I&APs should refer to the project name and DEA reference number above, and provide their name, address & contact details (*indicating your preferred method of notification*) and an indication of any direct business, financial, personal, or other interest which they have in the application. Please note that future correspondence will only be sent to registered Interested and Affected Parties. You are also requested to pass this information to any person you feel should be notified.

P.O.Box 5367
HELDERBERG 7135
Fax: (086) 512 0154
Tel: (021)851 1616

e-mail: admin@enviroafrica.co.za



29 St James Street
Somerset West
VAT 4870170513
CK 97 48008/23

EnviroAfrica

Environmental Planning and Impact Assessment Consultants
Omgewingsbeplanning en Impakbeoordeling Konsultante

28 November 2012

Kaigariëb Municipality
PO Box 8
Keimoes
8860

Att: Mr Anwil Isaacs

NEMAA BASIC ASSESSMENT PUBLIC PARTICIPATION PROCESS
PROPOSED LOW COST HOUSING, KEIMOES, KAI GARIB MUNICIPALITY, NORTHERN CAPE
DEPARTMENT OF ENVIRONMENTAL AFFAIRS (DEA) REF NO: NCEIA/SIY/KAI/KEI/2012 (NCP/EIA/0000180/2012)

Notice is hereby given of the public participation process in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended ("NEMA"), Environmental Impact Assessment Regulations 2010.

The proposed low cost housing development and associated infrastructure includes the below activities listed in terms of the NEMA EIA Regulations 2010. EnviroAfrica cc has been appointed by Kai IGarib Municipality, to undertake the Environmental Impact Assessment for the proposed project.

Application for environmental authorization to undertake the following activities:

Government Notice R544 (Listing Notice 1): Activity No. 11, 18, and 22

Government Notice R545 (Listing Notice 2): Activity No. 15

Government Notice R546 (Listing Notice 3): Activity No. 14

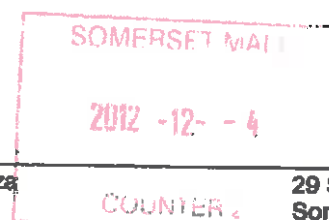
Application has been made to the Competent Authority to follow a Basic Assessment process, instead of a Scoping and Environmental Impact Report.

Project Description & Location: The site is located on a portion of Erf 666, Keimoes, located off the N14. The site is approximately 49ha.

It is proposed that the property be rezoned and subdivided for the development of serviced low cost housing including associated infrastructure. It is required due to the demand for serviced low cost housing and to provide housing for residents of Keimoes affected and displaced by flooding of the Orange River.

Application for exemption: The applicant is intending to apply for exemption from Regulation 10(2)(d) of Government Notice No. R543, which states that the applicant must within 12 days of the date of the decision, place a notice in the same newspaper(s) used for the placing of advertisements as part of the public participation process, informing interested and Affected Parties of the decision, where the decision can be accessed and the right to appeal. Registered I&AP's will be notified of the decision by post and/or preferred method of communication.

Public Participation: Interested and Affected Parties (I&APs) are hereby notified of the application and invited to register (In writing) and/or provide initial comments and identify any issues, concerns or opportunities relating to this project to the contact details provided below, **on or before 25 January 2013**. In order to register or submit comment, I&APs should refer to the project name and DEA reference number above, and provide their name, address & contact details (*indicating your preferred method of notification*) and an indication of any direct business, financial, personal, or other interest which they have in the application. Please note that future correspondence will only be sent to registered Interested and Affected Parties. You are also requested to pass this information to any person you feel should be notified.



P.O.Box 5367
HELDERBERG 7135
Fax: (086) 512 0154
Tel: (021)851 1616

e-mail: admin@enviroafrica.co.za

29 St James Street
Somerset West
VAT 4870170513
CK 97 46008/23

EnviroAfrica

Environmental Planning and Impact Assessment Consultants
Omgewingsbeplanning en Impakbeoordeling Konsultante

28 November 2012

Kallgarieb Municipality
PO Box 8
Keimoes
8860

Att: Mr Erwin Meyer

NEMAA BASIC ASSESSMENT PUBLIC PARTICIPATION PROCESS
PROPOSED LOW COST HOUSING, KEIMOES, KAI GARIB MUNICIPALITY, NORTHERN CAPE
DEPARTMENT OF ENVIRONMENTAL AFFAIRS (DEA) REF NO: NC/EIA/SIY/KAI/KEI1/2012 (NCP/EIA/0000180/2012)

Notice is hereby given of the public participation process in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended ("NEMA"), Environmental Impact Assessment Regulations 2010.

The proposed low cost housing development and associated infrastructure includes the below activities listed in terms of the NEMA EIA Regulations 2010. EnviroAfrica cc has been appointed by Kai IGarib Municipality, to undertake the **Environmental Impact Assessment** for the proposed project.

Application for environmental authorization to undertake the following activities:

Government Notice R544 (Listing Notice 1): Activity No. 11, 18, and 22

Government Notice R545 (Listing Notice 2): Activity No. 15

Government Notice R546 (Listing Notice 3): Activity No. 14

Application has been made to the Competent Authority to follow a Basic Assessment process, instead of a Scoping and Environmental Impact Report.

Project Description & Location: The site is located on a portion of Erf 666, Keimoes, located off the N14. The site is approximately 49ha.

It is proposed that the property be rezoned and subdivided for the development of serviced low cost housing including associated infrastructure. It is required due to the demand for serviced low cost housing and to provide housing for residents of Keimoes affected and displaced by flooding of the Orange River.

Application for exemption: The applicant is intending to apply for exemption from Regulation 10(2)(d) of Government Notice No. R543, which states that the applicant must within 12 days of the date of the decision, place a notice in the same newspaper(s) used for the placing of advertisements as part of the public participation process, informing Interested and Affected Parties of the decision, where the decision can be accessed and the right to appeal. Registered I&AP's will be notified of the decision by post and/or preferred method of communication.

Public Participation: Interested and Affected Parties (I&APs) are hereby notified of the application and invited to register (in writing) and/or provide initial comments and identify any issues, concerns or opportunities relating to this project to the contact details provided below, **on or before 25 January 2013**. In order to register or submit comment, I&APs should refer to the project name and DEA reference number above, and provide their name, address & contact details (*indicating your preferred method of notification*) and an indication of any direct business, financial, personal, or other interest which they have in the application. Please note that future correspondence will only be sent to registered Interested and Affected Parties. You are also requested to pass this information to any person you feel should be notified.

SOMERSET MAIL

2012 -12- - 4

P.O.Box 5367
HELDERBERG 7135
Fax: (086) 512 0154
Tel: (021)851 1616

e-mail: admin@enviroafrica.co.za

COUNTERTOP

29 St James Street
Somerset West
VAT 4870170513
CK 97 46008/23

EnviroAfrica

Environmental Planning and Impact Assessment Consultants
Omgewingsbeplanning en Impakbeoordeling Konsultante

Kaifariëb Municipality
PO Box 8
Keimoes
8860

28 November 2012

Att: Mr Frederick Handona

NEMAA BASIC ASSESSMENT PUBLIC PARTICIPATION PROCESS
PROPOSED LOW COST HOUSING, KEIMOES, KAI GARIB MUNICIPALITY, NORTHERN CAPE
DEPARTMENT OF ENVIRONMENTAL AFFAIRS (DEA) REF NO: NC/EIA/SIY/KAI/KE1/2012 (NCP/EIA/0000180/2012)

Notice is hereby given of the public participation process in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended ("NEMA"), Environmental Impact Assessment Regulations 2010.

The proposed low cost housing development and associated infrastructure includes the below activities listed in terms of the NEMA EIA Regulations 2010. EnviroAfrica cc has been appointed by Kai !Garib Municipality, to undertake the **Environmental Impact Assessment** for the proposed project.

Application for environmental authorization to undertake the following activities:

Government Notice R544 (Listing Notice 1): Activity No. 11, 18, and 22

Government Notice R545 (Listing Notice 2): Activity No. 15

Government Notice R546 (Listing Notice 3): Activity No. 14

Application has been made to the Competent Authority to follow a Basic Assessment process, instead of a Scoping and Environmental Impact Report.

Project Description & Location: The site is located on a portion of Erf 666, Keimoes, located off the N14. The site is approximately 49ha.

It is proposed that the property be rezoned and subdivided for the development of serviced low cost housing including associated infrastructure. It is required due to the demand for serviced low cost housing and to provide housing for residents of Keimoes affected and displaced by flooding of the Orange River.

Application for exemption: The applicant is intending to apply for exemption from Regulation 10(2)(d) of Government Notice No. R543, which states that the applicant must within 12 days of the date of the decision, place a notice in the same newspaper(s) used for the placing of advertisements as part of the public participation process, informing Interested and Affected Parties of the decision, where the decision can be accessed and the right to appeal. Registered I&AP's will be notified of the decision by post and/or preferred method of communication.

Public Participation: Interested and Affected Parties (I&APs) are hereby notified of the application and invited to register (in writing) and/or provide initial comments and identify any issues, concerns or opportunities relating to this project to the contact details provided below, **on or before 25 January 2013**. In order to register or submit comment, I&APs should refer to the project name and DEA reference number above, and provide their name, address & contact details (*indicating your preferred method of notification*) and an indication of any direct business, financial, personal, or other interest which they have in the application. Please note that future correspondence will only be sent to registered Interested and Affected Parties. You are also requested to pass this information to any person you feel should be notified.



P.O.Box 5367
HELDERBERG 7135
Fax: (086) 512 0154
Tel: (021)851 1816

e-mail: admin@enviroafrica.co.za

29 St James Street
Somerset West
VAT 4870170513
CK 97 48008/23

EnviroAfrica

Environmental Planning and Impact Assessment Consultants
Omgewingsbeplanning en Impakbeoordeling Konsultante

28 November 2012

Kaigarieb Municipality
PO Box 8
Keimoes
8860

Att: Mr James Styles

NEMAA BASIC ASSESSMENT PUBLIC PARTICIPATION PROCESS
PROPOSED LOW COST HOUSING, KEIMOES, KAI GARIB MUNICIPALITY, NORTHERN CAPE
DEPARTMENT OF ENVIRONMENTAL AFFAIRS (DEA) REF NO: NC/EIA/SIY/KAI/KE1/2012 (NCP/EIA/0000180/2012)

Notice is hereby given of the public participation process in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended ("NEMA"), Environmental Impact Assessment Regulations 2010.

The proposed low cost housing development and associated infrastructure includes the below activities listed in terms of the NEMA EIA Regulations 2010. EnviroAfrica cc has been appointed by Kai I Garib Municipality, to undertake the **Environmental Impact Assessment** for the proposed project.

Application for environmental authorization to undertake the following activities:

Government Notice R544 (Listing Notice 1): Activity No. 11, 18, and 22

Government Notice R545 (Listing Notice 2): Activity No. 15

Government Notice R546 (Listing Notice 3): Activity No. 14

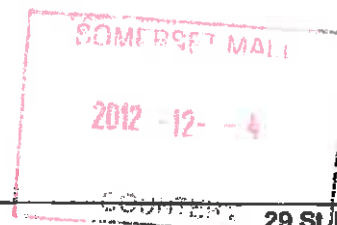
Application has been made to the Competent Authority to follow a Basic Assessment process, instead of a Scoping and Environmental Impact Report.

Project Description & Location: The site is located on a portion of Erf 666, Keimoes, located off the N14. The site is approximately 49ha.

It is proposed that the property be rezoned and subdivided for the development of serviced low cost housing including associated infrastructure. It is required due to the demand for serviced low cost housing and to provide housing for residents of Keimoes affected and displaced by flooding of the Orange River.

Application for exemption: The applicant is intending to apply for exemption from Regulation 10(2)(d) of Government Notice No. R543, which states that the applicant must within 12 days of the date of the decision, place a notice in the same newspaper(s) used for the placing of advertisements as part of the public participation process, informing Interested and Affected Parties of the decision, where the decision can be accessed and the right to appeal. Registered I&AP's will be notified of the decision by post and/or preferred method of communication.

Public Participation: Interested and Affected Parties (I&APs) are hereby notified of the application and invited to register (in writing) and/or provide initial comments and identify any issues, concerns or opportunities relating to this project to the contact details provided below, **on or before 25 January 2013**. In order to register or submit comment, I&APs should refer to the project name and DEA reference number above, and provide their name, address & contact details (*indicating your preferred method of notification*) and an indication of any direct business, financial, personal, or other interest which they have in the application. Please note that future correspondence will only be sent to registered Interested and Affected Parties. You are also requested to pass this information to any person you feel should be notified.



P.O.Box 5367
HELDERBERG 7135
Fax: (086) 512 0154
Tel: (021)851 1616

e-mail: admin@enviroafrica.co.za

29 St James Street
Somerset West
VAT 4870170513
CK 97 46008/23

EnviroAfrica

Environmental Planning and Impact Assessment Consultants
Omgewingsbeplanning en Impakbeoordeling Konsultante

28 November 2012

Kaifgarib Municipality
PO Box 8
Keimoes
8860

Att: Mr Thom Solomon

NEMAA BASIC ASSESSMENT PUBLIC PARTICIPATION PROCESS
PROPOSED LOW COST HOUSING, KEIMOES, KAI GARIB MUNICIPALITY, NORTHERN CAPE
DEPARTMENT OF ENVIRONMENTAL AFFAIRS (DEA) REF NO: NC/EIA/SIY/KAI/KE1/2012 (NCP/EIA/0000180/2012)

Notice is hereby given of the public participation process in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended ("NEMA"), Environmental Impact Assessment Regulations 2010.

The proposed low cost housing development and associated infrastructure includes the below activities listed in terms of the NEMA EIA Regulations 2010. EnviroAfrica cc has been appointed by Kai IGarib Municipality, to undertake the **Environmental Impact Assessment** for the proposed project.

Application for environmental authorization to undertake the following activities:

Government Notice R544 (Listing Notice 1): Activity No. 11, 18, and 22

Government Notice R545 (Listing Notice 2): Activity No. 15

Government Notice R546 (Listing Notice 3): Activity No. 14

Application has been made to the Competent Authority to follow a Basic Assessment process, instead of a Scoping and Environmental Impact Report.

Project Description & Location: The site is located on a portion of Erf 686, Keimoes, located off the N14. The site is approximately 49ha.

It is proposed that the property be rezoned and subdivided for the development of serviced low cost housing including associated infrastructure. It is required due to the demand for serviced low cost housing and to provide housing for residents of Keimoes affected and displaced by flooding of the Orange River.

Application for exemption: The applicant is intending to apply for exemption from Regulation 10(2)(d) of Government Notice No. R543, which states that the applicant must within 12 days of the date of the decision, place a notice in the same newspaper(s) used for the placing of advertisements as part of the public participation process, informing Interested and Affected Parties of the decision, where the decision can be accessed and the right to appeal. Registered I&AP's will be notified of the decision by post and/or preferred method of communication.

Public Participation: Interested and Affected Parties (I&APs) are hereby notified of the application and invited to register (in writing) and/or provide initial comments and identify any issues, concerns or opportunities relating to this project to the contact details provided below, on or before 25 January 2013. In order to register or submit comment, I&APs should refer to the project name and DEA reference number above, and provide their name, address & contact details (*indicating your preferred method of notification*) and an indication of any direct business, financial, personal, or other interest which they have in the application. Please note that future correspondence will only be sent to registered Interested and Affected Parties. You are also requested to pass this information to any person you feel should be notified.



P.O.Box 5367
HELDERBERG 7135
Fax: (086) 512 0154
Tel: (021)851 1616

e-mail: admin@enviroafrica.co.za

29 St James Street
Somerset West
VAT 4870170513
CK 97 48008/23

EnviroAfrica

Environmental Planning and Impact Assessment Consultants
Omgewingsbeplanning en Impakbeoordeling Konsultante

28 November 2012

Kai!garib Municipality
PO Box 8
Keimoes
8860

Att: Mr Walter Klim

NEMAA BASIC ASSESSMENT PUBLIC PARTICIPATION PROCESS
PROPOSED LOW COST HOUSING, KEIMOOES, KAI GARIB MUNICIPALITY, NORTHERN CAPE
DEPARTMENT OF ENVIRONMENTAL AFFAIRS (DEA) REF NO: NCEIA/SIY/KAI/KE1/2012 (NCP/EIA/0000180/2012)

Notice is hereby given of the public participation process in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended ("NEMA"), Environmental Impact Assessment Regulations 2010.

The proposed low cost housing development and associated infrastructure includes the below activities listed in terms of the NEMA EIA Regulations 2010. EnviroAfrica cc has been appointed by Kai !Garib Municipality, to undertake the **Environmental Impact Assessment** for the proposed project.

Application for environmental authorization to undertake the following activities:

Government Notice R544 (Listing Notice 1): Activity No. 11, 18, and 22

Government Notice R545 (Listing Notice 2): Activity No. 15

Government Notice R546 (Listing Notice 3): Activity No. 14

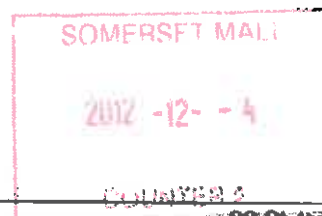
Application has been made to the Competent Authority to follow a Basic Assessment process, instead of a Scoping and Environmental Impact Report.

Project Description & Location: The site is located on a portion of Erf 666, Keimoes, located off the N14. The site is approximately 49ha.

It is proposed that the property be rezoned and subdivided for the development of serviced low cost housing including associated infrastructure. It is required due to the demand for serviced low cost housing and to provide housing for residents of Keimoes affected and displaced by flooding of the Orange River.

Application for exemption: The applicant is intending to apply for exemption from Regulation 10(2)(d) of Government Notice No. R543, which states that the applicant must within 12 days of the date of the decision, place a notice in the same newspaper(s) used for the placing of advertisements as part of the public participation process, informing Interested and Affected Parties of the decision, where the decision can be accessed and the right to appeal. Registered I&AP's will be notified of the decision by post and/or preferred method of communication.

Public Participation: Interested and Affected Parties (I&APs) are hereby notified of the application and invited to register (in writing) and/or provide initial comments and identify any issues, concerns or opportunities relating to this project to the contact details provided below, on or before 25 January 2013. In order to register or submit comment, I&APs should refer to the project name and DEA reference number above, and provide their name, address & contact details (*indicating your preferred method of notification*) and an indication of any direct business, financial, personal, or other interest which they have in the application. Please note that future correspondence will only be sent to registered Interested and Affected Parties. You are also requested to pass this information to any person you feel should be notified.



P.O.Box 5367
HELDERBERG 7135
Fax: (086) 512 0154
Tel: (021)851 1616

e-mail: admin@enviroafrica.co.za

29 St James Street
Somerset West
VAT 4870170513
CK 97 46008/23

EnviroAfrica

Environmental Planning and Impact Assessment Consultants
Omgewingsbeplanning en Impakbeoordeling Konsultante

28 November 2012

Kaifgarieb Municipality
PO Box 8
Kelmoss
8860

Att: Mr Willem Kamfer

NEMAA BASIC ASSESSMENT PUBLIC PARTICIPATION PROCESS

PROPOSED LOW COST HOUSING, KEIMOES, KAI GARIB MUNICIPALITY, NORTHERN CAPE

DEPARTMENT OF ENVIRONMENTAL AFFAIRS (DEA) REF NO: NC/EIA/SIY/KAI/KEI1/2012 (NCP/EIA/0000180/2012)

Notice is hereby given of the public participation process in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended ("NEMA"), Environmental Impact Assessment Regulations 2010.

The proposed low cost housing development and associated infrastructure includes the below activities listed in terms of the NEMA EIA Regulations 2010. EnviroAfrica cc has been appointed by Kai IGarib Municipality, to undertake the **Environmental Impact Assessment** for the proposed project.

Application for environmental authorization to undertake the following activities:

Government Notice R544 (Listing Notice 1): Activity No. 11, 18, and 22

Government Notice R545 (Listing Notice 2): Activity No. 15

Government Notice R546 (Listing Notice 3): Activity No. 14

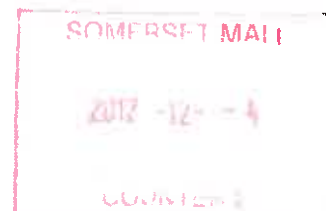
Application has been made to the Competent Authority to follow a Basic Assessment process, instead of a Scoping and Environmental Impact Report.

Project Description & Location: The site is located on a portion of Erf 666, Keimoes, located off the N14. The site is approximately 49ha.

It is proposed that the property be rezoned and subdivided for the development of serviced low cost housing including associated infrastructure. It is required due to the demand for serviced low cost housing and to provide housing for residents of Keimoes affected and displaced by flooding of the Orange River.

Application for exemption: The applicant is intending to apply for exemption from Regulation 10(2)(d) of Government Notice No. R543, which states that the applicant must within 12 days of the date of the decision, place a notice in the same newspaper(s) used for the placing of advertisements as part of the public participation process, informing Interested and Affected Parties of the decision, where the decision can be accessed and the right to appeal. Registered I&AP's will be notified of the decision by post and/or preferred method of communication.

Public Participation: Interested and Affected Parties (I&APs) are hereby notified of the application and invited to register (in writing) and/or provide initial comments and identify any issues, concerns or opportunities relating to this project to the contact details provided below, on or before 25 January 2013. In order to register or submit comment, I&APs should refer to the project name and DEA reference number above, and provide their name, address & contact details (*indicating your preferred method of notification*) and an indication of any direct business, financial, personal, or other interest which they have in the application. Please note that future correspondence will only be sent to registered Interested and Affected Parties. You are also requested to pass this information to any person you feel should be notified.



P.O.Box 5367
HELDERBERG 7135
Fax: (086) 512 0154
Tel: (021)851 1616

e-mail: admin@enviroafrica.co.za

29 St James Street
Somerset West
VAT 4870170513
CK 97 46008/23

EnviroAfrica

Environmental Planning and Impact Assessment Consultants
Omgewingsbeplanning en Impakbeoordeling Konsultante

28 November 2012

Northern cape department of Agriculture and Land Reform
Private bag X5018
Kimberley
8300

Att: Mr Wonders Mothibi

NEMAA BASIC ASSESSMENT PUBLIC PARTICIPATION PROCESS
PROPOSED LOW COST HOUSING, KEIMOES, KAI GARIB MUNICIPALITY, NORTHERN CAPE
DEPARTMENT OF ENVIRONMENTAL AFFAIRS (DEA) REF NO: NC/EIA/SIY/KAI/KE1/2012 (NCP/EIA/0000180/2012)

Notice is hereby given of the public participation process in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended ("NEMA"), Environmental Impact Assessment Regulations 2010.

The proposed low cost housing development and associated infrastructure includes the below activities listed in terms of the NEMA EIA Regulations 2010. EnviroAfrica cc has been appointed by Kai !Garib Municipality, to undertake the **Environmental Impact Assessment** for the proposed project.

Application for environmental authorization to undertake the following activities:

Government Notice R544 (Listing Notice 1): Activity No. 11, 18, and 22

Government Notice R545 (Listing Notice 2): Activity No. 15

Government Notice R546 (Listing Notice 3): Activity No. 14

Application has been made to the Competent Authority to follow a Basic Assessment process, instead of a Scoping and Environmental Impact Report.

Project Description & Location: The site is located on a portion of Erf 666, Keimoes, located off the N14. The site is approximately 49ha.

It is proposed that the property be rezoned and subdivided for the development of serviced low cost housing including associated infrastructure. It is required due to the demand for serviced low cost housing and to provide housing for residents of Keimoes affected and displaced by flooding of the Orange River.

Application for exemption: The applicant is intending to apply for exemption from Regulation 10(2)(d) of Government Notice No. R543, which states that the applicant must within 12 days of the date of the decision, place a notice in the same newspaper(s) used for the placing of advertisements as part of the public participation process, informing Interested and Affected Parties of the decision, where the decision can be accessed and the right to appeal. Registered I&AP's will be notified of the decision by post and/or preferred method of communication.

Public Participation: Interested and Affected Parties (I&APs) are hereby notified of the application and invited to register (in writing) and/or provide initial comments and identify any issues, concerns or opportunities relating to this project to the contact details provided below, on or before 25 January 2013. In order to register or submit comment, I&APs should refer to the project name and DEA reference number above, and provide their name, address & contact details (*indicating your preferred method of notification*) and an indication of any direct business, financial, personal, or other interest which they have in the application. Please note that future correspondence will only be sent to registered Interested and Affected Parties. You are also requested to pass this information to any person you feel should be notified.



P.O.Box 5367
HELDERBERG 7135
Fax: (086) 512 0154
Tel: (021)851 1616

e-mail: admin@enviroafrica.co.za

29 St James Street
Somerset West
VAT 4870170513
CK 97 46008/23

EnviroAfrica

Environmental Planning and Impact Assessment Consultants
Omgewingsbeplanning en Impakbeoordeling Konsultante

Kaigariieb Municipality
PO Box 8
Keimoes
8860

28 November 2012

Att: Ms Angela Du Plessis

NEMAA BASIC ASSESSMENT PUBLIC PARTICIPATION PROCESS
PROPOSED LOW COST HOUSING, KEIMOES, KAI GARIB MUNICIPALITY, NORTHERN CAPE
DEPARTMENT OF ENVIRONMENTAL AFFAIRS (DEA) REF NO: NC/EIA/SIY/KAI/KEI1/2012 (NCP/EIA/0000180/2012)

Notice is hereby given of the public participation process in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended ("NEMA"), Environmental Impact Assessment Regulations 2010.

The proposed low cost housing development and associated infrastructure includes the below activities listed in terms of the NEMA EIA Regulations 2010. EnviroAfrica cc has been appointed by Kai IGarib Municipality, to undertake the **Environmental Impact Assessment** for the proposed project.

Application for environmental authorization to undertake the following activities:

Government Notice R544 (Listing Notice 1): Activity No. 11, 18, and 22

Government Notice R545 (Listing Notice 2): Activity No. 15

Government Notice R546 (Listing Notice 3): Activity No. 14

Application has been made to the Competent Authority to follow a Basic Assessment process, instead of a Scoping and Environmental Impact Report.

Project Description & Location: The site is located on a portion of Erf 666, Keimoes, located off the N14. The site is approximately 49ha.

It is proposed that the property be rezoned and subdivided for the development of serviced low cost housing including associated infrastructure. It is required due to the demand for serviced low cost housing and to provide housing for residents of Keimoes affected and displaced by flooding of the Orange River.

Application for exemption: The applicant is intending to apply for exemption from Regulation 10(2)(d) of Government Notice No. R543, which states that the applicant must within 12 days of the date of the decision, place a notice in the same newspaper(s) used for the placing of advertisements as part of the public participation process, informing Interested and Affected Parties of the decision, where the decision can be accessed and the right to appeal. Registered I&AP's will be notified of the decision by post and/or preferred method of communication.

Public Participation: Interested and Affected Parties (I&APs) are hereby notified of the application and invited to register (in writing) and/or provide initial comments and identify any issues, concerns or opportunities relating to this project to the contact details provided below, **on or before 25 January 2013**. In order to register or submit comment, I&APs should refer to the project name and DEA reference number above, and provide their name, address & contact details (*indicating your preferred method of notification*) and an indication of any direct business, financial, personal, or other interest which they have in the application. Please note that future correspondence will only be sent to registered Interested and Affected Parties. You are also requested to pass this information to any person you feel should be notified.



P.O.Box 5367
HELDERBERG 7135
Fax: (086) 512 0154
Tel: (021)851 1616

e-mail: admin@enviroafrica.co.za

29 St James Street
Somerset West
VAT 4870170513
CK 97 46008/23

EnviroAfrica

Environmental Planning and Impact Assessment Consultants
Omgewingsbeplanning en Impakbeoordeling Konsultante

28 November 2012

Kaifgarieb Municipality
PO Box 8
Keimoes
8860

Att: Ms Anna De Bruin

NEMAA BASIC ASSESSMENT PUBLIC PARTICIPATION PROCESS

PROPOSED LOW COST HOUSING, KEIMOOES, KAI GARIB MUNICIPALITY, NORTHERN CAPE

DEPARTMENT OF ENVIRONMENTAL AFFAIRS (DEA) REF NO: NC/EIA/SIY/KAI/KE1/2012 (NCP/EIA/0000180/2012)

Notice is hereby given of the public participation process in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended ("NEMA"), Environmental Impact Assessment Regulations 2010.

The proposed low cost housing development and associated infrastructure includes the below activities listed in terms of the NEMA EIA Regulations 2010. EnviroAfrica cc has been appointed by Kai !Garib Municipality, to undertake the **Environmental Impact Assessment** for the proposed project.

Application for environmental authorization to undertake the following activities:

Government Notice R544 (Listing Notice 1): Activity No. 11, 18, and 22

Government Notice R545 (Listing Notice 2): Activity No. 15

Government Notice R546 (Listing Notice 3): Activity No. 14

Application has been made to the Competent Authority to follow a Basic Assessment process, instead of a Scoping and Environmental Impact Report.

Project Description & Location: The site is located on a portion of Erf 666, Keimoes, located off the N14. The site is approximately 49ha.

It is proposed that the property be rezoned and subdivided for the development of serviced low cost housing including associated infrastructure. It is required due to the demand for serviced low cost housing and to provide housing for residents of Keimoes affected and displaced by flooding of the Orange River.

Application for exemption: The applicant is intending to apply for exemption from Regulation 10(2)(d) of Government Notice No. R543, which states that the applicant must within 12 days of the date of the decision, place a notice in the same newspaper(s) used for the placing of advertisements as part of the public participation process, informing Interested and Affected Parties of the decision, where the decision can be accessed and the right to appeal. Registered I&AP's will be notified of the decision by post and/or preferred method of communication.

Public Participation: Interested and Affected Parties (I&APs) are hereby notified of the application and invited to register (in writing) and/or provide initial comments and identify any issues, concerns or opportunities relating to this project to the contact details provided below, **on or before 25 January 2013**. In order to register or submit comment, I&APs should refer to the project name and DEA reference number above, and provide their name, address & contact details (*indicating your preferred method of notification*) and an indication of any direct business, financial, personal, or other interest which they have in the application. Please note that future correspondence will only be sent to registered Interested and Affected Parties. You are also requested to pass this information to any person you feel should be notified.



P.O.Box 5367
HELDERBERG 7135
Fax: (086) 512 0154
Tel: (021)851 1616

e-mail: admin@enviroafrica.co.za

29 St James Street
Somerset West
VAT 4870170513
CK 97 46008/23

EnviroAfrica

Environmental Planning and Impact Assessment Consultants
Omgewingsbeplanning en Impakbeoordeling Konsultante

28 November 2012

Kaifgarieb Municipality
PO Box 8
Keimoes
8860

Att: Ms April van der Westhuizen

NEMAA BASIC ASSESSMENT PUBLIC PARTICIPATION PROCESS

PROPOSED LOW COST HOUSING, KEIMOES, KAI GARIB MUNICIPALITY, NORTHERN CAPE

DEPARTMENT OF ENVIRONMENTAL AFFAIRS (DEA) REF NO: NC/EIA/SIY/KAI/KEI1/2012 (NCP/EIA/0000180/2012)

Notice is hereby given of the public participation process in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended ("NEMA"), Environmental Impact Assessment Regulations 2010.

The proposed low cost housing development and associated infrastructure includes the below activities listed in terms of the NEMA EIA Regulations 2010. EnviroAfrica cc has been appointed by Kai IGarib Municipality, to undertake the **Environmental Impact Assessment** for the proposed project.

Application for environmental authorization to undertake the following activities:

Government Notice R544 (Listing Notice 1): Activity No. 11, 18, and 22

Government Notice R545 (Listing Notice 2): Activity No. 15

Government Notice R546 (Listing Notice 3): Activity No. 14

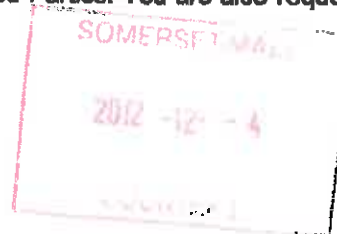
Application has been made to the Competent Authority to follow a Basic Assessment process, instead of a Scoping and Environmental Impact Report.

Project Description & Location: The site is located on a portion of Erf 666, Keimoes, located off the N14. The site is approximately 49ha.

It is proposed that the property be rezoned and subdivided for the development of serviced low cost housing including associated infrastructure. It is required due to the demand for serviced low cost housing and to provide housing for residents of Keimoes affected and displaced by flooding of the Orange River.

Application for exemption: The applicant is intending to apply for exemption from Regulation 10(2)(d) of Government Notice No. R543, which states that the applicant must within 12 days of the date of the decision, place a notice in the same newspaper(s) used for the placing of advertisements as part of the public participation process, informing Interested and Affected Parties of the decision, where the decision can be accessed and the right to appeal. Registered I&AP's will be notified of the decision by post and/or preferred method of communication.

Public Participation: Interested and Affected Parties (I&APs) are hereby notified of the application and invited to register (in writing) and/or provide initial comments and identify any issues, concerns or opportunities relating to this project to the contact details provided below, on or before 25 January 2013. In order to register or submit comment, I&APs should refer to the project name and DEA reference number above, and provide their name, address & contact details (*indicating your preferred method of notification*) and an indication of any direct business, financial, personal, or other interest which they have in the application. Please note that future correspondence will only be sent to registered Interested and Affected Parties. You are also requested to pass this information to any person you feel should be notified.



P.O.Box 5367
HELDERBERG 7135
Fax: (088) 512 0154
Tel: (021)851 1616

e-mail: admin@enviroafrica.co.za

29 St James Street
Somerset West
VAT 4870170513
CK 97 46008/23

EnviroAfrica

Environmental Planning and Impact Assessment Consultants
Omgewingsbeplanning en Impakbeoordeling Konsultante

28 November 2012

Kai Garib Municipality
PO Box 8
Keimoes
8860

Att: Ms Brenda Bock

NEMAA BASIC ASSESSMENT PUBLIC PARTICIPATION PROCESS

PROPOSED LOW COST HOUSING, KEIMOES, KAI GARIB MUNICIPALITY, NORTHERN CAPE

DEPARTMENT OF ENVIRONMENTAL AFFAIRS (DEA) REF NO: NC/EIA/SIY/KAI/KEI/2012 (NCP/EIA/0000180/2012)

Notice is hereby given of the public participation process in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended ("NEMA"), Environmental Impact Assessment Regulations 2010.

The proposed low cost housing development and associated infrastructure includes the below activities listed in terms of the NEMA EIA Regulations 2010. EnviroAfrica cc has been appointed by Kai Garib Municipality, to undertake the **Environmental Impact Assessment** for the proposed project.

Application for environmental authorization to undertake the following activities:

Government Notice R544 (Listing Notice 1): Activity No. 11, 18, and 22

Government Notice R545 (Listing Notice 2): Activity No. 15

Government Notice R546 (Listing Notice 3): Activity No. 14

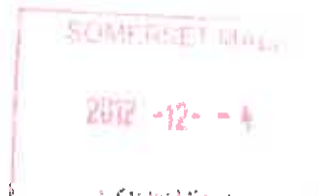
Application has been made to the Competent Authority to follow a Basic Assessment process, instead of a Scoping and Environmental Impact Report.

Project Description & Location: The site is located on a portion of Erf 666, Keimoes, located off the N14. The site is approximately 49ha.

It is proposed that the property be rezoned and subdivided for the development of serviced low cost housing including associated infrastructure. It is required due to the demand for serviced low cost housing and to provide housing for residents of Keimoes affected and displaced by flooding of the Orange River.

Application for exemption: The applicant is intending to apply for exemption from Regulation 10(2)(d) of Government Notice No. R543, which states that the applicant must within 12 days of the date of the decision, place a notice in the same newspaper(s) used for the placing of advertisements as part of the public participation process, informing Interested and Affected Parties of the decision, where the decision can be accessed and the right to appeal. Registered I&AP's will be notified of the decision by post and/or preferred method of communication.

Public Participation: Interested and Affected Parties (I&APs) are hereby notified of the application and invited to register (in writing) and/or provide initial comments and identify any issues, concerns or opportunities relating to this project to the contact details provided below, on or before 25 January 2013. In order to register or submit comment, I&APs should refer to the project name and DEA reference number above, and provide their name, address & contact details (*indicating your preferred method of notification*) and an indication of any direct business, financial, personal, or other interest which they have in the application. Please note that future correspondence will only be sent to registered Interested and Affected Parties. You are also requested to pass this information to any person you feel should be notified.



P.O.Box 5367
HELDERBERG 7135
Fax: (086) 512 0154
Tel: (021)851 1616

e-mail: admin@enviroafrica.co.za

29 St James Street
Somerset West
VAT 4870170513
CK 97 46008/23

EnviroAfrica

Environmental Planning and Impact Assessment Consultants
Omgewingsbeplanning en Impakbeoordeling Konsultante

28 November 2012

Kai!garib Municipality
PO Box 8
Keimoes
8860

Att: Ms Desrey Flenies

NEMAA BASIC ASSESSMENT PUBLIC PARTICIPATION PROCESS
PROPOSED LOW COST HOUSING, KEIMOES, KAI! GARIB MUNICIPALITY, NORTHERN CAPE
DEPARTMENT OF ENVIRONMENTAL AFFAIRS (DEA) REF NO: NC/EIA/SIY/KAI/KEI1/2012 (NCP/EIA/0000180/2012)

Notice is hereby given of the public participation process in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended ("NEMA"), Environmental Impact Assessment Regulations 2010.

The proposed low cost housing development and associated infrastructure includes the below activities listed in terms of the NEMA EIA Regulations 2010. EnviroAfrica cc has been appointed by Kai !Garib Municipality, to undertake the **Environmental Impact Assessment** for the proposed project.

Application for environmental authorization to undertake the following activities:

Government Notice R544 (Listing Notice 1): Activity No. 11, 18, and 22

Government Notice R545 (Listing Notice 2): Activity No. 15

Government Notice R546 (Listing Notice 3): Activity No. 14

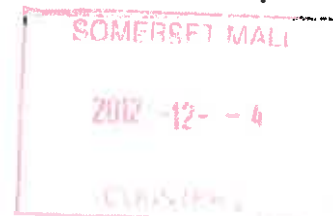
Application has been made to the Competent Authority to follow a Basic Assessment process, instead of a Scoping and Environmental Impact Report.

Project Description & Location: The site is located on a portion of Erf 666, Keimoes, located off the N14. The site is approximately 49ha.

It is proposed that the property be rezoned and subdivided for the development of serviced low cost housing including associated infrastructure. It is required due to the demand for serviced low cost housing and to provide housing for residents of Keimoes affected and displaced by flooding of the Orange River.

Application for exemption: The applicant is intending to apply for exemption from Regulation 10(2)(d) of Government Notice No. R543, which states that the applicant must within 12 days of the date of the decision, place a notice in the same newspaper(s) used for the placing of advertisements as part of the public participation process, informing Interested and Affected Parties of the decision, where the decision can be accessed and the right to appeal. Registered I&AP's will be notified of the decision by post and/or preferred method of communication.

Public Participation: Interested and Affected Parties (I&APs) are hereby notified of the application and invited to register (in writing) and/or provide initial comments and identify any issues, concerns or opportunities relating to this project to the contact details provided below, **on or before 25 January 2013**. In order to register or submit comment, I&APs should refer to the project name and DEA reference number above, and provide their name, address & contact details (*indicating your preferred method of notification*) and an indication of any direct business, financial, personal, or other interest which they have in the application. Please note that future correspondence will only be sent to registered Interested and Affected Parties. You are also requested to pass this information to any person you feel should be notified.



P.O.Box 5367
HELDERBERG 7135
Fax: (088) 512 0154
Tel: (021)851 1616

e-mail: admin@enviroafrica.co.za

29 St James Street
Somerset West
VAT 4870170513
CK 97 46008/23

EnviroAfrica

Environmental Planning and Impact Assessment Consultants
Omgewingsbeplanning en Impakbeoordeling Konsultante

28 November 2012

Department of Cooperative Governance and Human Settlements
Private Bag X5005
Kimberley
8300

Att: Ms Greta Apelgren-Narkedien

NEMAA BASIC ASSESSMENT PUBLIC PARTICIPATION PROCESS
PROPOSED LOW COST HOUSING, KEIMOES, KAI GARIB MUNICIPALITY, NORTHERN CAPE
DEPARTMENT OF ENVIRONMENTAL AFFAIRS (DEA) REF NO: NCEIA/SIY/KAI/KE1/2012 (NCP/EIA/0000180/2012)

Notice is hereby given of the public participation process in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended ("NEMA"), Environmental Impact Assessment Regulations 2010.

The proposed low cost housing development and associated infrastructure includes the below activities listed in terms of the NEMA EIA Regulations 2010. EnviroAfrica cc has been appointed by Kai I Garib Municipality, to undertake the **Environmental Impact Assessment** for the proposed project.

Application for environmental authorization to undertake the following activities:

Government Notice R544 (Listing Notice 1): Activity No. 11, 18, and 22

Government Notice R545 (Listing Notice 2): Activity No. 15

Government Notice R546 (Listing Notice 3): Activity No. 14

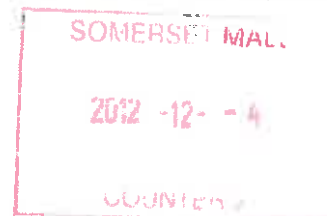
Application has been made to the Competent Authority to follow a Basic Assessment process, instead of a Scoping and Environmental Impact Report.

Project Description & Location: The site is located on a portion of Erf 666, Keimoes, located off the N14. The site is approximately 49ha.

It is proposed that the property be rezoned and subdivided for the development of serviced low cost housing including associated infrastructure. It is required due to the demand for serviced low cost housing and to provide housing for residents of Keimoes affected and displaced by flooding of the Orange River.

Application for exemption: The applicant is intending to apply for exemption from Regulation 10(2)(d) of Government Notice No. R543, which states that the applicant must within 12 days of the date of the decision, place a notice in the same newspaper(s) used for the placing of advertisements as part of the public participation process, informing Interested and Affected Parties of the decision, where the decision can be accessed and the right to appeal. Registered I&AP's will be notified of the decision by post and/or preferred method of communication.

Public Participation: Interested and Affected Parties (I&APs) are hereby notified of the application and invited to register (in writing) and/or provide initial comments and identify any issues, concerns or opportunities relating to this project to the contact details provided below, **on or before 25 January 2013**. In order to register or submit comment, I&APs should refer to the project name and DEA reference number above, and provide their name, address & contact details (*indicating your preferred method of notification*) and an indication of any direct business, financial, personal, or other interest which they have in the application. Please note that future correspondence will only be sent to registered Interested and Affected Parties. You are also requested to pass this information to any person you feel should be notified.



P.O.Box 5367
HELDERBERG 7135
Fax: (086) 512 0154
Tel: (021)851 1616

e-mail: admin@enviroafrica.co.za

29 St James Street
Somerset West
VAT 4870170513
CK 97 46008/23

EnviroAfrica

Environmental Planning and Impact Assessment Consultants
Omgewingsbeplanning en Impakbeoordeling Konsultante

28 November 2012

Kaigariëb Municipality
PO Box 8
Kelmoes
8860

Att: Ms Mary Titus

NEMAA BASIC ASSESSMENT PUBLIC PARTICIPATION PROCESS
PROPOSED LOW COST HOUSING, KEIMOES, KAI GARIB MUNICIPALITY, NORTHERN CAPE
DEPARTMENT OF ENVIRONMENTAL AFFAIRS (DEA) REF NO: NC/EIA/SIY/KAI/KEI1/2012 (NCP/EIA/0000180/2012)

Notice is hereby given of the public participation process in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended ("NEMA"), Environmental Impact Assessment Regulations 2010.

The proposed low cost housing development and associated infrastructure includes the below activities listed in terms of the NEMA EIA Regulations 2010. EnviroAfrica cc has been appointed by Kai !Garib Municipality, to undertake the **Environmental Impact Assessment** for the proposed project.

Application for environmental authorization to undertake the following activities:

Government Notice R544 (Listing Notice 1): Activity No. 11, 18, and 22

Government Notice R545 (Listing Notice 2): Activity No. 15

Government Notice R546 (Listing Notice 3): Activity No. 14

Application has been made to the Competent Authority to follow a Basic Assessment process, instead of a Scoping and Environmental Impact Report.

Project Description & Location: The site is located on a portion of Erf 666, Kelmoes, located off the N14. The site is approximately 49ha.

It is proposed that the property be rezoned and subdivided for the development of serviced low cost housing including associated infrastructure. It is required due to the demand for serviced low cost housing and to provide housing for residents of Kelmoes affected and displaced by flooding of the Orange River.

Application for exemption: The applicant is intending to apply for exemption from Regulation 10(2)(d) of Government Notice No. R543, which states that the applicant must within 12 days of the date of the decision, place a notice in the same newspaper(s) used for the placing of advertisements as part of the public participation process, informing Interested and Affected Parties of the decision, where the decision can be accessed and the right to appeal. Registered I&AP's will be notified of the decision by post and/or preferred method of communication.

Public Participation: Interested and Affected Parties (I&APs) are hereby notified of the application and invited to register (in writing) and/or provide initial comments and identify any issues, concerns or opportunities relating to this project to the contact details provided below, **on or before 25 January 2013**. In order to register or submit comment, I&APs should refer to the project name and DEA reference number above, and provide their name, address & contact details (*indicating your preferred method of notification*) and an indication of any direct business, financial, personal, or other interest which they have in the application. Please note that future correspondence will only be sent to registered Interested and Affected Parties. You are also requested to pass this information to any person you feel should be notified.



P.O.Box 5367
HELDERBERG 7135
Fax: (086) 512 0154
Tel: (021)851 1616

e-mail: admin@enviroafrica.co.za

29 St James Street
Somerset West
VAT 4870170513
CK 97 46008/23

EnviroAfrica

Environmental Planning and Impact Assessment Consultants
Omgewingsbeplanning en Impakbeoordeling Konsultante

28 November 2012

The Municipal Manager
Kailarib Municipality
PO Box 8
Keimoes
8860

Att: Mr Abraham Vosloo

NEMAA BASIC ASSESSMENT PUBLIC PARTICIPATION PROCESS

PROPOSED LOW COST HOUSING, KEIMOES, KAIL GARIB MUNICIPALITY, NORTHERN CAPE

DEPARTMENT OF ENVIRONMENTAL AFFAIRS (DEA) REF NO: NC/EIA/SIY/KAI/KE1/2012 (NCP/EIA/0000180/2012)

Notice is hereby given of the public participation process in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended ("NEMA"), Environmental Impact Assessment Regulations 2010.

The proposed low cost housing development and associated infrastructure includes the below activities listed in terms of the NEMA EIA Regulations 2010. EnviroAfrica cc has been appointed by Kail Garib Municipality, to undertake the Environmental Impact Assessment for the proposed project.

Application for environmental authorization to undertake the following activities:

Government Notice R544 (Listing Notice 1): Activity No. 11, 18, and 22

Government Notice R545 (Listing Notice 2): Activity No. 15

Government Notice R546 (Listing Notice 3): Activity No. 14

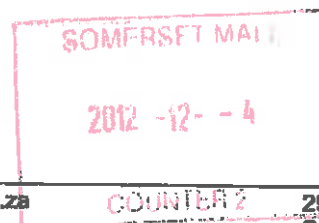
Application has been made to the Competent Authority to follow a Basic Assessment process, instead of a Scoping and Environmental Impact Report.

Project Description & Location: The site is located on a portion of Erf 666, Keimoes, located off the N14. The site is approximately 49ha.

It is proposed that the property be rezoned and subdivided for the development of serviced low cost housing including associated infrastructure. It is required due to the demand for serviced low cost housing and to provide housing for residents of Keimoes affected and displaced by flooding of the Orange River.

Application for exemption: The applicant is intending to apply for exemption from Regulation 10(2)(d) of Government Notice No. R543, which states that the applicant must within 12 days of the date of the decision, place a notice in the same newspaper(s) used for the placing of advertisements as part of the public participation process, informing Interested and Affected Parties of the decision, where the decision can be accessed and the right to appeal. Registered I&AP's will be notified of the decision by post and/or preferred method of communication.

Public Participation: Interested and Affected Parties (I&APs) are hereby notified of the application and invited to register (in writing) and/or provide initial comments and identify any issues, concerns or opportunities relating to this project to the contact details provided below, on or before 25 January 2013. In order to register or submit comment, I&APs should refer to the project name and DEA reference number above, and provide their name, address & contact details (*indicating your preferred method of notification*) and an indication of any direct business, financial, personal, or other interest which they have in the application. Please note that future correspondence will only be sent to registered Interested and Affected Parties. You are also requested to pass this information to any person you feel should be notified.



P.O.Box 5367
HELDERBERG 7135
Fax: (086) 512 0154
Tel: (021)851 1616

e-mail: admin@enviroafrica.co.za

COUNTER 2

29 St James Street
Somerset West
VAT 4870170513
CK 97 46008/23

EnviroAfrica

Environmental Planning and Impact Assessment Consultants
Omgewingsbeplanning en Impakbeoordeling Konsultante

28 November 2012

Siyanda District Municipality
Private Bag X6039
Upington
8800

Att: Mr D Ngxanga

NEMAA BASIC ASSESSMENT PUBLIC PARTICIPATION PROCESS

PROPOSED LOW COST HOUSING, KAKAMAS, KAI !GARIB MUNICIPALITY, NORTHERN CAPE

DEPARTMENT OF ENVIRONMENTAL AFFAIRS (DEA) REF NO: NC/EIA/SIY/KAI/KAK1/2012 (NCP/EIA/0000179/2012)

Notice is hereby given of the public participation process in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended ("NEMA"), Environmental Impact Assessment Regulations 2010.

The proposed low cost housing development and associated infrastructure includes the below activities listed in terms of the NEMA EIA Regulations 2010. EnviroAfrica cc has been appointed by Kai !Garib Municipality, to undertake the **Environmental Impact Assessment** for the proposed project.

Application for environmental authorization to undertake the following activities:

Government Notice R544 (Listing Notice 1): Activity No. 11, 18, 22 and 24

Government Notice R545 (Listing Notice 2): Activity No. 15

Government Notice R548 (Listing Notice 3): Activity No. 14

Application has been made to the Competent Authority to follow a Basic Assessment process, instead of a Scoping and Environmental Impact Report.

Project Description & Location: The site is located on Erf 1928, Kakamas, located off the R359. The site is approximately 46.8ha.

It is proposed that the property be rezoned and subdivided for the development of serviced low cost housing (approximately 694 erven), including associated infrastructure. It is required due to the demand for serviced low cost housing and to provide housing for residents of Kakamas affected and displaced by flooding of the Orange River.

Application for exemption: The applicant is intending to apply for exemption from Regulation 10(2)(d) of Government Notice No. R543, which states that the applicant must within 12 days of the date of the decision, place a notice in the same newspaper(s) used for the placing of advertisements as part of the public participation process, informing Interested and Affected Parties of the decision, where the decision can be accessed and the right to appeal. Registered I&AP's will be notified of the decision by post and/or preferred method of communication.

Public Participation: Interested and Affected Parties (I&APs) are hereby notified of the application and invited to register (in writing) and/or provide initial comments and identify any issues, concerns or opportunities relating to this project to the contact details provided below, on or before 25 January 2013. In order to register or submit comment, I&APs should refer to the project name and DEA reference number above, and provide their name, address & contact details (*indicating your preferred method of notification*) and an indication of any direct business, financial, personal, or other interest which they have in the application. Please note that future correspondence will only be sent to registered Interested and Affected Parties. You are also requested to pass this information to any person you feel should be notified.

P.O.Box 5367
HELDERBERG 7135
Fax: (086) 512 0154
Tel: (021)851 1616

e-mail: admin@enviroafrica.co.za

SOMERSET MALL

2012-12-29

COUNTER 7

29 St James Street
Somerset West
VAT 4870170513
CK 97 48008/23

EnviroAfrica

Environmental Planning and Impact Assessment Consultants
Omgewingsbeplanning en Impakbeoordeling Konsultante

28 November 2012

Kai!Garib Municipality
PO Box 8
Keimoes
8860

Att: Mr A Vosloo

NEMAA BASIC ASSESSMENT PUBLIC PARTICIPATION PROCESS

PROPOSED LOW COST HOUSING, KAKAMAS, KAI GARIB MUNICIPALITY, NORTHERN CAPE
DEPARTMENT OF ENVIRONMENTAL AFFAIRS (DEA) REF NO: NC/EIA/SIY/KAI/KAK1/2012 (NCP/EIA/0000179/2012)

Notice is hereby given of the public participation process in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended ("NEMA"), Environmental Impact Assessment Regulations 2010.

The proposed low cost housing development and associated infrastructure includes the below activities listed in terms of the NEMA EIA Regulations 2010. EnviroAfrica cc has been appointed by Kai IGarib Municipality, to undertake the **Environmental Impact Assessment** for the proposed project.

Application for environmental authorization to undertake the following activities:

Government Notice R544 (Listing Notice 1): Activity No. 11, 18, 22 and 24

Government Notice R545 (Listing Notice 2): Activity No. 15

Government Notice R546 (Listing Notice 3): Activity No. 14

Application has been made to the Competent Authority to follow a Basic Assessment process, instead of a Scoping and Environmental Impact Report.

Project Description & Location: The site is located on Erf 1928, Kakamas, located off the R359. The site is approximately 46.8ha.

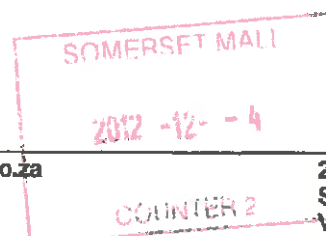
It is proposed that the property be rezoned and subdivided for the development of serviced low cost housing (approximately 694 erven), including associated infrastructure. It is required due to the demand for serviced low cost housing and to provide housing for residents of Kakamas affected and displaced by flooding of the Orange River.

Application for exemption: The applicant is intending to apply for exemption from Regulation 10(2)(d) of Government Notice No. R543, which states that the applicant must within 12 days of the date of the decision, place a notice in the same newspaper(s) used for the placing of advertisements as part of the public participation process, informing Interested and Affected Parties of the decision, where the decision can be accessed and the right to appeal. Registered I&AP's will be notified of the decision by post and/or preferred method of communication.

Public Participation: Interested and Affected Parties (I&APs) are hereby notified of the application and invited to register (in writing) and/or provide initial comments and identify any issues, concerns or opportunities relating to this project to the contact details provided below, **on or before 25 January 2013**. In order to register or submit comment, I&APs should refer to the project name and DEA reference number above, and provide their name, address & contact details (*indicating your preferred method of notification*) and an indication of any direct business, financial, personal, or other interest which they have in the application. Please note that future correspondence will only be sent to registered Interested and Affected Parties. You are also requested to pass this information to any person you feel should be notified.

P.O.Box 5367
HELDERBERG 7135
Fax: (086) 512 0154
Tel: (021)851 1816

e-mail: admin@enviroafrica.co.za



29 St James Street
Somerset West
VAT 4870170513
CK 97 46008/23

EnviroAfrica

Environmental Planning and Impact Assessment Consultants
Omgewingsbeplanning en Impakbeoordeling Konsultante

28 November 2012

Kai!Garieb Municipality
PO Box 8
Keimoes
8880

Att: Ms Brenda Bock

NEMAA BASIC ASSESSMENT PUBLIC PARTICIPATION PROCESS

PROPOSED LOW COST HOUSING, KAKAMAS, KAI! GARIB MUNICIPALITY, NORTHERN CAPE
DEPARTMENT OF ENVIRONMENTAL AFFAIRS (DEA) REF NO: NC/EIA/SIY/KAI/KAK1/2012 (NCP/EIA/0000179/2012)

Notice is hereby given of the public participation process in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended ("NEMA"), Environmental Impact Assessment Regulations 2010.

The proposed low cost housing development and associated infrastructure includes the below activities listed in terms of the NEMA EIA Regulations 2010. EnviroAfrica cc has been appointed by Kai !Garib Municipality, to undertake the **Environmental Impact Assessment** for the proposed project.

Application for environmental authorization to undertake the following activities:

Government Notice R544 (Listing Notice 1): Activity No. 11, 18, 22 and 24

Government Notice R545 (Listing Notice 2): Activity No. 15

Government Notice R546 (Listing Notice 3): Activity No. 14

Application has been made to the Competent Authority to follow a Basic Assessment process, instead of a Scoping and Environmental Impact Report.

Project Description & Location: The site is located on Erf 1928, Kakamas, located off the R359. The site is approximately 46.8ha.

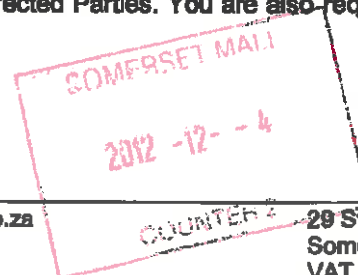
It is proposed that the property be rezoned and subdivided for the development of serviced low cost housing (approximately 694 erven), including associated infrastructure. It is required due to the demand for serviced low cost housing and to provide housing for residents of Kakamas affected and displaced by flooding of the Orange River.

Application for exemption: The applicant is intending to apply for exemption from Regulation 10(2)(d) of Government Notice No. R543, which states that the applicant must within 12 days of the date of the decision, place a notice in the same newspaper(s) used for the placing of advertisements as part of the public participation process, informing Interested and Affected Parties of the decision, where the decision can be accessed and the right to appeal. Registered I&AP's will be notified of the decision by post and/or preferred method of communication.

Public Participation: Interested and Affected Parties (I&APs) are hereby notified of the application and invited to register (in writing) and/or provide initial comments and identify any issues, concerns or opportunities relating to this project to the contact details provided below, **on or before 25 January 2013**. In order to register or submit comment, I&APs should refer to the project name and DEA reference number above, and provide their name, address & contact details (*indicating your preferred method of notification*) and an indication of any direct business, financial, personal, or other interest which they have in the application. Please note that future correspondence will only be sent to registered Interested and Affected Parties. You are also requested to pass this information to any person you feel should be notified.

P.O.Box 5367
HELDERBERG 7135
Fax: (086) 512 0154
Tel: (021)851 1616

e-mail: admin@enviroafrica.co.za



29 St James Street
Somerset West
VAT 4870170513
CK 97 46008/23

EnviroAfrica

Environmental Planning and Impact Assessment Consultants
Ongswingsbeplanning en Impakbeoordeling Konsultante

28 November 2012

KaiGarib Municipality
PO Box 8
Keimoes
8860

Att: Ms Angela du Plessis

NEMAA BASIC ASSESSMENT PUBLIC PARTICIPATION PROCESS

PROPOSED LOW COST HOUSING, KAKAMAS, KAI GARIB MUNICIPALITY, NORTHERN CAPE

DEPARTMENT OF ENVIRONMENTAL AFFAIRS (DEA) REF NO: NC/EIA/SIY/KAI/KAK1/2012 (NCP/EIA/0000179/2012)

Notice is hereby given of the public participation process in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended ("NEMA"), Environmental Impact Assessment Regulations 2010.

The proposed low cost housing development and associated infrastructure includes the below activities listed in terms of the NEMA EIA Regulations 2010. EnviroAfrica cc has been appointed by Kai IGarib Municipality, to undertake the **Environmental Impact Assessment** for the proposed project.

Application for environmental authorization to undertake the following activities:

Government Notice R544 (Listing Notice 1): Activity No. 11, 18, 22 and 24

Government Notice R545 (Listing Notice 2): Activity No. 15

Government Notice R546 (Listing Notice 3): Activity No. 14

Application has been made to the Competent Authority to follow a Basic Assessment process, instead of a Scoping and Environmental Impact Report.

Project Description & Location: The site is located on Erf 1928, Kakamas, located off the R359. The site is approximately 46.8ha.

It is proposed that the property be rezoned and subdivided for the development of serviced low cost housing (approximately 694 erven), including associated infrastructure. It is required due to the demand for serviced low cost housing and to provide housing for residents of Kakamas affected and displaced by flooding of the Orange River.

Application for exemption: The applicant is intending to apply for exemption from Regulation 10(2)(d) of Government Notice No. R543, which states that the applicant must within 12 days of the date of the decision, place a notice in the same newspaper(s) used for the placing of advertisements as part of the public participation process, informing Interested and Affected Parties of the decision, where the decision can be accessed and the right to appeal. Registered I&AP's will be notified of the decision by post and/or preferred method of communication.

Public Participation: Interested and Affected Parties (I&APs) are hereby notified of the application and invited to register (in writing) and/or provide initial comments and identify any issues, concerns or opportunities relating to this project to the contact details provided below, **on or before 25 January 2013**. In order to register or submit comment, I&APs should refer to the project name and DEA reference number above, and provide their name, address & contact details (*indicating your preferred method of notification*) and an indication of any direct business, financial, personal, or other interest which they have in the application. Please note that future correspondence will only be sent to registered interested and Affected Parties. You are also requested to pass this information to any person you feel should be notified.

SOMERSET MAIL
2012-12-4
SOMERSET 2

P.O.Box 5367
HELDERBERG 7135
Fax: (086) 512 0154
Tel: (021)851 1616

e-mail: admin@enviroafrica.co.za

29 St James Street
Somerset West
VAT 4870170513
CK 97 48008/23

EnviroAfrica

Environmental Planning and Impact Assessment Consultants
Omgewingsbeplanning en Impakbeoordeling Konsultante

28 November 2012

Kai!Garib Municipality
PO Box 8
Keimoes
8860

Att: Ms Desrey Fienies

NEMAA BASIC ASSESSMENT PUBLIC PARTICIPATION PROCESS

PROPOSED LOW COST HOUSING, KAKAMAS, KAI! GARIB MUNICIPALITY, NORTHERN CAPE
DEPARTMENT OF ENVIRONMENTAL AFFAIRS (DEA) REF NO: NC/EIA/SIY/KAI/KAK1/2012 (NCP/EIA/0000179/2012)

Notice is hereby given of the public participation process in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended ("NEMA"), Environmental Impact Assessment Regulations 2010.

The proposed low cost housing development and associated infrastructure includes the below activities listed in terms of the NEMA EIA Regulations 2010. EnviroAfrica cc has been appointed by Kai !Garib Municipality, to undertake the **Environmental Impact Assessment** for the proposed project.

Application for environmental authorization to undertake the following activities:

Government Notice R544 (Listing Notice 1): Activity No. 11, 18, 22 and 24

Government Notice R545 (Listing Notice 2): Activity No. 15

Government Notice R546 (Listing Notice 3): Activity No. 14

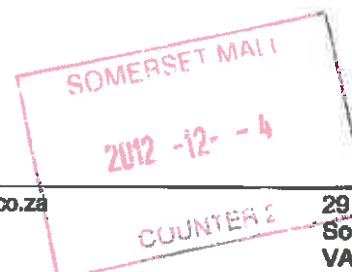
Application has been made to the Competent Authority to follow a Basic Assessment process, instead of a Scoping and Environmental Impact Report.

Project Description & Location: The site is located on Erf 1928, Kakamas, located off the R359. The site is approximately 46.8ha.

It is proposed that the property be rezoned and subdivided for the development of serviced low cost housing (approximately 694 erven), including associated infrastructure. It is required due to the demand for serviced low cost housing and to provide housing for residents of Kakamas affected and displaced by flooding of the Orange River.

Application for exemption: The applicant is intending to apply for exemption from Regulation 10(2)(d) of Government Notice No. R543, which states that the applicant must within 12 days of the date of the decision, place a notice in the same newspaper(s) used for the placing of advertisements as part of the public participation process, informing Interested and Affected Parties of the decision, where the decision can be accessed and the right to appeal. Registered I&AP's will be notified of the decision by post and/or preferred method of communication.

Public Participation: Interested and Affected Parties (I&APs) are hereby notified of the application and invited to register (in writing) and/or provide initial comments and identify any issues, concerns or opportunities relating to this project to the contact details provided below, on or before 25 January 2013. In order to register or submit comment, I&APs should refer to the project name and DEA reference number above, and provide their name, address & contact details (*indicating your preferred method of notification*) and an indication of any direct business, financial, personal, or other interest which they have in the application. Please note that future correspondence will only be sent to registered Interested and Affected Parties. You are also requested to pass this information to any person you feel should be notified.



P.O.Box 5367
HELDERBERG 7135
Fax: (086) 512 0154
Tel: (021)851 1816

e-mail: admin@enviroafrica.co.za

29 St James Street
Somerset West
VAT 4870170513
CK 97 46008/23

EnviroAfrica

Environmental Planning and Impact Assessment Consultants
Omgewingsbeplanning en Impakbeoordeling Konsultante

28 November 2012

Kai!Garib Municipality
PO Box 8
Keimoes
8860

Att: Mr Andrew Snyers

NEMAA BASIC ASSESSMENT PUBLIC PARTICIPATION PROCESS

PROPOSED LOW COST HOUSING, KAKAMAS, KAI GARIB MUNICIPALITY, NORTHERN CAPE

DEPARTMENT OF ENVIRONMENTAL AFFAIRS (DEA) REF NO: NC/EIA/SIY/KAI/KAK1/2012 (NCP/EIA/0000179/2012)

Notice is hereby given of the public participation process in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended ("NEMA"), Environmental Impact Assessment Regulations 2010.

The proposed low cost housing development and associated infrastructure includes the below activities listed in terms of the NEMA EIA Regulations 2010. EnviroAfrica cc has been appointed by Kai !Garib Municipality, to undertake the Environmental Impact Assessment for the proposed project.

Application for environmental authorization to undertake the following activities:

Government Notice R544 (Listing Notice 1): Activity No. 11, 18, 22 and 24

Government Notice R545 (Listing Notice 2): Activity No. 15

Government Notice R546 (Listing Notice 3): Activity No. 14

Application has been made to the Competent Authority to follow a Basic Assessment process, instead of a Scoping and Environmental Impact Report.

Project Description & Location: The site is located on Erf 1928, Kakamas, located off the R359. The site is approximately 46.8ha.

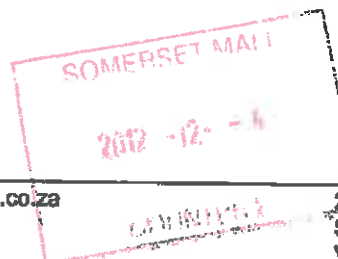
It is proposed that the property be rezoned and subdivided for the development of serviced low cost housing (approximately 694 erven), including associated infrastructure. It is required due to the demand for serviced low cost housing and to provide housing for residents of Kakamas affected and displaced by flooding of the Orange River.

Application for exemption: The applicant is intending to apply for exemption from Regulation 10(2)(d) of Government Notice No. R543, which states that the applicant must within 12 days of the date of the decision, place a notice in the same newspaper(s) used for the placing of advertisements as part of the public participation process, informing Interested and Affected Parties of the decision, where the decision can be accessed and the right to appeal. Registered I&AP's will be notified of the decision by post and/or preferred method of communication.

Public Participation: Interested and Affected Parties (I&APs) are hereby notified of the application and invited to register (in writing) and/or provide initial comments and identify any issues, concerns or opportunities relating to this project to the contact details provided below, on or before 25 January 2013. In order to register or submit comment, I&APs should refer to the project name and DEA reference number above, and provide their name, address & contact details (*indicating your preferred method of notification*) and an indication of any direct business, financial, personal, or other interest which they have in the application. Please note that future correspondence will only be sent to registered Interested and Affected Parties. You are also requested to pass this information to any person you feel should be notified.

P.O.Box 5367
HELDERBERG 7135
Fax: (086) 512 0154
Tel: (021)851 1616

e-mail: admin@enviroafrica.co.za



29 St James Street
Somerset West
VAT 4870170513
CK 97 48008/23

EnviroAfrica

Environmental Planning and Impact Assessment Consultants
Omgewingsbeplanning en Impakbeoordeling Konsultante

28 November 2012

Kai/Garib Municipality
PO Box 8
Keimoes
8860

Att: Mr Walter Klim

NEMAA BASIC ASSESSMENT PUBLIC PARTICIPATION PROCESS

PROPOSED LOW COST HOUSING, KAKAMAS, KAI GARIB MUNICIPALITY, NORTHERN CAPE
DEPARTMENT OF ENVIRONMENTAL AFFAIRS (DEA) REF NO: NC/EIA/SIY/KAI/KAK1/2012 (NCP/EIA/0000179/2012)

Notice is hereby given of the public participation process in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended ("NEMA"), Environmental Impact Assessment Regulations 2010.

The proposed low cost housing development and associated infrastructure includes the below activities listed in terms of the NEMA EIA Regulations 2010. EnviroAfrica cc has been appointed by Kai IGarib Municipality, to undertake the **Environmental Impact Assessment** for the proposed project.

Application for environmental authorization to undertake the following activities:

Government Notice R544 (Listing Notice 1): Activity No. 11, 18, 22 and 24

Government Notice R545 (Listing Notice 2): Activity No. 15

Government Notice R546 (Listing Notice 3): Activity No. 14

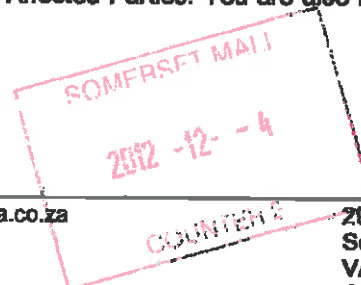
Application has been made to the Competent Authority to follow a Basic Assessment process, instead of a Scoping and Environmental Impact Report.

Project Description & Location: The site is located on Erf 1928, Kakamas, located off the R359. The site is approximately 46.8ha.

It is proposed that the property be rezoned and subdivided for the development of serviced low cost housing (approximately 694 erven), including associated infrastructure. It is required due to the demand for serviced low cost housing and to provide housing for residents of Kakamas affected and displaced by flooding of the Orange River.

Application for exemption: The applicant is intending to apply for exemption from Regulation 10(2)(d) of Government Notice No. R543, which states that the applicant must within 12 days of the date of the decision, place a notice in the same newspaper(s) used for the placing of advertisements as part of the public participation process, informing Interested and Affected Parties of the decision, where the decision can be accessed and the right to appeal. Registered I&AP's will be notified of the decision by post and/or preferred method of communication.

Public Participation: Interested and Affected Parties (I&APs) are hereby notified of the application and invited to register (in writing) and/or provide initial comments and identify any issues, concerns or opportunities relating to this project to the contact details provided below, on or before 25 January 2013. In order to register or submit comment, I&APs should refer to the project name and DEA reference number above, and provide their name, address & contact details (*indicating your preferred method of notification*) and an indication of any direct business, financial, personal, or other interest which they have in the application. Please note that future correspondence will only be sent to registered Interested and Affected Parties. You are also requested to pass this information to any person you feel should be notified.



P.O.Box 5367
HELDERBERG 7135
Fax: (086) 512 0154
Tel: (021)851 1816

e-mail: admin@enviroafrica.co.za

29 St James Street
Somerset West
VAT 4870170513
CK 97 46008/23

EnviroAfrica

Environmental Planning and Impact Assessment Consultants
Omgewingsbeplanning en Impakbeoordeling Konsultante

28 November 2012

Kall Garieb Municipality
PO Box 8
Keimoes
8860

Att: Mr Anwill Isaacs

NEMAA BASIC ASSESSMENT PUBLIC PARTICIPATION PROCESS

PROPOSED LOW COST HOUSING, KAKAMAS, KAI GARIB MUNICIPALITY, NORTHERN CAPE

DEPARTMENT OF ENVIRONMENTAL AFFAIRS (DEA) REF NO: NC/EIA/SIY/KAI/KAK1/2012 (NCP/EIA/0000179/2012)

Notice is hereby given of the public participation process in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended ("NEMA"), Environmental Impact Assessment Regulations 2010.

The proposed low cost housing development and associated infrastructure includes the below activities listed in terms of the NEMA EIA Regulations 2010. EnviroAfrica cc has been appointed by Kai Garib Municipality, to undertake the **Environmental Impact Assessment** for the proposed project.

Application for environmental authorization to undertake the following activities:

Government Notice R544 (Listing Notice 1): Activity No. 11, 18, 22 and 24

Government Notice R545 (Listing Notice 2): Activity No. 15

Government Notice R546 (Listing Notice 3): Activity No. 14

Application has been made to the Competent Authority to follow a Basic Assessment process, instead of a Scoping and Environmental Impact Report.

Project Description & Location: The site is located on Erf 1928, Kakamas, located off the R359. The site is approximately 46.8ha.

It is proposed that the property be rezoned and subdivided for the development of serviced low cost housing (approximately 694 erven), including associated infrastructure. It is required due to the demand for serviced low cost housing and to provide housing for residents of Kakamas affected and displaced by flooding of the Orange River.

Application for exemption: The applicant is intending to apply for exemption from Regulation 10(2)(d) of Government Notice No. R543, which states that the applicant must within 12 days of the date of the decision, place a notice in the same newspaper(s) used for the placing of advertisements as part of the public participation process, informing Interested and Affected Parties of the decision, where the decision can be accessed and the right to appeal. Registered I&AP's will be notified of the decision by post and/or preferred method of communication.

Public Participation: Interested and Affected Parties (I&APs) are hereby notified of the application and invited to register (in writing) and/or provide initial comments and identify any issues, concerns or opportunities relating to this project to the contact details provided below, on or before 25 January 2013. In order to register or submit comment, I&APs should refer to the project name and DEA reference number above, and provide their name, address & contact details (*indicating your preferred method of notification*) and an indication of any direct business, financial, personal, or other interest which they have in the application. Please note that future correspondence will only be sent to registered Interested and Affected Parties. You are also requested to pass this information to any person you feel should be notified.

P.O.Box 5367
HELDERBERG 7135
Fax: (088) 512 0154
Tel: (021)851 1616

e-mail: admin@enviroafrica.co.za

29 St James Street
Somerset West
VAT 4870170513
CK 97 48008/23



EnviroAfrica

Environmental Planning and Impact Assessment Consultants
Omgewingsbeplanning en Impakbeoordeling Konsultante

28 November 2012

Kai/Garib Municipality
PO Box 8
Kai/Garib
8860

Att: Mr Willem Kamfer

NEMAA BASIC ASSESSMENT PUBLIC PARTICIPATION PROCESS

PROPOSED LOW COST HOUSING, KAKAMAS, KAI GARIB MUNICIPALITY, NORTHERN CAPE

DEPARTMENT OF ENVIRONMENTAL AFFAIRS (DEA) REF NO: NC/EIA/SIY/KAI/KAK1/2012 (NCP/EIA/0000179/2012)

Notice is hereby given of the public participation process in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended ("NEMA"), Environmental Impact Assessment Regulations 2010.

The proposed low cost housing development and associated infrastructure includes the below activities listed in terms of the NEMA EIA Regulations 2010. EnviroAfrica cc has been appointed by Kai/Garib Municipality, to undertake the **Environmental Impact Assessment** for the proposed project.

Application for environmental authorization to undertake the following activities:

Government Notice R544 (Listing Notice 1): Activity No. 11, 18, 22 and 24

Government Notice R545 (Listing Notice 2): Activity No. 15

Government Notice R546 (Listing Notice 3): Activity No. 14

Application has been made to the Competent Authority to follow a Basic Assessment process, instead of a Scoping and Environmental Impact Report.

Project Description & Location: The site is located on Erf 1928, Kakamas, located off the R359. The site is approximately 46.8ha.

It is proposed that the property be rezoned and subdivided for the development of serviced low cost housing (approximately 694 erven), including associated infrastructure. It is required due to the demand for serviced low cost housing and to provide housing for residents of Kakamas affected and displaced by flooding of the Orange River.

Application for exemption: The applicant is intending to apply for exemption from Regulation 10(2)(d) of Government Notice No. R543, which states that the applicant must within 12 days of the date of the decision, place a notice in the same newspaper(s) used for the placing of advertisements as part of the public participation process, Informing Interested and Affected Parties of the decision, where the decision can be accessed and the right to appeal. Registered I&AP's will be notified of the decision by post and/or preferred method of communication.

Public Participation: Interested and Affected Parties (I&APs) are hereby notified of the application and invited to register (in writing) and/or provide initial comments and identify any issues, concerns or opportunities relating to this project to the contact details provided below, on or before 25 January 2013. In order to register or submit comment, I&APs should refer to the project name and DEA reference number above, and provide their name, address & contact details (*indicating your preferred method of notification*) and an indication of any direct business, financial, personal, or other interest which they have in the application. Please note that future correspondence will only be sent to registered Interested and Affected Parties. You are also requested to pass this information to any person you feel should be notified.



P.O.Box 5387
HELDERBERG 7135
Fax: (086) 512 0154
Tel: (021)851 1616

e-mail: admin@enviroafrica.co.za

28 St James Street
Somerset West
VAT 4870170513
CK 97 48008/23

EnviroAfrica

Environmental Planning and Impact Assessment Consultants
Omgewingsbeplanning en Impakbeoordeling Konsultante

28 November 2012

Kai!Garieb Municipality
PO Box 8
Keimoes
8880

Attn: Ms Anna De Bruin

NEMAA BASIC ASSESSMENT PUBLIC PARTICIPATION PROCESS

PROPOSED LOW COST HOUSING, KAKAMAS, KAI! GARIB MUNICIPALITY, NORTHERN CAPE
DEPARTMENT OF ENVIRONMENTAL AFFAIRS (DEA) REF NO: NC/EIA/SIY/KAI!/KAK1/2012 (NCP/EIA/0000179/2012)

Notice is hereby given of the public participation process in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended ("NEMA"), Environmental Impact Assessment Regulations 2010.

The proposed low cost housing development and associated infrastructure includes the below activities listed in terms of the NEMA EIA Regulations 2010. EnviroAfrica cc has been appointed by Kai !Garib Municipality, to undertake the **Environmental Impact Assessment** for the proposed project.

Application for environmental authorization to undertake the following activities:

Government Notice R544 (Listing Notice 1): Activity No. 11, 18, 22 and 24

Government Notice R545 (Listing Notice 2): Activity No. 15

Government Notice R546 (Listing Notice 3): Activity No. 14

Application has been made to the Competent Authority to follow a Basic Assessment process, instead of a Scoping and Environmental Impact Report.

Project Description & Location: The site is located on Erf 1928, Kakamas, located off the R359. The site is approximately 46.8ha.

It is proposed that the property be rezoned and subdivided for the development of serviced low cost housing (approximately 694 erven), including associated infrastructure. It is required due to the demand for serviced low cost housing and to provide housing for residents of Kakamas affected and displaced by flooding of the Orange River.

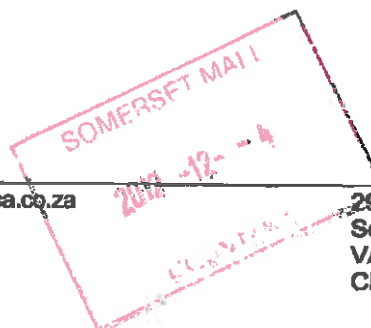
Application for exemption: The applicant is intending to apply for exemption from Regulation 10(2)(d) of Government Notice No. R543, which states that the applicant must within 12 days of the date of the decision, place a notice in the same newspaper(s) used for the placing of advertisements as part of the public participation process, informing Interested and Affected Parties of the decision, where the decision can be accessed and the right to appeal. Registered I&AP's will be notified of the decision by post and/or preferred method of communication.

Public Participation: Interested and Affected Parties (I&APs) are hereby notified of the application and invited to register (in writing) and/or provide initial comments and identify any issues, concerns or opportunities relating to this project to the contact details provided below, on or before 25 January 2013. In order to register or submit comment, I&APs should refer to the project name and DEA reference number above, and provide their name, address & contact details (*indicating your preferred method of notification*) and an indication of any direct business, financial, personal, or other interest which they have in the application. Please note that future correspondence will only be sent to registered Interested and Affected Parties. You are also requested to pass this information to any person you feel should be notified.

P.O.Box 5367
HELDERBERG 7135
Fax: (086) 512 0154
Tel: (021)851 1616

e-mail: admin@enviroafrica.co.za

29 St James Street
Somerset West
VAT 4870170513
CK 97 46008/23



EnviroAfrica

Environmental Planning and Impact Assessment Consultants
Omgewingsbeplanning en Impakbeoordeling Konsultante

28 November 2012

Kai!Garib Municipality
PO Box 8
Keimoes
8860

Att: Mr Erwin Meyer

NEMAA BASIC ASSESSMENT PUBLIC PARTICIPATION PROCESS

PROPOSED LOW COST HOUSING, KAKAMAS, KAI! GARIB MUNICIPALITY, NORTHERN CAPE

DEPARTMENT OF ENVIRONMENTAL AFFAIRS (DEA) REF NO: NC/EIA/SIY/KAI/KAK1/2012 (NCP/EIA/0000179/2012)

Notice is hereby given of the public participation process in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended ("NEMA"), Environmental Impact Assessment Regulations 2010.

The proposed low cost housing development and associated infrastructure includes the below activities listed in terms of the NEMA EIA Regulations 2010. EnviroAfrica cc has been appointed by Kai !Garib Municipality, to undertake the **Environmental Impact Assessment** for the proposed project.

Application for environmental authorization to undertake the following activities:

Government Notice R544 (Listing Notice 1): Activity No. 11, 18, 22 and 24

Government Notice R545 (Listing Notice 2): Activity No. 15

Government Notice R546 (Listing Notice 3): Activity No. 14

Application has been made to the Competent Authority to follow a Basic Assessment process, instead of a Scoping and Environmental Impact Report.

Project Description & Location: The site is located on Erf 1928, Kakamas, located off the R359. The site is approximately 46.8ha.

It is proposed that the property be rezoned and subdivided for the development of serviced low cost housing (approximately 694 erven), including associated infrastructure. It is required due to the demand for serviced low cost housing and to provide housing for residents of Kakamas affected and displaced by flooding of the Orange River.

Application for exemption: The applicant is intending to apply for exemption from Regulation 10(2)(d) of Government Notice No. R543, which states that the applicant must within 12 days of the date of the decision, place a notice in the same newspaper(s) used for the placing of advertisements as part of the public participation process, informing Interested and Affected Parties of the decision, where the decision can be accessed and the right to appeal. Registered I&AP's will be notified of the decision by post and/or preferred method of communication.

Public Participation: Interested and Affected Parties (I&APs) are hereby notified of the application and invited to register (in writing) and/or provide initial comments and identify any issues, concerns or opportunities relating to this project to the contact details provided below, on or before 25 January 2013. In order to register or submit comment, I&APs should refer to the project name and DEA reference number above, and provide their name, address & contact details (*indicating your preferred method of notification*) and an indication of any direct business, financial, personal, or other interest which they have in the application. Please note that future correspondence will only be sent to registered Interested and Affected Parties. You are also requested to pass this information to any person you feel should be notified.

P.O.Box 5367
HELDERBERG 7135
Fax: (086) 512 0154
Tel: (021)851 1616

e-mail: admin@enviroafrica.co.za



29 St James Street
Somerset West
VAT 4870170513
CK 97 46008/23

EnviroAfrica

Environmental Planning and Impact Assessment Consultants
Omgewingsbeplanning en Impakbeoordeling Konsultante

28 November 2012

Kai Garib Municipality
PO Box 8
Kelmoes
8860

Att: Ms April van der Westhuizen

NEMAA BASIC ASSESSMENT PUBLIC PARTICIPATION PROCESS

PROPOSED LOW COST HOUSING, KAKAMAS, KAI GARIB MUNICIPALITY, NORTHERN CAPE
DEPARTMENT OF ENVIRONMENTAL AFFAIRS (DEA) REF NO: NCP/EIA/SIY/KAI/KAK1/2012 (NCP/EIA/0000179/2012)

Notice is hereby given of the public participation process in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended ("NEMA"), Environmental Impact Assessment Regulations 2010.

The proposed low cost housing development and associated infrastructure includes the below activities listed in terms of the NEMA EIA Regulations 2010. EnviroAfrica cc has been appointed by Kai Garib Municipality, to undertake the **Environmental Impact Assessment** for the proposed project.

Application for environmental authorization to undertake the following activities:

Government Notice R544 (Listing Notice 1): Activity No. 11, 18, 22 and 24

Government Notice R545 (Listing Notice 2): Activity No. 15

Government Notice R546 (Listing Notice 3): Activity No. 14

Application has been made to the Competent Authority to follow a Basic Assessment process, instead of a Scoping and Environmental Impact Report.

Project Description & Location: The site is located on Erf 1928, Kakamas, located off the R359. The site is approximately 46.8ha.

It is proposed that the property be rezoned and subdivided for the development of serviced low cost housing (approximately 694 erven), including associated infrastructure. It is required due to the demand for serviced low cost housing and to provide housing for residents of Kakamas affected and displaced by flooding of the Orange River.

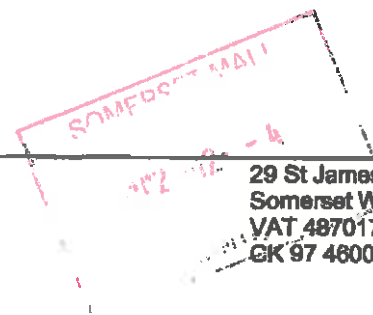
Application for exemption: The applicant is intending to apply for exemption from Regulation 10(2)(d) of Government Notice No. R543, which states that the applicant must within 12 days of the date of the decision, place a notice in the same newspaper(s) used for the placing of advertisements as part of the public participation process, informing interested and affected parties of the decision, where the decision can be accessed and the right to appeal. Registered I&AP's will be notified of the decision by post and/or preferred method of communication.

Public Participation: Interested and affected parties (I&APs) are hereby notified of the application and invited to register (in writing) and/or provide initial comments and identify any issues, concerns or opportunities relating to this project to the contact details provided below, **on or before 25 January 2013**. In order to register or submit comment, I&APs should refer to the project name and DEA reference number above, and provide their name, address & contact details (*indicating your preferred method of notification*) and an indication of any direct business, financial, personal, or other interest which they have in the application. Please note that future correspondence will only be sent to registered interested and affected parties. You are also requested to pass this information to any person you feel should be notified.

P.O.Box 5367
HELDERBERG 7135
Fax: (086) 512 0154
Tel: (021)851 1616

e-mail: admin@enviroafrica.co.za

29 St James Street
Somerset West
VAT 4870170513
GK 97 46008/23



EnviroAfrica

Environmental Planning and Impact Assessment Consultants
Ongewingsbeplanning en Impakbeoordeling Konsultante

28 November 2012

Kai!Garib Municipality
PO Box 8
Keimoes
8860

Att: Avllon van Wyk

NEMAA BASIC ASSESSMENT PUBLIC PARTICIPATION PROCESS

PROPOSED LOW COST HOUSING, KAKAMAS, KAI GARIB MUNICIPALITY, NORTHERN CAPE
DEPARTMENT OF ENVIRONMENTAL AFFAIRS (DEA) REF NO: NC/EIA/SIY/KAI/KAK1/2012 (NCP/EIA/0000179/2012)

Notice is hereby given of the public participation process in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended ("NEMA"), Environmental Impact Assessment Regulations 2010.

The proposed low cost housing development and associated Infrastructure includes the below activities listed in terms of the NEMA EIA Regulations 2010. EnviroAfrica cc has been appointed by Kai !Garib Municipality, to undertake the **Environmental Impact Assessment** for the proposed project.

Application for environmental authorization to undertake the following activities:

Government Notice R544 (Listing Notice 1): Activity No. 11, 18, 22 and 24

Government Notice R545 (Listing Notice 2): Activity No. 15

Government Notice R546 (Listing Notice 3): Activity No. 14

Application has been made to the Competent Authority to follow a Basic Assessment process, instead of a Scoping and Environmental Impact Report.

Project Description & Location: The site is located on Erf 1928, Kakamas, located off the R359. The site is approximately 46.8ha.

It is proposed that the property be rezoned and subdivided for the development of serviced low cost housing (approximately 694 erven), including associated Infrastructure. It is required due to the demand for serviced low cost housing and to provide housing for residents of Kakamas affected and displaced by flooding of the Orange River.

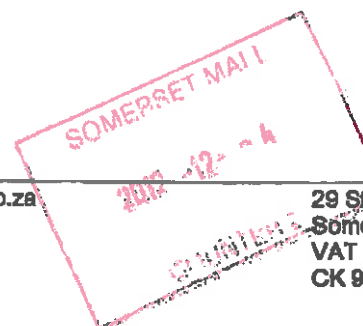
Application for exemption: The applicant is intending to apply for exemption from Regulation 10(2)(d) of Government Notice No. R543, which states that the applicant must within 12 days of the date of the decision, place a notice in the same newspaper(s) used for the placing of advertisements as part of the public participation process, informing Interested and Affected Parties of the decision, where the decision can be accessed and the right to appeal. Registered I&AP's will be notified of the decision by post and/or preferred method of communication.

Public Participation: Interested and Affected Parties (I&APs) are hereby notified of the application and invited to register (in writing) and/or provide initial comments and identify any issues, concerns or opportunities relating to this project to the contact details provided below, **on or before 25 January 2013**. In order to register or submit comment, I&APs should refer to the project name and DEA reference number above, and provide their name, address & contact details (*indicating your preferred method of notification*) and an indication of any direct business, financial, personal, or other interest which they have in the application. Please note that future correspondence will only be sent to registered Interested and Affected Parties. You are also requested to pass this information to any person you feel should be notified.

P.O.Box 5367
HELDERBERG 7135
Fax: (086) 512 0154
Tel: (021)851 1616

e-mail: admin@enviroafrica.co.za

29 St. James Street
Somerset West
VAT 4870170513
CK 97 46008/23



EnviroAfrica

Environmental Planning and Impact Assessment Consultants
Omgewingsbeplanning en Impakbeoordeling Konsultante

28 November 2012

KaiGarib Municipality
PO Box 8
Kelmoes
8860

Att: Mr James Styles

NEMAA BASIC ASSESSMENT PUBLIC PARTICIPATION PROCESS

PROPOSED LOW COST HOUSING, KAKAMAS, KAI GARIB MUNICIPALITY, NORTHERN CAPE
DEPARTMENT OF ENVIRONMENTAL AFFAIRS (DEA) REF NO: NC/EIA/SIY/KAI/KAK1/2012 (NCP/EIA/0000179/2012)

Notice is hereby given of the public participation process in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended ("NEMA"), Environmental Impact Assessment Regulations 2010.

The proposed low cost housing development and associated infrastructure includes the below activities listed in terms of the NEMA EIA Regulations 2010. EnviroAfrica cc has been appointed by Kai IGarib Municipality, to undertake the **Environmental Impact Assessment** for the proposed project.

Application for environmental authorization to undertake the following activities:

Government Notice R544 (Listing Notice 1): Activity No. 11, 18, 22 and 24

Government Notice R545 (Listing Notice 2): Activity No. 15

Government Notice R546 (Listing Notice 3): Activity No. 14

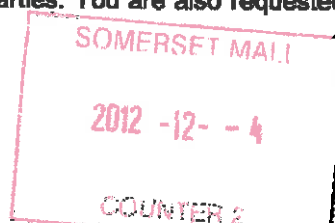
Application has been made to the Competent Authority to follow a Basic Assessment process, instead of a Scoping and Environmental Impact Report.

Project Description & Location: The site is located on Erf 1928, Kakamas, located off the R359. The site is approximately 46.8ha.

It is proposed that the property be rezoned and subdivided for the development of serviced low cost housing (approximately 694 erven), including associated infrastructure. It is required due to the demand for serviced low cost housing and to provide housing for residents of Kakamas affected and displaced by flooding of the Orange River.

Application for exemption: The applicant is intending to apply for exemption from Regulation 10(2)(d) of Government Notice No. R543, which states that the applicant must within 12 days of the date of the decision, place a notice in the same newspaper(s) used for the placing of advertisements as part of the public participation process, informing Interested and Affected Parties of the decision, where the decision can be accessed and the right to appeal. Registered I&AP's will be notified of the decision by post and/or preferred method of communication.

Public Participation: Interested and Affected Parties (I&APs) are hereby notified of the application and invited to register (in writing) and/or provide initial comments and identify any issues, concerns or opportunities relating to this project to the contact details provided below, **on or before 25 January 2013**. In order to register or submit comment, I&APs should refer to the project name and DEA reference number above, and provide their name, address & contact details (*indicating your preferred method of notification*) and an indication of any direct business, financial, personal, or other interest which they have in the application. Please note that future correspondence will only be sent to registered Interested and Affected Parties. You are also requested to pass this information to any person you feel should be notified.



P.O.Box 5367
HELDERBERG 7135
Fax: (086) 512 0154
Tel: (021)851 1816

e-mail: admin@enviroafrica.co.za

29 St James Street
Somerset West
VAT 4870170513
CK 97 46008/23

EnviroAfrica

Environmental Planning and Impact Assessment Consultants
Omgewingsbeplanning en Impakbeoordeling Konsultante

28 November 2012

Kai!Garieb Municipality
PO Box 8
Keimoes
8860

Att: Ms Mary Titus

NEMAA BASIC ASSESSMENT PUBLIC PARTICIPATION PROCESS

PROPOSED LOW COST HOUSING, KAKAMAS, KAI GARIB MUNICIPALITY, NORTHERN CAPE
DEPARTMENT OF ENVIRONMENTAL AFFAIRS (DEA) REF NO: NC/EIA/SIY/KAI/KAK1/2012 (NCP/EIA/0000179/2012)

Notice is hereby given of the public participation process in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended ("NEMA"), Environmental Impact Assessment Regulations 2010.

The proposed low cost housing development and associated infrastructure includes the below activities listed in terms of the NEMA EIA Regulations 2010. EnviroAfrica cc has been appointed by Kai !Garib Municipality, to undertake the **Environmental Impact Assessment** for the proposed project.

Application for environmental authorization to undertake the following activities:

Government Notice R544 (Listing Notice 1): Activity No. 11, 18, 22 and 24

Government Notice R545 (Listing Notice 2): Activity No. 15

Government Notice R546 (Listing Notice 3): Activity No. 14

Application has been made to the Competent Authority to follow a Basic Assessment process, instead of a Scoping and Environmental Impact Report.

Project Description & Location: The site is located on Erf 1928, Kakamas, located off the R359. The site is approximately 46.8ha.

It is proposed that the property be rezoned and subdivided for the development of serviced low cost housing (approximately 694 erven), including associated infrastructure. It is required due to the demand for serviced low cost housing and to provide housing for residents of Kakamas affected and displaced by flooding of the Orange River.

Application for exemption: The applicant is intending to apply for exemption from Regulation 10(2)(d) of Government Notice No. R543, which states that the applicant must within 12 days of the date of the decision, place a notice in the same newspaper(s) used for the placing of advertisements as part of the public participation process, informing interested and affected parties of the decision, where the decision can be accessed and the right to appeal. Registered I&AP's will be notified of the decision by post and/or preferred method of communication.

Public Participation: Interested and Affected Parties (I&APs) are hereby notified of the application and invited to register (in writing) and/or provide initial comments and identify any issues, concerns or opportunities relating to this project to the contact details provided below, **on or before 25 January 2013**. In order to register or submit comment, I&APs should refer to the project name and DEA reference number above, and provide their name, address & contact details (*indicating your preferred method of notification*) and an indication of any direct business, financial, personal, or other interest which they have in the application. Please note that future correspondence will only be sent to registered interested and affected parties. You are also requested to pass this information to any person you feel should be notified.

P.O.Box 5367
HELDERBERG 7135
Fax: (086) 512 0154
Tel: (021)851 1816

e-mail: admin@enviroafrica.co.za

SOMERSET MAIL

2012 -12- - 4

COUNTER 2

29 St James Street
Somerset West
VAT 4870170513
CK 97 46008/23

EnviroAfrica

Environmental Planning and Impact Assessment Consultants
Omgewingsbeplanning en Impakbeoordeling Konsultante

28 November 2012

Kai/Garieb Municipality
PO Box 8
Keimoes
8860

Att: Mr Thom Solomon

NEMAA BASIC ASSESSMENT PUBLIC PARTICIPATION PROCESS
PROPOSED LOW COST HOUSING, KAKAMAS, KAI GARIB MUNICIPALITY, NORTHERN CAPE
DEPARTMENT OF ENVIRONMENTAL AFFAIRS (DEA) REF NO: NC/EIA/SIY/KAI/KAK1/2012 (NCP/EIA/0000179/2012)

Notice is hereby given of the public participation process in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended ("NEMA"), Environmental Impact Assessment Regulations 2010.

The proposed low cost housing development and associated Infrastructure includes the below activities listed in terms of the NEMA EIA Regulations 2010. EnviroAfrica cc has been appointed by Kai IGarib Municipality, to undertake the **Environmental Impact Assessment** for the proposed project.

Application for environmental authorization to undertake the following activities:

Government Notice R544 (Listing Notice 1): Activity No. 11, 18, 22 and 24

Government Notice R545 (Listing Notice 2): Activity No. 15

Government Notice R546 (Listing Notice 3): Activity No. 14

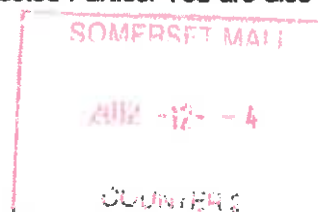
Application has been made to the Competent Authority to follow a Basic Assessment process, instead of a Scoping and Environmental Impact Report.

Project Description & Location: The site is located on Erf 1928, Kakamas, located off the R359. The site is approximately 46.8ha.

It is proposed that the property be rezoned and subdivided for the development of serviced low cost housing (approximately 694 erven), including associated infrastructure. It is required due to the demand for serviced low cost housing and to provide housing for residents of Kakamas affected and displaced by flooding of the Orange River.

Application for exemption: The applicant is intending to apply for exemption from Regulation 10(2)(d) of Government Notice No. R543, which states that the applicant must within 12 days of the date of the decision, place a notice in the same newspaper(s) used for the placing of advertisements as part of the public participation process, informing Interested and Affected Parties of the decision, where the decision can be accessed and the right to appeal. Registered I&AP's will be notified of the decision by post and/or preferred method of communication.

Public Participation: Interested and Affected Parties (I&APs) are hereby notified of the application and invited to register (in writing) and/or provide initial comments and identify any issues, concerns or opportunities relating to this project to the contact details provided below, **on or before 25 January 2013**. In order to register or submit comment, I&APs should refer to the project name and DEA reference number above, and provide their name, address & contact details (*indicating your preferred method of notification*) and an indication of any direct business, financial, personal, or other interest which they have in the application. Please note that future correspondence will only be sent to registered Interested and Affected Parties. You are also requested to pass this information to any person you feel should be notified.



P.O.Box 5387
HELDERBERG 7135
Fax: (086) 512 0154
Tel: (021)851 1616

e-mail: admin@enviroafrica.co.za

28 St James Street
Somerset West
VAT 4870170513
CK 97 46008/23

EnviroAfrica

Environmental Planning and Impact Assessment Consultants
Omgewingsbeplanning en Impakbeoordeling Konsultante

28 November 2012

Northern Cape Department of Agriculture & Land Reform
Private Bag X5018
Kimberley
8300

Att: Mr Wonders Mothibi

NEMAA BASIC ASSESSMENT PUBLIC PARTICIPATION PROCESS
PROPOSED LOW COST HOUSING, KAKAMAS, KAI GARIB MUNICIPALITY, NORTHERN CAPE
DEPARTMENT OF ENVIRONMENTAL AFFAIRS (DEA) REF NO: NC/EIA/SIY/KAI/KAK1/2012 (NCP/EIA/0000179/2012)

Notice is hereby given of the public participation process in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended ("NEMA"), Environmental Impact Assessment Regulations 2010.

The proposed low cost housing development and associated infrastructure includes the below activities listed in terms of the NEMA EIA Regulations 2010. EnviroAfrica cc has been appointed by Kai I Garib Municipality, to undertake the Environmental Impact Assessment for the proposed project.

Application for environmental authorization to undertake the following activities:

Government Notice R544 (Listing Notice 1): Activity No. 11, 18, 22 and 24

Government Notice R545 (Listing Notice 2): Activity No. 15

Government Notice R546 (Listing Notice 3): Activity No. 14

Application has been made to the Competent Authority to follow a Basic Assessment process, instead of a Scoping and Environmental Impact Report.

Project Description & Location: The site is located on Erf 1928, Kakamas, located off the R359. The site is approximately 46.8ha.

It is proposed that the property be rezoned and subdivided for the development of serviced low cost housing (approximately 694 erven), including associated infrastructure. It is required due to the demand for serviced low cost housing and to provide housing for residents of Kakamas affected and displaced by flooding of the Orange River.

Application for exemption: The applicant is intending to apply for exemption from Regulation 10(2)(d) of Government Notice No. R543, which states that the applicant must within 12 days of the date of the decision, place a notice in the same newspaper(s) used for the placing of advertisements as part of the public participation process, informing Interested and Affected Parties of the decision, where the decision can be accessed and the right to appeal. Registered I&AP's will be notified of the decision by post and/or preferred method of communication.

Public Participation: Interested and Affected Parties (I&APs) are hereby notified of the application and invited to register (in writing) and/or provide initial comments and identify any issues, concerns or opportunities relating to this project to the contact details provided below, on or before 25 January 2013. In order to register or submit comment, I&APs should refer to the project name and DEA reference number above, and provide their name, address & contact details (*indicating your preferred method of notification*) and an indication of any direct business, financial, personal, or other interest which they have in the application. Please note that future correspondence will only be sent to registered Interested and Affected Parties. You are also requested to pass this information to any person you feel should be notified.

SOMERSET MALI

2012-12-4

P.O.Box 5367
HELDERBERG 7135
Fax: (086) 512 0154
Tel: (021)851 1616

e-mail: admin@enviroafrica.co.za

COUNTER

29 St James Street
Somerset West
VAT 4870170513
CK 97 46008/23

EnviroAfrica

Environmental Planning and Impact Assessment Consultants
Omgewingsbeplanning en Impakbeoordeling Konsultante

28 November 2012

Department of Cooperative Governance and Human Settlements
Private Bag X5005
Kimberley
8300

Att: Ms Greta Apelgren-Narkedien

NEMAA BASIC ASSESSMENT PUBLIC PARTICIPATION PROCESS
PROPOSED LOW COST HOUSING, KAKAMAS, KAI! GARIB MUNICIPALITY, NORTHERN CAPE
DEPARTMENT OF ENVIRONMENTAL AFFAIRS (DEA) REF NO: NC/EIA/SIY/KAI/KAK1/2012 (NCP/EIA/0000179/2012)

Notice is hereby given of the public participation process in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended ("NEMA"), Environmental Impact Assessment Regulations 2010.

The proposed low cost housing development and associated infrastructure includes the below activities listed in terms of the NEMA EIA Regulations 2010. EnviroAfrica cc has been appointed by Kai !Garib Municipality, to undertake the **Environmental Impact Assessment** for the proposed project.

Application for environmental authorization to undertake the following activities:

Government Notice R544 (Listing Notice 1): Activity No. 11, 18, 22 and 24

Government Notice R545 (Listing Notice 2): Activity No. 15

Government Notice R546 (Listing Notice 3): Activity No. 14

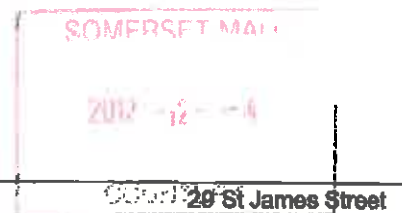
Application has been made to the Competent Authority to follow a Basic Assessment process, instead of a Scoping and Environmental Impact Report.

Project Description & Location: The site is located on Erf 1928, Kakamas, located off the R350. The site is approximately 46.8ha.

It is proposed that the property be rezoned and subdivided for the development of serviced low cost housing (approximately 694 erven), including associated infrastructure. It is required due to the demand for serviced low cost housing and to provide housing for residents of Kakamas affected and displaced by flooding of the Orange River.

Application for exemption: The applicant is intending to apply for exemption from Regulation 10(2)(d) of Government Notice No. R543, which states that the applicant must within 12 days of the date of the decision, place a notice in the same newspaper(s) used for the placing of advertisements as part of the public participation process, informing Interested and Affected Parties of the decision, where the decision can be accessed and the right to appeal. Registered I&AP's will be notified of the decision by post and/or preferred method of communication.

Public Participation: Interested and Affected Parties (I&APs) are hereby notified of the application and invited to register (in writing) and/or provide initial comments and identify any issues, concerns or opportunities relating to this project to the contact details provided below, **on or before 25 January 2013**. In order to register or submit comment, I&APs should refer to the project name and DEA reference number above, and provide their name, address & contact details (*indicating your preferred method of notification*) and an indication of any direct business, financial, personal, or other interest which they have in the application. Please note that future correspondence will only be sent to registered Interested and Affected Parties. You are also requested to pass this information to any person you feel should be notified.



P.O.Box 5367
HELDERBERG 7135
Fax: (086) 512 0154
Tel: (021)851 1816

e-mail: admin@enviroafrica.co.za

20 St James Street
Somerset West
VAT 4870170513
CK 97 46008/23

EnviroAfrica

Environmental Planning and Impact Assessment Consultants
Omgewingsbeplanning en Impakbeoordeling Konsultante

28 November 2012

Department of Roads and Public Works
PO Box 3132
Kimberley
8301

Att: Mr K Nogwili

NEMAA BASIC ASSESSMENT PUBLIC PARTICIPATION PROCESS
PROPOSED LOW COST HOUSING, KAKAMAS, KAI GARIB MUNICIPALITY, NORTHERN CAPE
DEPARTMENT OF ENVIRONMENTAL AFFAIRS (DEA) REF NO: NC/EIA/SIY/KAI/KAK1/2012 (NCP/EIA/0000179/2012)

Notice is hereby given of the public participation process in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended ("NEMA"), Environmental Impact Assessment Regulations 2010.

The proposed low cost housing development and associated infrastructure includes the below activities listed in terms of the NEMA EIA Regulations 2010. EnviroAfrica cc has been appointed by Kai IGarib Municipality, to undertake the **Environmental Impact Assessment** for the proposed project.

Application for environmental authorization to undertake the following activities:

Government Notice R544 (Listing Notice 1): Activity No. 11, 18, 22 and 24

Government Notice R545 (Listing Notice 2): Activity No. 15

Government Notice R546 (Listing Notice 3): Activity No. 14

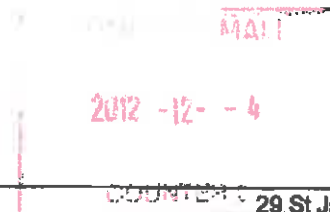
Application has been made to the Competent Authority to follow a Basic Assessment process. Instead of a Scoping and Environmental Impact Report.

Project Description & Location: The site is located on Erf 1928, Kakamas, located off the R359. The site is approximately 46.8ha.

It is proposed that the property be rezoned and subdivided for the development of serviced low cost housing (approximately 694 erven), including associated infrastructure. It is required due to the demand for serviced low cost housing and to provide housing for residents of Kakamas affected and displaced by flooding of the Orange River.

Application for exemption: The applicant is intending to apply for exemption from Regulation 10(2)(d) of Government Notice No. R543, which states that the applicant must within 12 days of the date of the decision, place a notice in the same newspaper(s) used for the placing of advertisements as part of the public participation process, informing Interested and Affected Parties of the decision, where the decision can be accessed and the right to appeal. Registered I&AP's will be notified of the decision by post and/or preferred method of communication.

Public Participation: Interested and Affected Parties (I&APs) are hereby notified of the application and invited to register (in writing) and/or provide initial comments and identify any issues, concerns or opportunities relating to this project to the contact details provided below, **on or before 25 January 2013**. In order to register or submit comment, I&APs should refer to the project name and DEA reference number above, and provide their name, address & contact details (*indicating your preferred method of notification*) and an indication of any direct business, financial, personal, or other interest which they have in the application. Please note that future correspondence will only be sent to registered Interested and Affected Parties. You are also requested to pass this information to any person you feel should be notified.



P.O.Box 5387
HELDERBERG 7135
Fax: (086) 512 0154
Tel: (021)851 1616

e-mail: admin@enviroafrica.co.za

29, St James Street
Somerset West
VAT 4870170513
CK 97 46008/23

EnviroAfrica

Environmental Planning and Impact Assessment Consultants
Omgewingsbeplanning en Impakbeoordeling Konsultante

28 November 2012

The Provincial Manager
SAHRA Northern Cape
PO Box 1930
Kimberley
8301

NEMAA BASIC ASSESSMENT PUBLIC PARTICIPATION PROCESS
PROPOSED LOW COST HOUSING, KAKAMAS, KAI !GARIB MUNICIPALITY, NORTHERN CAPE
DEPARTMENT OF ENVIRONMENTAL AFFAIRS (DEA) REF NO: NC/EIA/SIY/KAI/KAK1/2012 (NCP/EIA/0000179/2012)

Notice is hereby given of the public participation process in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended ("NEMA"), Environmental Impact Assessment Regulations 2010.

The proposed low cost housing development and associated infrastructure includes the below activities listed in terms of the NEMA EIA Regulations 2010. EnviroAfrica cc has been appointed by Kai !Garib Municipality, to undertake the **Environmental Impact Assessment** for the proposed project.

Application for environmental authorization to undertake the following activities:

Government Notice R544 (Listing Notice 1): Activity No. 11, 18, 22 and 24

Government Notice R545 (Listing Notice 2): Activity No. 15

Government Notice R546 (Listing Notice 3): Activity No. 14

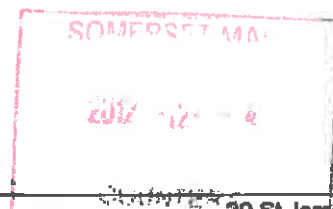
Application has been made to the Competent Authority to follow a Basic Assessment process. Instead of a Scoping and Environmental Impact Report.

Project Description & Location: The site is located on Erf 1928, Kakamas, located off the R359. The site is approximately 46.8ha.

It is proposed that the property be rezoned and subdivided for the development of serviced low cost housing (approximately 694 erven), including associated infrastructure. It is required due to the demand for serviced low cost housing and to provide housing for residents of Kakamas affected and displaced by flooding of the Orange River.

Application for exemption: The applicant is intending to apply for exemption from Regulation 10(2)(d) of Government Notice No. R543, which states that the applicant must within 12 days of the date of the decision, place a notice in the same newspaper(s) used for the placing of advertisements as part of the public participation process, informing Interested and Affected Parties of the decision, where the decision can be accessed and the right to appeal. Registered I&AP's will be notified of the decision by post and/or preferred method of communication.

Public Participation: Interested and Affected Parties (I&APs) are hereby notified of the application and invited to register (in writing) and/or provide initial comments and identify any issues, concerns or opportunities relating to this project to the contact details provided below, **on or before 25 January 2013**. In order to register or submit comment, I&APs should refer to the project name and DEA reference number above, and provide their name, address & contact details (*indicating your preferred method of notification*) and an indication of any direct business, financial, personal, or other interest which they have in the application. Please note that future correspondence will only be sent to registered Interested and Affected Parties. You are also requested to pass this information to any person you feel should be notified.



P.O.Box 5367
HELDERBERG 7135
Fax: (086) 512 0154
Tel: (021)851 1616

e-mail: admin@enviroafrica.co.za

29 St James Street
Somerset West
VAT 4870170513
CK 97 46008/23

EnviroAfrica

Environmental Planning and Impact Assessment Consultants
Omgewingsbeplanning en Impakbeoordeling Konsultante

28 November 2012

The Department of Water Affairs-Northern Cape
Private Bag X8101
Kimberley
8300

Att: Mr LJ Saunders

NEMAA BASIC ASSESSMENT PUBLIC PARTICIPATION PROCESS
PROPOSED LOW COST HOUSING, KAKAMAS, KAI GARIB MUNICIPALITY, NORTHERN CAPE
DEPARTMENT OF ENVIRONMENTAL AFFAIRS (DEA) REF NO: NC/EIA/SIY/KAI//KAK1/2012 (NCP/EIA/0000179/2012)

Notice is hereby given of the public participation process in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended ("NEMA"), Environmental Impact Assessment Regulations 2010.

The proposed low cost housing development and associated infrastructure includes the below activities listed in terms of the NEMA EIA Regulations 2010. EnviroAfrica cc has been appointed by Kai !Garib Municipality, to undertake the **Environmental Impact Assessment** for the proposed project.

Application for environmental authorization to undertake the following activities:

Government Notice R544 (Listing Notice 1): Activity No. 11, 18, 22 and 24

Government Notice R545 (Listing Notice 2): Activity No. 15

Government Notice R546 (Listing Notice 3): Activity No. 14

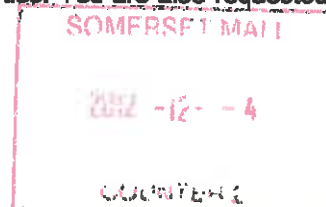
Application has been made to the Competent Authority to follow a Basic Assessment process, instead of a Scoping and Environmental Impact Report.

Project Description & Location: The site is located on Erf 1928, Kakamas, located off the R359. The site is approximately 46.8ha.

It is proposed that the property be rezoned and subdivided for the development of serviced low cost housing (approximately 894 erven), including associated infrastructure. It is required due to the demand for serviced low cost housing and to provide housing for residents of Kakamas affected and displaced by flooding of the Orange River.

Application for exemption: The applicant is intending to apply for exemption from Regulation 10(2)(d) of Government Notice No. R543, which states that the applicant must within 12 days of the date of the decision, place a notice in the same newspaper(s) used for the placing of advertisements as part of the public participation process, informing Interested and Affected Parties of the decision, where the decision can be accessed and the right to appeal. Registered I&AP's will be notified of the decision by post and/or preferred method of communication.

Public Participation: Interested and Affected Parties (I&APs) are hereby notified of the application and invited to register (in writing) and/or provide initial comments and identify any issues, concerns or opportunities relating to this project to the contact details provided below, on or before 25 January 2013. In order to register or submit comment, I&APs should refer to the project name and DEA reference number above, and provide their name, address & contact details (*indicating your preferred method of notification*) and an indication of any direct business, financial, personal, or other interest which they have in the application. Please note that future correspondence will only be sent to registered Interested and Affected Parties. You are also requested to pass this information to any person you feel should be notified.



P.O.Box 5367
HELDERBERG 7135
Fax: (086) 512 0154
Tel: (021)851 1816

e-mail: admin@enviroafrica.co.za

29 St James Street
Somerset West
VAT 4870170513
CK 97 48008/23

EnviroAfrica

Environmental Planning and Impact Assessment Consultants
Omgewingsbeplanning en Impakbeoordeling Konsultante

28 November 2012

The Department of Environment and Nature Conservation
PO Box 231
Uplington
8800

Att: Mr Yaphi

NEMAA BASIC ASSESSMENT PUBLIC PARTICIPATION PROCESS
PROPOSED LOW COST HOUSING, KAKAMAS, KAI GARIB MUNICIPALITY, NORTHERN CAPE
DEPARTMENT OF ENVIRONMENTAL AFFAIRS (DEA) REF NO: NG/EIA/SIY/KAI/KAK1/2012 (NCP/EIA/0000179/2012)

Notice is hereby given of the public participation process in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended ("NEMA"), Environmental Impact Assessment Regulations 2010.

The proposed low cost housing development and associated infrastructure includes the below activities listed in terms of the NEMA EIA Regulations 2010. EnviroAfrica cc has been appointed by Kai !Garib Municipality, to undertake the Environmental Impact Assessment for the proposed project.

Application for environmental authorization to undertake the following activities:

Government Notice R544 (Listing Notice 1): Activity No. 11, 18, 22 and 24

Government Notice R545 (Listing Notice 2): Activity No. 15

Government Notice R546 (Listing Notice 3): Activity No. 14

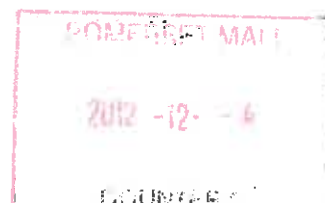
Application has been made to the Competent Authority to follow a Basic Assessment process, instead of a Scoping and Environmental Impact Report.

Project Description & Location: The site is located on Erf 1928, Kakamas, located off the R359. The site is approximately 46.8ha.

It is proposed that the property be rezoned and subdivided for the development of serviced low cost housing (approximately 694 erven), including associated infrastructure. It is required due to the demand for serviced low cost housing and to provide housing for residents of Kakamas affected and displaced by flooding of the Orange River.

Application for exemption: The applicant is intending to apply for exemption from Regulation 10(2)(d) of Government Notice No. R543, which states that the applicant must within 12 days of the date of the decision, place a notice in the same newspaper(s) used for the placing of advertisements as part of the public participation process, informing Interested and Affected Parties of the decision, where the decision can be accessed and the right to appeal. Registered I&AP's will be notified of the decision by post and/or preferred method of communication.

Public Participation: Interested and Affected Parties (I&APs) are hereby notified of the application and invited to register (in writing) and/or provide initial comments and identify any issues, concerns or opportunities relating to this project to the contact details provided below, **on or before 25 January 2013**. In order to register or submit comment, I&APs should refer to the project name and DEA reference number above, and provide their name, address & contact details (*indicating your preferred method of notification*) and an indication of any direct business, financial, personal, or other interest which they have in the application. Please note that future correspondence will only be sent to registered Interested and Affected Parties. You are also requested to pass this information to any person you feel should be notified.



P.O.Box 5367
HELDERBERG 7135
Fax: (086) 512 0154
Tel: (021)851 1616

e-mail: admin@enviroafrica.co.za

29 St James Street
Somerset West
VAT 4870170513
CK 97 46008/23

EnviroAfrica

Environmental Planning and Impact Assessment Consultants
Ongewingsbeplanning en Impakbeoordeling Konsultante

28 November 2012

Kaigarib Municipality
PO Box 8
Keimoes
8860

Att: Mr Kamfer

NEMAA BASIC ASSESSMENT PUBLIC PARTICIPATION PROCESS

PROPOSED LOW COST HOUSING, KEIMOES, KAI GARIB MUNICIPALITY, NORTHERN CAPE
DEPARTMENT OF ENVIRONMENTAL AFFAIRS (DEA) REF NO: NC/EIA/SIY/KAI/KEI2/2012 (NCP/EIA/0000181/2012)

Notice is hereby given of the public participation process in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended ("NEMA"), Environmental Impact Assessment Regulations 2010.

The proposed low cost housing development and associated infrastructure includes the below activities listed in terms of the NEMA EIA Regulations 2010. EnviroAfrica cc has been appointed by Kai !Garib Municipality, to undertake the **Environmental Impact Assessments** for the proposed project.

Application for environmental authorization to undertake the following activities:

Government Notice R544 (Listing Notice 1): Activity No. 11, 18, and 22

Government Notice R545 (Listing Notice 2): Activity No. 15

Government Notice R546 (Listing Notice 3): Activity No. 14

Application has been made to the Competent Authority to follow a Basic Assessment process, instead of a Scoping and Environmental Impact Report.

Project Description & Location: The application is located over two sites located on Erf 666, Keimoes. Site 1 - Off Protea Avenue and Blesbok Avenue, Site 2 - Off Alwyn Street. Combined, the site is approximately 146ha and 1200 residential erven are proposed.

It is proposed that the property be rezoned and subdivided for the development of serviced low cost housing including associated infrastructure. It is required due to the demand for serviced low cost housing and to provide housing for residents of Keimoes affected and displaced by flooding of the Orange River.

Application for exemption: The applicant is intending to apply for exemption from Regulation 10(2)(d) of Government Notice No. R543, which states that the applicant must within 12 days of the date of the decision, place a notice in the same newspaper(s) used for the placing of advertisements as part of the public participation process, informing Interested and Affected Parties of the decision, where the decision can be accessed and the right to appeal. Registered I&AP's will be notified of the decision by post and/or preferred method of communication.

Public Participation: Interested and Affected Parties (I&APs) are hereby notified of the application and invited to register (in writing) and/or provide initial comments and identify any issues, concerns or opportunities relating to this project to the contact details provided below, on or before 25 January 2013. In order to register or submit comment, I&APs should refer to the project name and DEA reference number above, and provide their name, address & contact details (*indicating your preferred method of notification*) and an indication of any direct business, financial, personal, or other interest which they have in the application. Please note that future correspondence will only be sent to registered Interested and Affected Parties. You are also requested to pass this information to any person you feel should be notified.

SOMERSET MAIL
2012 -12- -4
COUNTER 2

P.O.Box 5367
HELDERBERG 7135
Fax: (086) 512 0154
Tel: (021)851 1816

e-mail: admin@enviroafrica.co.za

29 St James Street
Somerset West
VAT 4870170513
CK 97 46008/23

EnviroAfrica

Environmental Planning and Impact Assessment Consultants
Omgewingsbeplanning en Impakbeoordeling Konsultante

Kaigariëb Municipality
PO Box 8
Keimoes
8860

28 November 2012

Att: Mr Meyer

NEMAA BASIC ASSESSMENT PUBLIC PARTICIPATION PROCESS

PROPOSED LOW COST HOUSING, KEIMOES, KAI GARIB MUNICIPALITY, NORTHERN CAPE

DEPARTMENT OF ENVIRONMENTAL AFFAIRS (DEA) REF NO: NC/EIA/SIY/KAI/KEI2/2012 (NCP/EIA/0000181/2012)

Notice is hereby given of the public participation process in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended ("NEMA"), Environmental Impact Assessment Regulations 2010.

The proposed low cost housing development and associated infrastructure includes the below activities listed in terms of the NEMA EIA Regulations 2010. EnviroAfrica cc has been appointed by Kai IGarib Municipality, to undertake the **Environmental Impact Assessments** for the proposed project.

Application for environmental authorization to undertake the following activities:

Government Notice R544 (Listing Notice 1): Activity No. 11, 18, and 22

Government Notice R545 (Listing Notice 2): Activity No. 15

Government Notice R546 (Listing Notice 3): Activity No. 14

Application has been made to the Competent Authority to follow a Basic Assessment process, instead of a Scoping and Environmental Impact Report.

Project Description & Location: The application is located over two sites located on Erf 666, Keimoes. Site 1 - Off Protea Avenue and Blesbok Avenue, Site 2 - Off Alwyn Street. Combined, the site is approximately 146ha and 1200 residential erven are proposed.

It is proposed that the property be rezoned and subdivided for the development of serviced low cost housing including associated infrastructure. It is required due to the demand for serviced low cost housing and to provide housing for residents of Keimoes affected and displaced by flooding of the Orange River.

Application for exemption: The applicant is intending to apply for exemption from Regulation 10(2)(d) of Government Notice No. R543, which states that the applicant must within 12 days of the date of the decision, place a notice in the same newspaper(s) used for the placing of advertisements as part of the public participation process, informing Interested and Affected Parties of the decision, where the decision can be accessed and the right to appeal. Registered I&AP's will be notified of the decision by post and/or preferred method of communication.

Public Participation: Interested and Affected Parties (I&APs) are hereby notified of the application and invited to register (in writing) and/or provide initial comments and identify any issues, concerns or opportunities relating to this project to the contact details provided below, on or before 25 January 2013. In order to register or submit comment, I&APs should refer to the project name and DEA reference number above, and provide their name, address & contact details (*indicating your preferred method of notification*) and an indication of any direct business, financial, personal, or other interest which they have in the application. Please note that future correspondence will only be sent to registered Interested and Affected Parties. You are also requested to pass this information to any person you feel should be notified.



P.O.Box 5367
HELDERBERG 7135
Fax: (086) 512 0154
Tel: (021)851 1616

e-mail: admin@enviroafrica.co.za

29 St James Street
Somerset West
VAT 4870170513
CK 97 48008/23

EnviroAfrica

Environmental Planning and Impact Assessment Consultants
Omgewingsbeplanning en Impakbeoordeling Konsultante

28 November 2012

Kailarib Municipality
PO Box 8
Keimoes
8860

Att: Mr Snyers

NEMAA BASIC ASSESSMENT PUBLIC PARTICIPATION PROCESS

PROPOSED LOW COST HOUSING, KEIMOOES, KAI GARIB MUNICIPALITY, NORTHERN CAPE
DEPARTMENT OF ENVIRONMENTAL AFFAIRS (DEA) REF NO: NC/EIA/SIY/KAI/KEI2/2012 (NCP/EIA/0000181/2012)

Notice is hereby given of the public participation process in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended ("NEMA"), Environmental Impact Assessment Regulations 2010.

The proposed low cost housing development and associated infrastructure includes the below activities listed in terms of the NEMA EIA Regulations 2010. EnviroAfrica cc has been appointed by Kai IGarib Municipality, to undertake the **Environmental Impact Assessments** for the proposed project.

Application for environmental authorization to undertake the following activities:

Government Notice R544 (Listing Notice 1): Activity No. 11, 18, and 22
Government Notice R545 (Listing Notice 2): Activity No. 15
Government Notice R546 (Listing Notice 3): Activity No. 14

Application has been made to the Competent Authority to follow a Basic Assessment process, instead of a Scoping and Environmental Impact Report.

Project Description & Location: The application is located over two sites located on Erf 666, Keimoes. Site 1 - Off Protea Avenue and Blesbok Avenue, Site 2 - Off Alwyn Street. Combined, the site is approximately 146ha and 1200 residential erven are proposed.

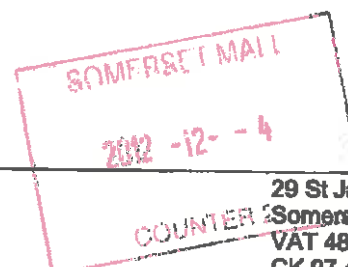
It is proposed that the property be rezoned and subdivided for the development of serviced low cost housing including associated infrastructure. It is required due to the demand for serviced low cost housing and to provide housing for residents of Keimoes affected and displaced by flooding of the Orange River.

Application for exemption: The applicant is intending to apply for exemption from Regulation 10(2)(d) of Government Notice No. R543, which states that the applicant must within 12 days of the date of the decision, place a notice in the same newspaper(s) used for the placing of advertisements as part of the public participation process, informing Interested and Affected Parties of the decision, where the decision can be accessed and the right to appeal. Registered I&AP's will be notified of the decision by post and/or preferred method of communication.

Public Participation: Interested and Affected Parties (I&APs) are hereby notified of the application and invited to register (in writing) and/or provide initial comments and identify any issues, concerns or opportunities relating to this project to the contact details provided below, on or before 25 January 2013. In order to register or submit comment, I&APs should refer to the project name and DEA reference number above, and provide their name, address & contact details (*indicating your preferred method of notification*) and an indication of any direct business, financial, personal, or other interest which they have in the application. Please note that future correspondence will only be sent to registered Interested and Affected Parties. You are also requested to pass this information to any person you feel should be notified.

P.O.Box 5367
HELDERBERG 7135
Fax: (086) 512 0154
Tel: (021)851 1616

e-mail: admin@enviroafrica.co.za



29 St James Street
Somerset West
VAT 4870170513
CK 97 46008/23

EnviroAfrica

Environmental Planning and Impact Assessment Consultants
Omgewingsbeplanning en Impakbeoordeling Konsultante

28 November 2012

Kai!garib Municipality
PO Box 8
Keimoes
8860

Att: Ms Titus

NEMAA BASIC ASSESSMENT PUBLIC PARTICIPATION PROCESS

PROPOSED LOW COST HOUSING, KEIMOES, KAI GARIB MUNICIPALITY, NORTHERN CAPE
DEPARTMENT OF ENVIRONMENTAL AFFAIRS (DEA) REF NO: NC/EIA/SIY/KAI/KEI2/2012 (NCP/EIA/0000181/2012)

Notice is hereby given of the public participation process in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended ("NEMA"), Environmental Impact Assessment Regulations 2010.

The proposed low cost housing development and associated infrastructure includes the below activities listed in terms of the NEMA EIA Regulations 2010. EnviroAfrica cc has been appointed by Kai!Garib Municipality, to undertake the **Environmental Impact Assessments** for the proposed project.

Application for environmental authorization to undertake the following activities:

Government Notice R544 (Listing Notice 1): Activity No. 11, 18, and 22

Government Notice R545 (Listing Notice 2): Activity No. 15

Government Notice R546 (Listing Notice 3): Activity No. 14

Application has been made to the Competent Authority to follow a Basic Assessment process, instead of a Scoping and Environmental Impact Report.

Project Description & Location: The application is located over two sites located on Erf 666, Keimoes. Site 1 - Off Protea Avenue and Blesbok Avenue, Site 2 - Off Alwyn Street. Combined, the site is approximately 146ha and 1200 residential erven are proposed.

It is proposed that the property be rezoned and subdivided for the development of serviced low cost housing including associated infrastructure. It is required due to the demand for serviced low cost housing and to provide housing for residents of Keimoes affected and displaced by flooding of the Orange River.

Application for exemption: The applicant is intending to apply for exemption from Regulation 10(2)(d) of Government Notice No. R543, which states that the applicant must within 12 days of the date of the decision, place a notice in the same newspaper(s) used for the placing of advertisements as part of the public participation process, informing Interested and Affected Parties of the decision, where the decision can be accessed and the right to appeal. Registered I&AP's will be notified of the decision by post and/or preferred method of communication.

Public Participation: Interested and Affected Parties (I&APs) are hereby notified of the application and invited to register (in writing) and/or provide initial comments and identify any issues, concerns or opportunities relating to this project to the contact details provided below, on or before 25 January 2013. In order to register or submit comment, I&APs should refer to the project name and DEA reference number above, and provide their name, address & contact details (*indicating your preferred method of notification*) and an indication of any direct business, financial, personal, or other interest which they have in the application. Please note that future correspondence will only be sent to registered Interested and Affected Parties. You are also requested to pass this information to any person you feel should be notified.

P.O.Box 5367
HELDERBERG 7135
Fax: (086) 512 0154
Tel: (021)851 1816

e-mail: admin@enviroafrica.co.za



29 St James Street
Somerset West
VAT 4870170513
CK 97 46008/23

EnviroAfrica

Environmental Planning and Impact Assessment Consultants
Omgewingsbeplanning en Impakbeoordeling Konsultante

Kaifgarieb Municipality
PO Box 8
Keimoes
8860

28 November 2012

Att: Mr Styles

NEMAA BASIC ASSESSMENT PUBLIC PARTICIPATION PROCESS

PROPOSED LOW COST HOUSING, KEIMOES, KAI GARIB MUNICIPALITY, NORTHERN CAPE
DEPARTMENT OF ENVIRONMENTAL AFFAIRS (DEA) REF NO: NC/EIA/SIY/KAI/KEI2/2012 (NCP/EIA/0000181/2012)

Notice is hereby given of the public participation process in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended ("NEMA"), Environmental Impact Assessment Regulations 2010.

The proposed low cost housing development and associated infrastructure includes the below activities listed in terms of the NEMA EIA Regulations 2010. EnviroAfrica cc has been appointed by Kai IGarib Municipality, to undertake the **Environmental Impact Assessments** for the proposed project.

Application for environmental authorization to undertake the following activities:

Government Notice R544 (Listing Notice 1): Activity No. 11, 18, and 22

Government Notice R545 (Listing Notice 2): Activity No. 15

Government Notice R546 (Listing Notice 3): Activity No. 14

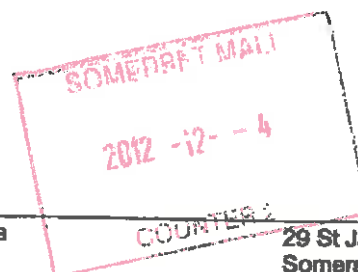
Application has been made to the Competent Authority to follow a Basic Assessment process. Instead of a Scoping and Environmental Impact Report.

Project Description & Location: The application is located over two sites located on Erf 666, Keimoes. Site 1 - Off Protea Avenue and Blesbok Avenue, Site 2 - Off Alwyn Street. Combined, the site is approximately 146ha and 1200 residential erven are proposed.

It is proposed that the property be rezoned and subdivided for the development of serviced low cost housing including associated infrastructure. It is required due to the demand for serviced low cost housing and to provide housing for residents of Keimoes affected and displaced by flooding of the Orange River.

Application for exemption: The applicant is intending to apply for exemption from Regulation 10(2)(d) of Government Notice No. R543, which states that the applicant must within 12 days of the date of the decision, place a notice in the same newspaper(s) used for the placing of advertisements as part of the public participation process, informing Interested and Affected Parties of the decision, where the decision can be accessed and the right to appeal. Registered I&AP's will be notified of the decision by post and/or preferred method of communication.

Public Participation: Interested and Affected Parties (I&APs) are hereby notified of the application and invited to register (in writing) and/or provide initial comments and identify any issues, concerns or opportunities relating to this project to the contact details provided below, on or before 25 January 2013. In order to register or submit comment, I&APs should refer to the project name and DEA reference number above, and provide their name, address & contact details (*indicating your preferred method of notification*) and an indication of any direct business, financial, personal, or other interest which they have in the application. Please note that future correspondence will only be sent to registered Interested and Affected Parties. You are also requested to pass this information to any person you feel should be notified.



P.O.Box 5367
HELDERBERG 7135
Fax: (086) 512 0154
Tel: (021)851 1616

e-mail: admin@enviroafrica.co.za

29 St James Street
Somerset West
VAT 4870170513
CK 97 46008/23

EnviroAfrica

Environmental Planning and Impact Assessment Consultants
Omgewingsbeplanning en Impakbeoordeling Konsultante

28 November 2012

Kallgarieb Municipality
PO Box 8
Kelmoes
8860

Att: Mr van Wyk

NEMAA BASIC ASSESSMENT PUBLIC PARTICIPATION PROCESS

PROPOSED LOW COST HOUSING, KEIMOOES, KAI GARIB MUNICIPALITY, NORTHERN CAPE
DEPARTMENT OF ENVIRONMENTAL AFFAIRS (DEA) REF NO: NCEIA/SIY/KAI/KEI2/2012 (NCP/EIA/0000181/2012)

Notice is hereby given of the public participation process in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended ("NEMA"), Environmental Impact Assessment Regulations 2010.

The proposed low cost housing development and associated infrastructure includes the below activities listed in terms of the NEMA EIA Regulations 2010. EnviroAfrica cc has been appointed by Kai IGarib Municipality, to undertake the **Environmental Impact Assessments** for the proposed project.

Application for environmental authorization to undertake the following activities:

Government Notice R544 (Listing Notice 1): Activity No. 11, 18, and 22

Government Notice R545 (Listing Notice 2): Activity No. 15

Government Notice R546 (Listing Notice 3): Activity No. 14

Application has been made to the Competent Authority to follow a Basic Assessment process, instead of a Scoping and Environmental Impact Report.

Project Description & Location: The application is located over two sites located on Erf 666, Kelmoes. Site 1 - Off Protea Avenue and Blesbok Avenue, Site 2 - Off Alwyn Street. Combined, the site is approximately 146ha and 1200 residential erven are proposed.

It is proposed that the property be rezoned and subdivided for the development of serviced low cost housing including associated infrastructure. It is required due to the demand for serviced low cost housing and to provide housing for residents of Kelmoes affected and displaced by flooding of the Orange River.

Application for exemption: The applicant is intending to apply for exemption from Regulation 10(2)(d) of Government Notice No. R543, which states that the applicant must within 12 days of the date of the decision, place a notice in the same newspaper(s) used for the placing of advertisements as part of the public participation process, informing Interested and Affected Parties of the decision, where the decision can be accessed and the right to appeal. Registered I&AP's will be notified of the decision by post and/or preferred method of communication.

Public Participation: Interested and Affected Parties (I&APs) are hereby notified of the application and invited to register (in writing) and/or provide initial comments and identify any issues, concerns or opportunities relating to this project to the contact details provided below, on or before 25 January 2013. In order to register or submit comment, I&APs should refer to the project name and DEA reference number above, and provide their name, address & contact details (*indicating your preferred method of notification*) and an indication of any direct business, financial, personal, or other interest which they have in the application. Please note that future correspondence will only be sent to registered Interested and Affected Parties. You are also requested to pass this information to any person you feel should be notified.



P.O.Box 5367
HELDERBERG 7135
Fax: (086) 512 0154
Tel: (021)851 1616

e-mail: admin@enviroafrica.co.za

28 St James Street
Somerset West
VAT 4870170513
CK 97 46008/23

EnviroAfrica

Environmental Planning and Impact Assessment Consultants
Omgewingsbeplanning en Impakbeoordeling Konsultante

28 November 2012

Northern Cape Department of Agriculture & Land Reform
Private Bag X5018
Kimberley
8300

Att: Mr Wonders Mothibi

NEMAA BASIC ASSESSMENT PUBLIC PARTICIPATION PROCESS

PROPOSED LOW COST HOUSING, KEIMOES, KAI GARIB MUNICIPALITY, NORTHERN CAPE
DEPARTMENT OF ENVIRONMENTAL AFFAIRS (DEA) REF NO: NC/EIA/SIY/KAI/KEI2/2012 (NCP/EIA/0000181/2012)

Notice is hereby given of the public participation process in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended ("NEMA"), Environmental Impact Assessment Regulations 2010.

The proposed low cost housing development and associated infrastructure includes the below activities listed in terms of the NEMA EIA Regulations 2010. EnviroAfrica cc has been appointed by Kai !Garib Municipality, to undertake the **Environmental Impact Assessments** for the proposed project.

Application for environmental authorization to undertake the following activities:

Government Notice R544 (Listing Notice 1): Activity No. 11, 18, and 22

Government Notice R545 (Listing Notice 2): Activity No. 15

Government Notice R546 (Listing Notice 3): Activity No. 14

Application has been made to the Competent Authority to follow a Basic Assessment process, instead of a Scoping and Environmental Impact Report.

Project Description & Location: The application is located over two sites located on Erf 666, Keimoes. Site 1 - Off Protea Avenue and Blesbok Avenue, Site 2 - Off Alwyn Street. Combined, the site is approximately 146ha and 1200 residential erven are proposed.

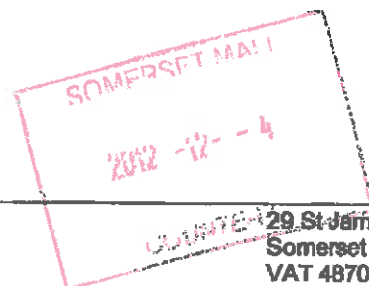
It is proposed that the property be rezoned and subdivided for the development of serviced low cost housing including associated infrastructure. It is required due to the demand for serviced low cost housing and to provide housing for residents of Keimoes affected and displaced by flooding of the Orange River.

Application for exemption: The applicant is intending to apply for exemption from Regulation 10(2)(d) of Government Notice No. R543, which states that the applicant must within 12 days of the date of the decision, place a notice in the same newspaper(s) used for the placing of advertisements as part of the public participation process, informing Interested and Affected Parties of the decision, where the decision can be accessed and the right to appeal. Registered I&AP's will be notified of the decision by post and/or preferred method of communication.

Public Participation: Interested and Affected Parties (I&APs) are hereby notified of the application and invited to register (in writing) and/or provide initial comments and identify any issues, concerns or opportunities relating to this project to the contact details provided below, on or before 25 January 2013. In order to register or submit comment, I&APs should refer to the project name and DEA reference number above, and provide their name, address & contact details (*indicating your preferred method of notification*) and an indication of any direct business, financial, personal, or other interest which they have in the application. Please note that future correspondence will only be sent to registered Interested and Affected Parties. You are also requested to pass this information to any person you feel should be notified.

P.O.Box 5367
HELDERBERG 7135
Fax: (086) 512 0154
Tel: (021)851 1616

e-mail: admin@enviroafrica.co.za



29 St James Street
Somerset West
VAT 4870170513
CK 97 46008/23

EnviroAfrica

Environmental Planning and Impact Assessment Consultants
Omgewingsbeplanning en Impakbeoordeling Konsultante

28 November 2012

Kaigariëb Municipality
PO Box 8
Keimoes
8860

Att: Ms Brenda Bock

NEMAA BASIC ASSESSMENT PUBLIC PARTICIPATION PROCESS

PROPOSED LOW COST HOUSING, KEIMOOES, KAI GARIB MUNICIPALITY, NORTHERN CAPE

DEPARTMENT OF ENVIRONMENTAL AFFAIRS (DEA) REF NO: NC/EIA/SIY/KAI/KEI2/2012 (NCP/EIA/0000181/2012)

Notice is hereby given of the public participation process in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended ("NEMA"), Environmental Impact Assessment Regulations 2010.

The proposed low cost housing development and associated infrastructure includes the below activities listed in terms of the NEMA EIA Regulations 2010. EnviroAfrica cc has been appointed by Kai !Garib Municipality, to undertake the **Environmental Impact Assessments** for the proposed project.

Application for environmental authorization to undertake the following activities:

Government Notice R544 (Listing Notice 1): Activity No. 11, 18, and 22

Government Notice R545 (Listing Notice 2): Activity No. 15

Government Notice R548 (Listing Notice 3): Activity No. 14

Application has been made to the Competent Authority to follow a Basic Assessment process. Instead of a Scoping and Environmental Impact Report.

Project Description & Location: The application is located over two sites located on Erf 666, Keimoes. Site 1 - Off Protea Avenue and Blesbok Avenue, Site 2 - Off Alwyn Street. Combined, the site is approximately 146ha and 1200 residential erven are proposed.

It is proposed that the property be rezoned and subdivided for the development of serviced low cost housing including associated infrastructure. It is required due to the demand for serviced low cost housing and to provide housing for residents of Keimoes affected and displaced by flooding of the Orange River.

Application for exemption: The applicant is intending to apply for exemption from Regulation 10(2)(d) of Government Notice No. R543, which states that the applicant must within 12 days of the date of the decision, place a notice in the same newspaper(s) used for the placing of advertisements as part of the public participation process, informing Interested and Affected Parties of the decision, where the decision can be accessed and the right to appeal. Registered I&AP's will be notified of the decision by post and/or preferred method of communication.

Public Participation: Interested and Affected Parties (I&APs) are hereby notified of the application and invited to register (in writing) and/or provide initial comments and identify any issues, concerns or opportunities relating to this project to the contact details provided below, on or before 25 January 2013. In order to register or submit comment, I&APs should refer to the project name and DEA reference number above, and provide their name, address & contact details (*indicating your preferred method of notification*) and an indication of any direct business, financial, personal, or other interest which they have in the application. Please note that future correspondence will only be sent to registered Interested and Affected Parties. You are also requested to pass this information to any person you feel should be notified.

P.O.Box 5367
HELDERBERG 7135
Fax: (086) 512 0154
Tel: (021)851 1616

e-mail: admin@enviroafrica.co.za

SOMERSET MAIL
2012-12-4
COUNTY
29 St James Street
Somerset West
VAT 4870170513
CK 97 48008/23

EnviroAfrica

Environmental Planning and Impact Assessment Consultants
Omgewingsbeplanning en Impakbeoordeling Konsultante

28 November 2012

Kaigarib Municipality
PO Box 8
Keimoes
8860

Att: Ms De Bruin

NEMAA BASIC ASSESSMENT PUBLIC PARTICIPATION PROCESS

PROPOSED LOW COST HOUSING, KEIMOES, KAI GARIB MUNICIPALITY, NORTHERN CAPE

DEPARTMENT OF ENVIRONMENTAL AFFAIRS (DEA) REF NO: NC/EIA/SIY/KAI/KEI2/2012 (NCP/EIA/0000181/2012)

Notice is hereby given of the public participation process in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended ("NEMA"), Environmental Impact Assessment Regulations 2010.

The proposed low cost housing development and associated infrastructure includes the below activities listed in terms of the NEMA EIA Regulations 2010. EnviroAfrica cc has been appointed by Kai IGarib Municipality, to undertake the **Environmental Impact Assessments** for the proposed project.

Application for environmental authorization to undertake the following activities:

Government Notice R544 (Listing Notice 1): Activity No. 11, 18, and 22

Government Notice R545 (Listing Notice 2): Activity No. 15

Government Notice R546 (Listing Notice 3): Activity No. 14

Application has been made to the Competent Authority to follow a Basic Assessment process, instead of a Scoping and Environmental Impact Report.

Project Description & Location: The application is located over two sites located on Erf 666, Keimoes. Site 1 - Off Protea Avenue and Blesbok Avenue, Site 2 - Off Alwyn Street. Combined, the site is approximately 146ha and 1200 residential erven are proposed.

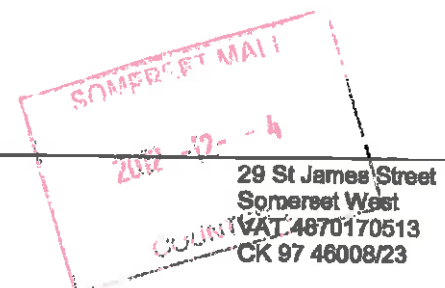
It is proposed that the property be rezoned and subdivided for the development of serviced low cost housing including associated infrastructure. It is required due to the demand for serviced low cost housing and to provide housing for residents of Keimoes affected and displaced by flooding of the Orange River.

Application for exemption: The applicant is intending to apply for exemption from Regulation 10(2)(d) of Government Notice No. R543, which states that the applicant must within 12 days of the date of the decision, place a notice in the same newspaper(s) used for the placing of advertisements as part of the public participation process, informing Interested and Affected Parties of the decision, where the decision can be accessed and the right to appeal. Registered I&AP's will be notified of the decision by post and/or preferred method of communication.

Public Participation: Interested and Affected Parties (I&APs) are hereby notified of the application and invited to register (in writing) and/or provide initial comments and identify any issues, concerns or opportunities relating to this project to the contact details provided below, on or before 25 January 2013. In order to register or submit comment, I&APs should refer to the project name and DEA reference number above, and provide their name, address & contact details (*indicating your preferred method of notification*) and an indication of any direct business, financial, personal, or other interest which they have in the application. Please note that future correspondence will only be sent to registered Interested and Affected Parties. You are also requested to pass this information to any person you feel should be notified.

P.O.Box 5387
HELDERBERG 7135
Fax: (086) 512 0154
Tel: (021)851 1616

e-mail: admin@enviroafrica.co.za



EnviroAfrica

Environmental Planning and Impact Assessment Consultants
Omgewingsbeplanning en Impakbeoordeling Konsultante

28 November 2012

Kai!garieb Municipality
PO Box 8
Keimoes
8860

Att: Ms Du Plessis

NEMAA BASIC ASSESSMENT PUBLIC PARTICIPATION PROCESS

PROPOSED LOW COST HOUSING, KEIMOOES, KAI GARIB MUNICIPALITY, NORTHERN CAPE
DEPARTMENT OF ENVIRONMENTAL AFFAIRS (DEA) REF NO: NC/EIA/SIY/KAI/KEI2/2012 (NCP/EIA/0000181/2012)

Notice is hereby given of the public participation process in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended ("NEMA"), Environmental Impact Assessment Regulations 2010.

The proposed low cost housing development and associated infrastructure includes the below activities listed in terms of the NEMA EIA Regulations 2010. EnviroAfrica cc has been appointed by Kai !Garib Municipality, to undertake the Environmental Impact Assessments for the proposed project.

Application for environmental authorization to undertake the following activities:

Government Notice R544 (Listing Notice 1): Activity No. 11, 18, and 22

Government Notice R545 (Listing Notice 2): Activity No. 15

Government Notice R546 (Listing Notice 3): Activity No. 14

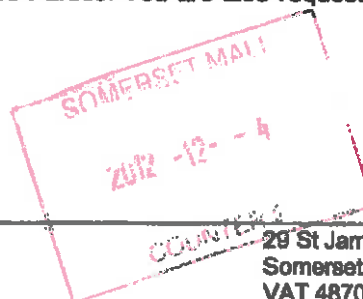
Application has been made to the Competent Authority to follow a Basic Assessment process, instead of a Scoping and Environmental Impact Report.

Project Description & Location: The application is located over two sites located on Erf 666, Keimoes. Site 1 - Off Protea Avenue and Blesbok Avenue, Site 2 - Off Alwyn Street. Combined, the site is approximately 146ha and 1200 residential erven are proposed.

It is proposed that the property be rezoned and subdivided for the development of serviced low cost housing including associated infrastructure. It is required due to the demand for serviced low cost housing and to provide housing for residents of Keimoes affected and displaced by flooding of the Orange River.

Application for exemption: The applicant is intending to apply for exemption from Regulation 10(2)(d) of Government Notice No. R543, which states that the applicant must within 12 days of the date of the decision, place a notice in the same newspaper(s) used for the placing of advertisements as part of the public participation process, informing Interested and Affected Parties of the decision, where the decision can be accessed and the right to appeal. Registered I&AP's will be notified of the decision by post and/or preferred method of communication.

Public Participation: Interested and Affected Parties (I&APs) are hereby notified of the application and invited to register (in writing) and/or provide initial comments and identify any issues, concerns or opportunities relating to this project to the contact details provided below, on or before 25 January 2013. In order to register or submit comment, I&APs should refer to the project name and DEA reference number above, and provide their name, address & contact details (*indicating your preferred method of notification*) and an indication of any direct business, financial, personal, or other interest which they have in the application. Please note that future correspondence will only be sent to registered Interested and Affected Parties. You are also requested to pass this information to any person you feel should be notified.



P.O.Box 5367
HELDERBERG 7135
Fax: (086) 512 0154
Tel: (021)851 1616

e-mail: admin@enviroafrica.co.za

29 St James Street
Somerset West
VAT 4870170513
CK 97 46008/23

EnviroAfrica

Environmental Planning and Impact Assessment Consultants
Omgewingsbeplanning en Impakbeoordeling Konsultante

28 November 2012

Kaigariieb Municipality
PO Box 8
Keimoes
6860

Att: Ms Fienles

NEMAA BASIC ASSESSMENT PUBLIC PARTICIPATION PROCESS

PROPOSED LOW COST HOUSING, KEIMOES, KAI GARIB MUNICIPALITY, NORTHERN CAPE

DEPARTMENT OF ENVIRONMENTAL AFFAIRS (DEA) REF NO: NC/EIA/SIY/KAI/KEI2/2012 (NCP/EIA/0000181/2012)

Notice is hereby given of the public participation process in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended ("NEMA"), Environmental Impact Assessment Regulations 2010.

The proposed low cost housing development and associated infrastructure includes the below activities listed in terms of the NEMA EIA Regulations 2010. EnviroAfrica cc has been appointed by Kai IGarib Municipality, to undertake the Environmental Impact Assessments for the proposed project.

Application for environmental authorization to undertake the following activities:

Government Notice R544 (Listing Notice 1): Activity No. 11, 18, and 22

Government Notice R545 (Listing Notice 2): Activity No. 15

Government Notice R546 (Listing Notice 3): Activity No. 14

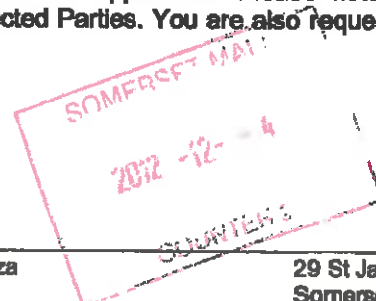
Application has been made to the Competent Authority to follow a Basic Assessment process, instead of a Scoping and Environmental Impact Report.

Project Description & Location: The application is located over two sites located on Erf 686, Keimoes. Site 1 - Off Protea Avenue and Blesbok Avenue, Site 2 - Off Alwyn Street. Combined, the site is approximately 146ha and 1200 residential erven are proposed.

It is proposed that the property be rezoned and subdivided for the development of serviced low cost housing including associated infrastructure. It is required due to the demand for serviced low cost housing and to provide housing for residents of Keimoes affected and displaced by flooding of the Orange River.

Application for exemption: The applicant is intending to apply for exemption from Regulation 10(2)(d) of Government Notice No. R543, which states that the applicant must within 12 days of the date of the decision, place a notice in the same newspaper(s) used for the placing of advertisements as part of the public participation process, informing Interested and Affected Parties of the decision, where the decision can be accessed and the right to appeal. Registered I&AP's will be notified of the decision by post and/or preferred method of communication.

Public Participation: Interested and Affected Parties (I&APs) are hereby notified of the application and invited to register (in writing) and/or provide initial comments and identify any issues, concerns or opportunities relating to this project to the contact details provided below, on or before 25 January 2013. In order to register or submit comment, I&APs should refer to the project name and DEA reference number above, and provide their name, address & contact details (*indicating your preferred method of notification*) and an indication of any direct business, financial, personal, or other interest which they have in the application. Please note that future correspondence will only be sent to registered Interested and Affected Parties. You are also requested to pass this information to any person you feel should be notified.



P.O.Box 5367
HELDERBERG 7135
Fax: (086) 512 0154
Tel: (021)851 1616

e-mail: admin@enviroafrica.co.za

29 St James Street
Somerset West
VAT 4870170513
CK 97 46008/23

EnviroAfrica

Environmental Planning and Impact Assessment Consultants
Ongewingsbeplanning en Impakbeoordeling Konsultante

28 November 2012

Kai!garieb Municipality
PO Box 8
Keimoes
8860

Att: Ms Titus

NEMAA BASIC ASSESSMENT PUBLIC PARTICIPATION PROCESS

PROPOSED LOW COST HOUSING, KEIMOES, KAI GARIB MUNICIPALITY, NORTHERN CAPE
DEPARTMENT OF ENVIRONMENTAL AFFAIRS (DEA) REF NO: NC/EIA/SIY/KAI/KEI2/2012 (NCP/EIA/0000181/2012)

Notice is hereby given of the public participation process in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended ("NEMA"), Environmental Impact Assessment Regulations 2010.

The proposed low cost housing development and associated infrastructure includes the below activities listed in terms of the NEMA EIA Regulations 2010. EnviroAfrica cc has been appointed by Kai !Garib Municipality, to undertake the Environmental Impact Assessments for the proposed project.

Application for environmental authorization to undertake the following activities:

Government Notice R544 (Listing Notice 1): Activity No. 11, 18, and 22

Government Notice R545 (Listing Notice 2): Activity No. 15

Government Notice R546 (Listing Notice 3): Activity No. 14

Application has been made to the Competent Authority to follow a Basic Assessment process, instead of a Scoping and Environmental Impact Report.

Project Description & Location: The application is located over two sites located on Erf 666, Keimoes. Site 1 - Off Protea Avenue and Blesbok Avenue, Site 2 - Off Alwyn Street. Combined, the site is approximately 146ha and 1200 residential erven are proposed.

It is proposed that the property be rezoned and subdivided for the development of serviced low cost housing including associated infrastructure. It is required due to the demand for serviced low cost housing and to provide housing for residents of Keimoes affected and displaced by flooding of the Orange River.

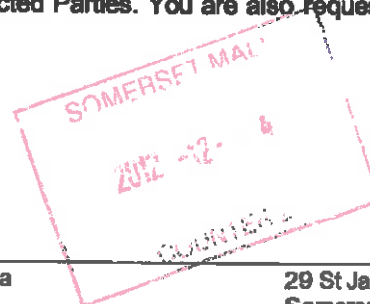
Application for exemption: The applicant is intending to apply for exemption from Regulation 10(2)(d) of Government Notice No. R543, which states that the applicant must within 12 days of the date of the decision, place a notice in the same newspaper(s) used for the placing of advertisements as part of the public participation process, informing Interested and Affected Parties of the decision, where the decision can be accessed and the right to appeal. Registered I&AP's will be notified of the decision by post and/or preferred method of communication.

Public Participation: Interested and Affected Parties (I&APs) are hereby notified of the application and invited to register (in writing) and/or provide initial comments and identify any issues, concerns or opportunities relating to this project to the contact details provided below, on or before 25 January 2013. In order to register or submit comment, I&APs should refer to the project name and DEA reference number above, and provide their name, address & contact details (*indicating your preferred method of notification*) and an indication of any direct business, financial, personal, or other interest which they have in the application. Please note that future correspondence will only be sent to registered Interested and Affected Parties. You are also requested to pass this information to any person you feel should be notified.

P.O.Box 5367
HELDERBERG 7135
Fax: (086) 512 0154
Tel: (021)851 1816

e-mail: admin@enviroafrica.co.za

29 St James Street
Somerset West
VAT 4870170513
CK 97 46008/23



EnviroAfrica

Environmental Planning and Impact Assessment Consultants
Omgewingsbeplanning en Impakbeoordeling Konsultante

28 November 2012

Kailariëb Municipality
PO Box 8
Keimoes
8860

Att: Ms van der Westhulzen

NEMAA BASIC ASSESSMENT PUBLIC PARTICIPATION PROCESS

PROPOSED LOW COST HOUSING, KEIMOES, KAI! GARIB MUNICIPALITY, NORTHERN CAPE
DEPARTMENT OF ENVIRONMENTAL AFFAIRS (DEA) REF NO: NC/EIA/SIY/KAI/KEI2/2012 (NCP/EIA/0000181/2012)

Notice is hereby given of the public participation process in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended ("NEMA"), Environmental Impact Assessment Regulations 2010.

The proposed low cost housing development and associated infrastructure includes the below activities listed in terms of the NEMA EIA Regulations 2010. EnviroAfrica cc has been appointed by Kai !Garib Municipality, to undertake the Environmental Impact Assessments for the proposed project.

Application for environmental authorization to undertake the following activities:

Government Notice R544 (Listing Notice 1): Activity No. 11, 18, and 22

Government Notice R545 (Listing Notice 2): Activity No. 15

Government Notice R546 (Listing Notice 3): Activity No. 14

Application has been made to the Competent Authority to follow a Basic Assessment process, instead of a Scoping and Environmental Impact Report.

Project Description & Location: The application is located over two sites located on Erf 666, Keimoes. Site 1 - Off Protea Avenue and Blesbok Avenue, Site 2 - Off Alwyn Street. Combined, the site is approximately 146ha and 1200 residential erven are proposed.

It is proposed that the property be rezoned and subdivided for the development of serviced low cost housing including associated infrastructure. It is required due to the demand for serviced low cost housing and to provide housing for residents of Keimoes affected and displaced by flooding of the Orange River.

Application for exemption: The applicant is intending to apply for exemption from Regulation 10(2)(d) of Government Notice No. R543, which states that the applicant must within 12 days of the date of the decision, place a notice in the same newspaper(s) used for the placing of advertisements as part of the public participation process, informing Interested and Affected Parties of the decision, where the decision can be accessed and the right to appeal. Registered I&AP's will be notified of the decision by post and/or preferred method of communication.

Public Participation: Interested and Affected Parties (I&APs) are hereby notified of the application and invited to register (in writing) and/or provide initial comments and identify any issues, concerns or opportunities relating to this project to the contact details provided below, on or before 25 January 2013. In order to register or submit comment, I&APs should refer to the project name and DEA reference number above, and provide their name, address & contact details (*indicating your preferred method of notification*) and an indication of any direct business, financial, personal, or other interest which they have in the application. Please note that future correspondence will only be sent to registered Interested and Affected Parties. You are also requested to pass this information to any person you feel should be notified.

SOMERSSET MAIL
2012-12--4
COUNT 2

P.O.Box 5367
HELDERBERG 7135
Fax: (086) 512 0154
Tel: (021)851 1616

e-mail: admin@enviroafrica.co.za

29 St James Street
Somerset West
VAT 4870170513
CK 97 46008/23

EnviroAfrica

Environmental Planning and Impact Assessment Consultants
Omgewingsbeplanning en Impakbeoordeling Konsultante

28 November 2012

Siyanda District Municipality
Private Bad X8039
Upington
8800

Att: Mr D Ngxanga

NEMAA BASIC ASSESSMENT PUBLIC PARTICIPATION PROCESS

PROPOSED LOW COST HOUSING, KEIMOOES, KAI GARIB MUNICIPALITY, NORTHERN CAPE
DEPARTMENT OF ENVIRONMENTAL AFFAIRS (DEA) REF NO: NC/EIA/SIY/KAI/KEI2/2012 (NCP/EIA/0000181/2012)

Notice is hereby given of the public participation process in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended ("NEMA"), Environmental Impact Assessment Regulations 2010.

The proposed low cost housing development and associated infrastructure includes the below activities listed in terms of the NEMA EIA Regulations 2010. EnviroAfrica cc has been appointed by Kai Garib Municipality, to undertake the **Environmental Impact Assessments** for the proposed project.

Application for environmental authorization to undertake the following activities:

Government Notice R544 (Listing Notice 1): Activity No. 11, 18, and 22

Government Notice R545 (Listing Notice 2): Activity No. 15

Government Notice R546 (Listing Notice 3): Activity No. 14

Application has been made to the Competent Authority to follow a Basic Assessment process, instead of a Scoping and Environmental Impact Report.

Project Description & Location: The application is located over two sites located on Erf 666, Keimoes. Site 1 - Off Protea Avenue and Blesbok Avenue, Site 2 - Off Alwyn Street. Combined, the site is approximately 146ha and 1200 residential erven are proposed.

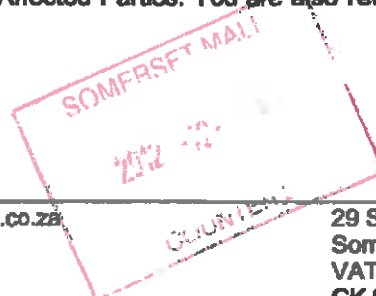
It is proposed that the property be rezoned and subdivided for the development of serviced low cost housing including associated infrastructure. It is required due to the demand for serviced low cost housing and to provide housing for residents of Keimoes affected and displaced by flooding of the Orange River.

Application for exemption: The applicant is intending to apply for exemption from Regulation 10(2)(d) of Government Notice No. R543, which states that the applicant must within 12 days of the date of the decision, place a notice in the same newspaper(s) used for the placing of advertisements as part of the public participation process, informing Interested and Affected Parties of the decision, where the decision can be accessed and the right to appeal. Registered I&AP's will be notified of the decision by post and/or preferred method of communication.

Public Participation: Interested and Affected Parties (I&APs) are hereby notified of the application and invited to register (in writing) and/or provide initial comments and identify any issues, concerns or opportunities relating to this project to the contact details provided below, **on or before 25 January 2013**. In order to register or submit comment, I&APs should refer to the project name and DEA reference number above, and provide their name, address & contact details (*indicating your preferred method of notification*) and an indication of any direct business, financial, personal, or other interest which they have in the application. Please note that future correspondence will only be sent to registered Interested and Affected Parties. You are also requested to pass this information to any person you feel should be notified.

P.O.Box 5367
HELDERBERG 7135
Fax: (086) 512 0154
Tel: (021)851 1616

e-mail: admin@enviroafrica.co.za



29 St James Street
Somerset West
VAT 4870170513
CK 97 46008/23

EnviroAfrica

Environmental Planning and Impact Assessment Consultants
Omgewingsbeplanning en Impakbeoordeling Konsultante

28 November 2012

The Department of Environment and Nature Conservation
PO Box 231
Upington
8800

At: Mr Yaphi

NEMAA BASIC ASSESSMENT PUBLIC PARTICIPATION PROCESS

PROPOSED LOW COST HOUSING, KEIMOES, KAI GARIB MUNICIPALITY, NORTHERN CAPE
DEPARTMENT OF ENVIRONMENTAL AFFAIRS (DEA) REF NO: NC/EIA/SIY/KAI/KEI2/2012 (NCP/EIA/0000181/2012)

Notice is hereby given of the public participation process in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended ("NEMA"), Environmental Impact Assessment Regulations 2010.

The proposed low cost housing development and associated infrastructure includes the below activities listed in terms of the NEMA EIA Regulations 2010. EnviroAfrica cc has been appointed by Kai !Garib Municipality, to undertake the **Environmental Impact Assessments** for the proposed project.

Application for environmental authorization to undertake the following activities:

Government Notice R544 (Listing Notice 1): Activity No. 11, 18, and 22

Government Notice R545 (Listing Notice 2): Activity No. 15

Government Notice R546 (Listing Notice 3): Activity No. 14

Application has been made to the Competent Authority to follow a Basic Assessment process, instead of a Scoping and Environmental Impact Report.

Project Description & Location: The application is located over two sites located on Erf 666, Kelmoes. Site 1 - Off Protea Avenue and Blesbok Avenue, Site 2 - Off Alwyn Street. Combined, the site is approximately 146ha and 1200 residential erven are proposed.

It is proposed that the property be rezoned and subdivided for the development of serviced low cost housing including associated infrastructure. It is required due to the demand for serviced low cost housing and to provide housing for residents of Kelmoes affected and displaced by flooding of the Orange River.

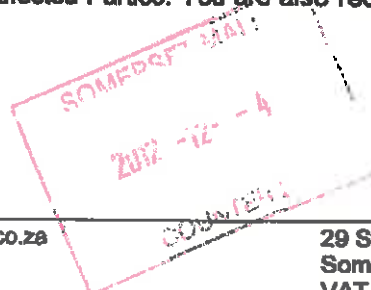
Application for exemption: The applicant is intending to apply for exemption from Regulation 10(2)(d) of Government Notice No. R543, which states that the applicant must within 12 days of the date of the decision, place a notice in the same newspaper(s) used for the placing of advertisements as part of the public participation process, informing interested and affected parties of the decision, where the decision can be accessed and the right to appeal. Registered I&AP's will be notified of the decision by post and/or preferred method of communication.

Public Participation: Interested and affected parties (I&APs) are hereby notified of the application and invited to register (in writing) and/or provide initial comments and identify any issues, concerns or opportunities relating to this project to the contact details provided below, **on or before 25 January 2013**. In order to register or submit comment, I&APs should refer to the project name and DEA reference number above, and provide their name, address & contact details (*indicating your preferred method of notification*) and an indication of any direct business, financial, personal, or other interest which they have in the application. Please note that future correspondence will only be sent to registered interested and affected parties. You are also requested to pass this information to any person you feel should be notified.

P.O.Box 5367
HELDERBERG 7135
Fax: (088) 512 0154
Tel: (021)851 1616

e-mail: admin@enviroafrica.co.za

29 St James Street
Somerset West
VAT 4870170513
CK 97 46008/23



EnviroAfrica

Environmental Planning and Impact Assessment Consultants
Omgewingsbeplanning en Impakbeoordeling Konsultante

28 November 2012

The Department of Water Affairs-Northern Cape
Private Bag X6101
Kimberley
8300

Att: Mr LJ Saunders

NEMAA BASIC ASSESSMENT PUBLIC PARTICIPATION PROCESS

PROPOSED LOW COST HOUSING, KEIMOES, KAI I GARIB MUNICIPALITY, NORTHERN CAPE
DEPARTMENT OF ENVIRONMENTAL AFFAIRS (DEA) REF NO: NC/EIA/SIY/KAI/KEI2/2012 (NCP/EIA/0000181/2012)

Notice is hereby given of the public participation process in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended ("NEMA"), Environmental Impact Assessment Regulations 2010.

The proposed low cost housing development and associated infrastructure includes the below activities listed in terms of the NEMA EIA Regulations 2010. EnviroAfrica cc has been appointed by Kai I Garib Municipality, to undertake the Environmental Impact Assessments for the proposed project.

Application for environmental authorization to undertake the following activities:

Government Notice R544 (Listing Notice 1): Activity No. 11, 18, and 22

Government Notice R545 (Listing Notice 2): Activity No. 15

Government Notice R546 (Listing Notice 3): Activity No. 14

Application has been made to the Competent Authority to follow a Basic Assessment process, instead of a Scoping and Environmental Impact Report.

Project Description & Location: The application is located over two sites located on Erf 666, Keimoes. Site 1 - Off Protea Avenue and Blesbok Avenue, Site 2 - Off Alwyn Street. Combined, the site is approximately 146ha and 1200 residential erven are proposed.

It is proposed that the property be rezoned and subdivided for the development of serviced low cost housing including associated infrastructure. It is required due to the demand for serviced low cost housing and to provide housing for residents of Keimoes affected and displaced by flooding of the Orange River.

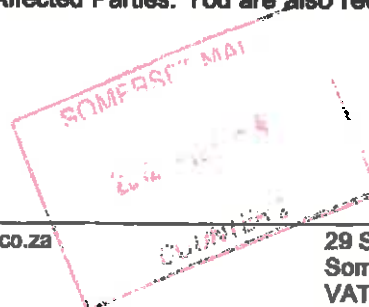
Application for exemption: The applicant is intending to apply for exemption from Regulation 10(2)(d) of Government Notice No. R543, which states that the applicant must within 12 days of the date of the decision, place a notice in the same newspaper(s) used for the placing of advertisements as part of the public participation process, informing Interested and Affected Parties of the decision, where the decision can be accessed and the right to appeal. Registered I&AP's will be notified of the decision by post and/or preferred method of communication.

Public Participation: Interested and Affected Parties (I&APs) are hereby notified of the application and invited to register (in writing) and/or provide initial comments and identify any issues, concerns or opportunities relating to this project to the contact details provided below, on or before 25 January 2013. In order to register or submit comment, I&APs should refer to the project name and DEA reference number above, and provide their name, address & contact details (*indicating your preferred method of notification*) and an indication of any direct business, financial, personal, or other interest which they have in the application. Please note that future correspondence will only be sent to registered Interested and Affected Parties. You are also requested to pass this information to any person you feel should be notified.

P.O.Box 5387
HELDERBERG 7135
Fax: (088) 512 0154
Tel: (021)851 1616

e-mail: admin@enviroafrica.co.za

29 St James Street
Somerset West
VAT 4870170513
CK 97 46008/23



EnviroAfrica

Environmental Planning and Impact Assessment Consultants
Omgewingsbeplanning en Impakbeoordeling Konsultante

The Municipal Manager
Kai Garib Municipality
PO Box 8
Keimoes
8860

28 November 2012

Att: Mr Abraham Vosloo

NEMAA BASIC ASSESSMENT PUBLIC PARTICIPATION PROCESS

PROPOSED LOW COST HOUSING, KEIMOES, KAI GARIB MUNICIPALITY, NORTHERN CAPE
DEPARTMENT OF ENVIRONMENTAL AFFAIRS (DEA) REF NO: NC/EIA/SIY/KAI/KEI2/2012 (NCP/EIA/0000181/2012)

Notice is hereby given of the public participation process in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended ("NEMA"), Environmental Impact Assessment Regulations 2010.

The proposed low cost housing development and associated infrastructure includes the below activities listed in terms of the NEMA EIA Regulations 2010. EnviroAfrica cc has been appointed by Kai !Garib Municipality, to undertake the **Environmental Impact Assessments** for the proposed project.

Application for environmental authorization to undertake the following activities:

Government Notice R544 (Listing Notice 1): Activity No. 11, 18, and 22

Government Notice R545 (Listing Notice 2): Activity No. 15

Government Notice R546 (Listing Notice 3): Activity No. 14

Application has been made to the Competent Authority to follow a Basic Assessment process, instead of a Scoping and Environmental Impact Report.

Project Description & Location: The application is located over two sites located on Erf 666, Keimoes. Site 1 - Off Protea Avenue and Blesbok Avenue, Site 2 - Off Alwyn Street. Combined, the site is approximately 146ha and 1200 residential erven are proposed.

It is proposed that the property be rezoned and subdivided for the development of serviced low cost housing including associated infrastructure. It is required due to the demand for serviced low cost housing and to provide housing for residents of Keimoes affected and displaced by flooding of the Orange River.

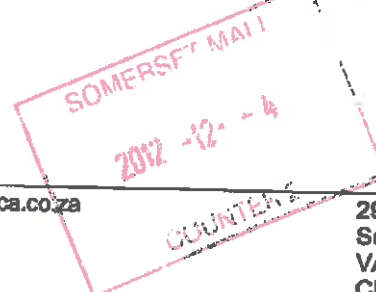
Application for exemption: The applicant is intending to apply for exemption from Regulation 10(2)(d) of Government Notice No. R543, which states that the applicant must within 12 days of the date of the decision, place a notice in the same newspaper(s) used for the placing of advertisements as part of the public participation process, informing interested and affected parties of the decision, where the decision can be accessed and the right to appeal. Registered I&AP's will be notified of the decision by post and/or preferred method of communication.

Public Participation: Interested and Affected Parties (I&APs) are hereby notified of the application and invited to register (in writing) and/or provide initial comments and identify any issues, concerns or opportunities relating to this project to the contact details provided below, on or before 25 January 2013. In order to register or submit comment, I&APs should refer to the project name and DEA reference number above, and provide their name, address & contact details (*indicating your preferred method of notification*) and an indication of any direct business, financial, personal, or other interest which they have in the application. Please note that future correspondence will only be sent to registered interested and affected parties. You are also requested to pass this information to any person you feel should be notified.

P.O.Box 5367
HELDERBERG 7135
Fax: (086) 512 0154
Tel: (021)851 1616

e-mail: admin@enviroafrica.co.za

29 St James Street
Somerset West
VAT 4870170513
CK 97 46008/23



EnviroAfrica

Environmental Planning and Impact Assessment Consultants
Omgewingsbeplanning en Impakbeoordeling Konsultante

28 November 2012

The Provincial Manager
SAHRA Northern Cape
PO Box 1930
Kimberley
8301

NEMAA BASIC ASSESSMENT PUBLIC PARTICIPATION PROCESS

PROPOSED LOW COST HOUSING, KEIMOES, KAI GARIB MUNICIPALITY, NORTHERN CAPE

DEPARTMENT OF ENVIRONMENTAL AFFAIRS (DEA) REF NO: NC/EIA/SIY/KAI/KEI2/2012 (NCP/EIA/0000181/2012)

Notice is hereby given of the public participation process in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended ("NEMA"), Environmental Impact Assessment Regulations 2010.

The proposed low cost housing development and associated infrastructure includes the below activities listed in terms of the NEMA EIA Regulations 2010. EnviroAfrica cc has been appointed by Kai IGarib Municipality, to undertake the **Environmental Impact Assessments** for the proposed project.

Application for environmental authorization to undertake the following activities:

Government Notice R544 (Listing Notice 1): Activity No. 11, 18, and 22

Government Notice R545 (Listing Notice 2): Activity No. 15

Government Notice R546 (Listing Notice 3): Activity No. 14

Application has been made to the Competent Authority to follow a Basic Assessment process, instead of a Scoping and Environmental Impact Report.

Project Description & Location: The application is located over two sites located on Erf 666, Keimoes. Site 1 - Off Protea Avenue and Blesbok Avenue, Site 2 - Off Alwyn Street. Combined, the site is approximately 148ha and 1200 residential erven are proposed.

It is proposed that the property be rezoned and subdivided for the development of serviced low cost housing including associated infrastructure. It is required due to the demand for serviced low cost housing and to provide housing for residents of Keimoes affected and displaced by flooding of the Orange River.

Application for exemption: The applicant is intending to apply for exemption from Regulation 10(2)(d) of Government Notice No. R543, which states that the applicant must within 12 days of the date of the decision, place a notice in the same newspaper(s) used for the placing of advertisements as part of the public participation process, informing Interested and Affected Parties of the decision, where the decision can be accessed and the right to appeal. Registered I&AP's will be notified of the decision by post and/or preferred method of communication.

Public Participation: Interested and Affected Parties (I&APs) are hereby notified of the application and invited to register (in writing) and/or provide initial comments and identify any issues, concerns or opportunities relating to this project to the contact details provided below, on or before 25 January 2013. In order to register or submit comment, I&APs should refer to the project name and DEA reference number above, and provide their name, address & contact details (*indicating your preferred method of notification*) and an indication of any direct business, financial, personal, or other interest which they have in the application. Please note that future correspondence will only be sent to registered Interested and Affected Parties. You are also requested to pass this information to any person you feel should be notified.

SOMERSET MAIL
2012-12-4
02:15:11

P.O.Box 5367
HELDERBERG 7136
Fax: (086) 512 0154
Tel: (021)851 1616

e-mail: admin@enviroafrica.co.za

29 St James Street
Somerset West
VAT 4870170513
CK 97 46008/23

EnviroAfrica

Environmental Planning and Impact Assessment Consultants
Omgewingsbeplanning en Impakbeoordeling Konsultante

28 November 2012

Department of Cooperative Governance and Human Settlements
Private Bag X5005
Kimberley
8300

Att: Ms Greta Apelgren-Narkedien

NEMAA BASIC ASSESSMENT PUBLIC PARTICIPATION PROCESS

PROPOSED LOW COST HOUSING, KEIMOES, KAI! GARIB MUNICIPALITY, NORTHERN CAPE

DEPARTMENT OF ENVIRONMENTAL AFFAIRS (DEA) REF NO: NC/EIA/SIY/KAI!/KEI2/2012 (NCP/EIA/0000181/2012)

Notice is hereby given of the public participation process in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended ("NEMA"), Environmental Impact Assessment Regulations 2010.

The proposed low cost housing development and associated infrastructure includes the below activities listed in terms of the NEMA EIA Regulations 2010. EnviroAfrica cc has been appointed by Kai !Garib Municipality, to undertake the **Environmental Impact Assessments** for the proposed project.

Application for environmental authorization to undertake the following activities:

Government Notice R544 (Listing Notice 1): Activity No. 11, 18, and 22

Government Notice R545 (Listing Notice 2): Activity No. 15

Government Notice R546 (Listing Notice 3): Activity No. 14

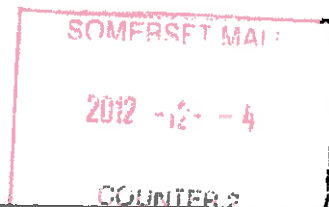
Application has been made to the Competent Authority to follow a Basic Assessment process, instead of a Scoping and Environmental Impact Report.

Project Description & Location: The application is located over two sites located on Erf 666, Keimoes. Site 1 - Off Protea Avenue and Blesbok Avenue, Site 2 - Off Alwyn Street. Combined, the site is approximately 146ha and 1200 residential erven are proposed.

It is proposed that the property be rezoned and subdivided for the development of serviced low cost housing including associated infrastructure. It is required due to the demand for serviced low cost housing and to provide housing for residents of Keimoes affected and displaced by flooding of the Orange River.

Application for exemption: The applicant is intending to apply for exemption from Regulation 10(2)(d) of Government Notice No. R543, which states that the applicant must within 12 days of the date of the decision, place a notice in the same newspaper(s) used for the placing of advertisements as part of the public participation process, informing Interested and Affected Parties of the decision, where the decision can be accessed and the right to appeal. Registered I&AP's will be notified of the decision by post and/or preferred method of communication.

Public Participation: Interested and Affected Parties (I&APs) are hereby notified of the application and invited to register (in writing) and/or provide initial comments and identify any issues, concerns or opportunities relating to this project to the contact details provided below, **on or before 25 January 2013**. In order to register or submit comment, I&APs should refer to the project name and DEA reference number above, and provide their name, address & contact details (*indicating your preferred method of notification*) and an indication of any direct business, financial, personal, or other interest which they have in the application. Please note that future correspondence will only be sent to registered Interested and Affected Parties. You are also requested to pass this information to any person you feel should be notified.



P.O.Box 5367
HELDERBERG 7135
Fax: (086) 512 0154
Tel: (021)851 1616

e-mail: admin@enviroafrica.co.za

29 St James Street
Somerset West
VAT 4870170513
CK 97 46008/23

EnviroAfrica

Environmental Planning and Impact Assessment Consultants
Omgewingsbeplanning en Impakbeoordeling Konsultante

28 November 2012

Department of Roads and Public Works
PO Box 3132
Kimberley
8301

Att: Mr K Nogwilli

NEMAA BASIC ASSESSMENT PUBLIC PARTICIPATION PROCESS

PROPOSED LOW COST HOUSING, KEIMOES, KAI! GARIB MUNICIPALITY, NORTHERN CAPE

DEPARTMENT OF ENVIRONMENTAL AFFAIRS (DEA) REF NO: NC/EIA/SIY/KAI/KEI2/2012 (NCP/EIA/0000181/2012)

Notice is hereby given of the public participation process in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended ("NEMA"), Environmental Impact Assessment Regulations 2010.

The proposed low cost housing development and associated infrastructure includes the below activities listed in terms of the NEMA EIA Regulations 2010. EnviroAfrica cc has been appointed by Kai !Garib Municipality, to undertake the **Environmental Impact Assessments** for the proposed project.

Application for environmental authorization to undertake the following activities:

Government Notice R544 (Listing Notice 1): Activity No. 11, 18, and 22

Government Notice R545 (Listing Notice 2): Activity No. 15

Government Notice R546 (Listing Notice 3): Activity No. 14

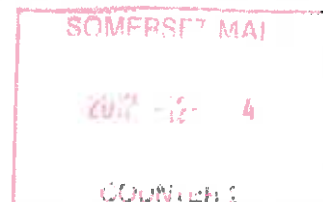
Application has been made to the Competent Authority to follow a Basic Assessment process, instead of a Scoping and Environmental Impact Report.

Project Description & Location: The application is located over two sites located on Erf 666, Keimoes. Site 1 - Off Protea Avenue and Blesbok Avenue, Site 2 - Off Alwyn Street. Combined, the site is approximately 146ha and 1200 residential erven are proposed.

It is proposed that the property be rezoned and subdivided for the development of serviced low cost housing including associated infrastructure. It is required due to the demand for serviced low cost housing and to provide housing for residents of Keimoes affected and displaced by flooding of the Orange River.

Application for exemption: The applicant is intending to apply for exemption from Regulation 10(2)(d) of Government Notice No. R543, which states that the applicant must within 12 days of the date of the decision, place a notice in the same newspaper(s) used for the placing of advertisements as part of the public participation process, informing Interested and Affected Parties of the decision, where the decision can be accessed and the right to appeal. Registered I&AP's will be notified of the decision by post and/or preferred method of communication.

Public Participation: Interested and Affected Parties (I&APs) are hereby notified of the application and invited to register (in writing) and/or provide initial comments and identify any issues, concerns or opportunities relating to this project to the contact details provided below, on or before 25 January 2013. In order to register or submit comment, I&APs should refer to the project name and DEA reference number above, and provide their name, address & contact details (*indicating your preferred method of notification*) and an indication of any direct business, financial, personal, or other interest which they have in the application. Please note that future correspondence will only be sent to registered interested and Affected Parties. You are also requested to pass this information to any person you feel should be notified.



P.O.Box 5367
HELDERBERG 7135
Fax: (086) 512 0154
Tel: (021)851 1616

e-mail: admin@enviroafrica.co.za

29 St James Street
Somerset West
VAT 4870170513
CK 97 46008/23

EnviroAfrica

Environmental Planning and Impact Assessment Consultants
Omgewingsbeplanning en Impakbeoordeling Konsultante

28 November 2012

Kai!garieb Municipality
PO Box 8
Keimoes
8860

Att: Mr Klim

NEMAA BASIC ASSESSMENT PUBLIC PARTICIPATION PROCESS

PROPOSED LOW COST HOUSING, KEIMOES, KAI GARIB MUNICIPALITY, NORTHERN CAPE

DEPARTMENT OF ENVIRONMENTAL AFFAIRS (DEA) REF NO: NC/EIA/SIY/KAI/KEI2/2012 (NCP/EIA/0000181/2012)

Notice is hereby given of the public participation process in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended ("NEMA"), Environmental Impact Assessment Regulations 2010.

The proposed low cost housing development and associated infrastructure includes the below activities listed in terms of the NEMA EIA Regulations 2010. EnviroAfrica cc has been appointed by Kai I Garib Municipality, to undertake the **Environmental Impact Assessments** for the proposed project.

Application for environmental authorization to undertake the following activities:

Government Notice R544 (Listing Notice 1): Activity No. 11, 18, and 22

Government Notice R545 (Listing Notice 2): Activity No. 15

Government Notice R546 (Listing Notice 3): Activity No. 14

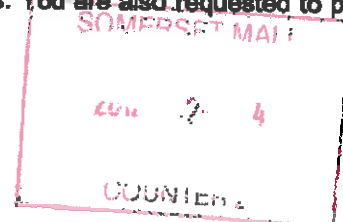
Application has been made to the Competent Authority to follow a Basic Assessment process, instead of a Scoping and Environmental Impact Report.

Project Description & Location: The application is located over two sites located on Erf 666, Keimoes. Site 1 - Off Protea Avenue and Blesbok Avenue, Site 2 - Off Alwyn Street. Combined, the site is approximately 146ha and 1200 residential erven are proposed.

It is proposed that the property be rezoned and subdivided for the development of serviced low cost housing including associated infrastructure. It is required due to the demand for serviced low cost housing and to provide housing for residents of Keimoes affected and displaced by flooding of the Orange River.

Application for exemption: The applicant is intending to apply for exemption from Regulation 10(2)(d) of Government Notice No. R543, which states that the applicant must within 12 days of the date of the decision, place a notice in the same newspaper(s) used for the placing of advertisements as part of the public participation process, informing Interested and Affected Parties of the decision, where the decision can be accessed and the right to appeal. Registered I&AP's will be notified of the decision by post and/or preferred method of communication.

Public Participation: Interested and Affected Parties (I&APs) are hereby notified of the application and invited to register (in writing) and/or provide initial comments and identify any issues, concerns or opportunities relating to this project to the contact details provided below, on or before 25 January 2013. In order to register or submit comment, I&APs should refer to the project name and DEA reference number above, and provide their name, address & contact details (*indicating your preferred method of notification*) and an indication of any direct business, financial, personal, or other interest which they have in the application. Please note that future correspondence will only be sent to registered Interested and Affected Parties. You are also requested to pass this information to any person you feel should be notified.



P.O.Box 5387
HELDERBERG 7135
Fax: (086) 512 0154
Tel: (021)851 1616

e-mail: admin@enviroafrica.co.za

29 St James Street
Somerset West
VAT 4870170513
CK 97 46008/23

EnviroAfrica

Environmental Planning and Impact Assessment Consultants
Omgewingsbeplanning en Impakbeoordeling Konsultante

28 November 2012

Kai Garib Municipality
PO Box 8
Keimoes
8880

Att: Mr Handona

NEMAA BASIC ASSESSMENT PUBLIC PARTICIPATION PROCESS

PROPOSED LOW COST HOUSING, KEIMOES, KAI GARIB MUNICIPALITY, NORTHERN CAPE

DEPARTMENT OF ENVIRONMENTAL AFFAIRS (DEA) REF NO: NC/EIA/SIY/KAI/KEI2/2012 (NCP/EIA/0000181/2012)

Notice is hereby given of the public participation process in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended ("NEMA"), Environmental Impact Assessment Regulations 2010.

The proposed low cost housing development and associated infrastructure includes the below activities listed in terms of the NEMA EIA Regulations 2010. EnviroAfrica cc has been appointed by Kai IGarib Municipality, to undertake the **Environmental Impact Assessments** for the proposed project.

Application for environmental authorization to undertake the following activities:

Government Notice R544 (Listing Notice 1): Activity No. 11, 18, and 22

Government Notice R545 (Listing Notice 2): Activity No. 15

Government Notice R546 (Listing Notice 3): Activity No. 14

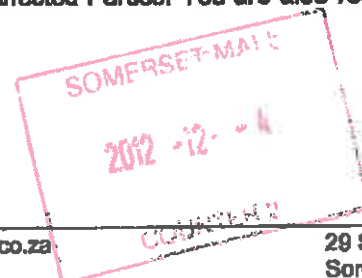
Application has been made to the Competent Authority to follow a Basic Assessment process, instead of a Scoping and Environmental Impact Report.

Project Description & Location: The application is located over two sites located on Erf 666, Keimoes. Site 1 - Off Protea Avenue and Blesbok Avenue, Site 2 - Off Alwyn Street. Combined, the site is approximately 146ha and 1200 residential erven are proposed.

It is proposed that the property be rezoned and subdivided for the development of serviced low cost housing including associated infrastructure. It is required due to the demand for serviced low cost housing and to provide housing for residents of Keimoes affected and displaced by flooding of the Orange River.

Application for exemption: The applicant is intending to apply for exemption from Regulation 10(2)(d) of Government Notice No. R543, which states that the applicant must within 12 days of the date of the decision, place a notice in the same newspaper(s) used for the placing of advertisements as part of the public participation process, informing Interested and Affected Parties of the decision, where the decision can be accessed and the right to appeal. Registered I&AP's will be notified of the decision by post and/or preferred method of communication.

Public Participation: Interested and Affected Parties (I&APs) are hereby notified of the application and invited to register (In writing) and/or provide initial comments and identify any issues, concerns or opportunities relating to this project to the contact details provided below, on or before 25 January 2013. In order to register or submit comment, I&APs should refer to the project name and DEA reference number above, and provide their name, address & contact details (*indicating your preferred method of notification*) and an indication of any direct business, financial, personal, or other interest which they have in the application. Please note that future correspondence will only be sent to registered Interested and Affected Parties. You are also requested to pass this information to any person you feel should be notified.



P.O.Box 5367
HELDERBERG 7135
Fax: (086) 512 0154
Tel: (021)851 1616

e-mail: admin@enviroafrica.co.za

29 St James Street
Somerset West
VAT 4870170513
CK 97 46008/23

by Builder of the Year is to encourage a spirit of volunteerism and nation building by recognizing and celebrating the contribution of diverse individuals, groups and institutions towards the upliftment of South African communities. Acknowledge community workers for their outstanding work and sacrifice – irrespective of race, colour or creed – all members of our rainbow nation. Identify and highlight those community workers who freely give of their time and efforts to uplift their communities and set an example for others to follow. Recognise corporations that make positive contributions to the upliftment of their communities. Encourage other community members to uplift themselves in the same manner as these role.

Speaking at the event last night MEC Alwyn Botes hailed them as the unsung heroes and heroines who are continuing to fight the challenges of inequality and poverty. He said “They burn the midnight oil and walk long distances, often without food and money, to comfort the sickest of the sick and the poorest of the poor.”

He also said “We salute those who run projects aimed at the eradication of poverty, hunger and unemployment in rural and urban areas. Poverty compromises people’s ability to enjoy their basic human rights. Those who lack basic amenities cannot enjoy the other rights in our constitution.”

In conclusion MEC Botes said “Tonight we are going to salute many charitable people, among these are members of pension communities. They are safeguarding the money and dignity of our parents and grandparents against abuse, robbery, theft and exposure.”

The Community Builder of the Year is divided into the following 5 Categories of which each category winner received prize money of R 20 000 which must be used for the sustainability of the project.

- WINNER YOUTH – Ricardo Jonathan – Kgalelopele Youth Community Development Project - Grobblerskopp
- WINNER ADULT CATEGORY – Dilegoleg Tlo – Curling Wire – Barkley West
- WINNER SENIOR CATEGORY – Seila Matsipe – Tswelopele Eldarly Club – Oifantshoek
- WINNER GROUP CATEGORY – Kasper Spandiel – Kasper Spandiel Coaches – Ritchie
- WINNER DISABLED GROUP – Tebogo Meremetsi – Jos Morolong Disability Cluster

KALIGARIB MUNICIPALITY

NEMA PUBLIC PARTICIPATION PROCESS

PROPOSED LOW COST HOUSING DEVELOPMENTS, KALIGARIB MUNICIPALITY, NORTHERN CAPE

Notice is hereby given of the public participation process in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended (“NEMA”), Environmental Impact Assessment Regulations 2010.

Kaligarib Municipality is proposing low cost housing developments and associated infrastructure in Kakamas and Keimoes. EnviroAfrica cc has been appointed by Kaligarib Municipality, to undertake the Environmental Impact Assessments for the proposed projects.

Project Description and Location: It is proposed that the properties listed below be rezoned and subdivided for the development of serviced low cost housing, including associated infrastructure. These are required due to the demand for serviced low cost housing and to provide housing for residents of Kakamas and Keimoes affected and displaced by flooding of the Orange River.

Kakamas: Erf 1928, Kakamas, located off the R359. The site is approximately 46,8ha and 694 residential erven are proposed.

Keimoes (A): Erf 666, Keimoes, located off the N14. The site is approximately 49ha.

Keimoes (B): The application is located over two sites located on Erf 666, Keimoes. Site 1 - Off Protea Avenue and Blesbok Avenue, Site 2 - Off Alwyn Street. Combined, the site is approximately 148ha and 1200 residential erven are proposed.

Application for environmental authorization to undertake the following activities:

Kakamas: Government Notice (GN) R544: Activity No. 11, 18, 22 and 24. GN R545: Activity No. 15.

DEA Reference number: NCE/IA/SY/KAL/KAK/1/2012 (NCP/EIA/0000179/2012)

Keimoes (A): Government Notice (GN) R544: Activity No. 11, 18 and 22. GN R545: Activity No. 15.

DEA Reference number: NCE/IA/SY/KAL/KEH/2012 (NCP/EIA/0000189/2012)

Keimoes (B): Government Notice (GN) R544: Activity No. 11, 18 and 22. GN R545: Activity No. 15. GN R546: Activity No. 14.

DEA Reference number: NCE/IA/SY/KAL/KEI/2/2012 (NCP/EIA/0000181/2012)

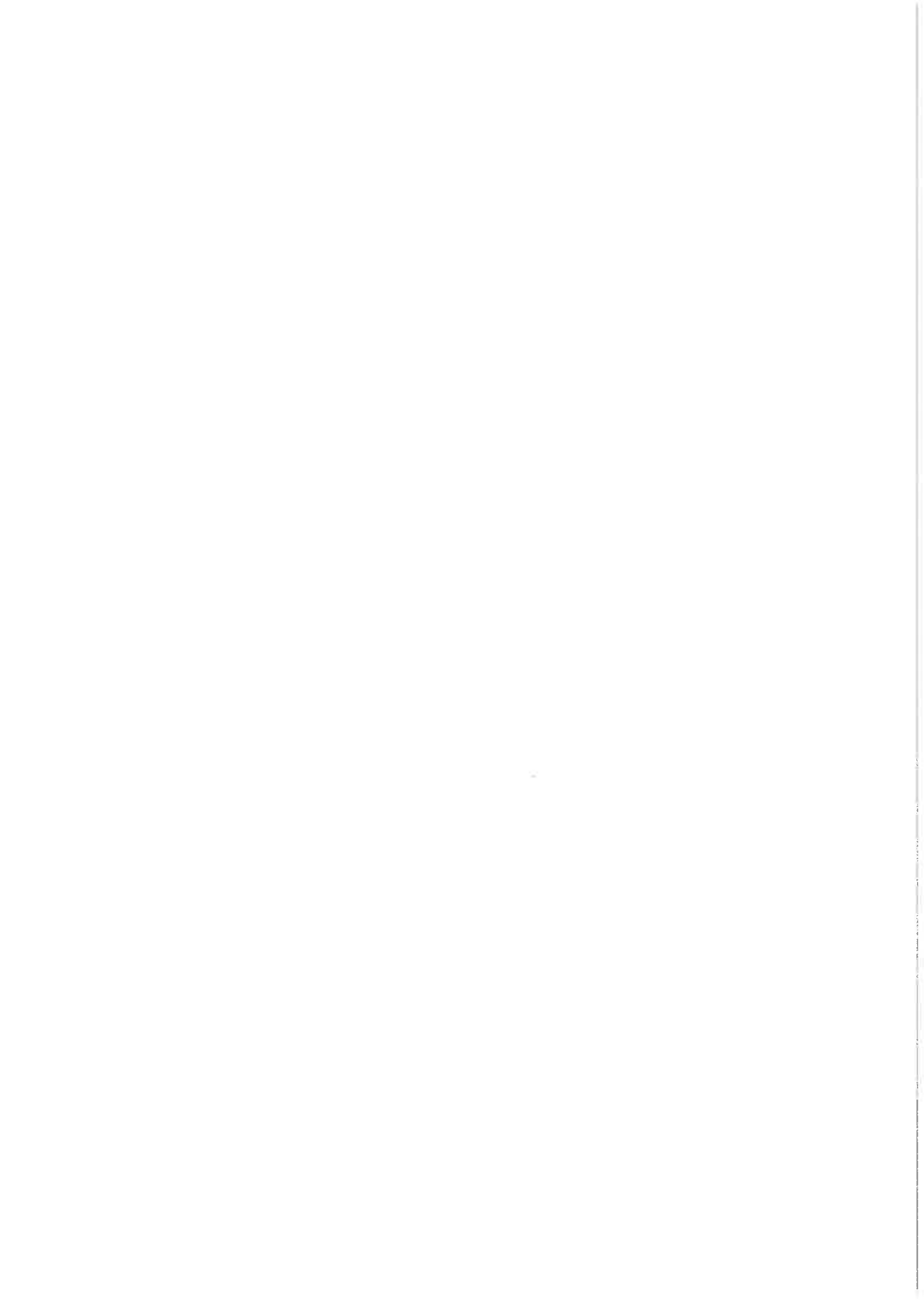
Application has been made to the Competent Authority to follow a Basic Assessment process, instead of a Scoping and Environmental Impact Report.

Application for exemption: The applicant is intending to apply for exemption from Regulation 10(2)(d) of Government Notice No. R543, which states that the applicant must within 12 days of the date of the decision, place a notice in the same newspaper(s) used for the placing of advertisements as part of the public participation process, informing interested and Affected Parties of the decision, where the decision can be accessed and the right to appeal. Registered I&APs will be notified of the decision by post and/or preferred method of communication.

Public Participation: Interested and Affected Parties (I&APs) are hereby notified of the application and invited to register (in writing) and/or provide initial comments and identify any issues, concerns or opportunities relating to this project to the contact details provided below, on or before 25 January 2013. In order to register or submit comment, I&APs should refer to the project name (site specific) and the DEA reference number above, and provide their name, address & contact details (indicating your preferred method of notification) and an indication of any direct business, financial, personal, or other interest which they have in the application. Please note that future correspondence will only be sent to registered interested and Affected Parties. You are also requested to pass this information to any person you feel should be notified.

Consultant: EnviroAfrica CC, P.O. Box 5367, Helderberg, 7135 / Fax: 086 512 0154 / Tel: 021 8511616 /

E-mail: admin@envirofrica.co.za



APPENDIX E (3)

Comments and response report:

No comments were received during the initial Public Participation Process period

Appendix F

Environmental Management Programme

DRAFT ENVIRONMENTAL MANAGEMENT PLAN

FOR THE

**MANAGEMENT OF ACTIVITIES RELATING TO THE PROTECTION OF
THE NATURAL ENVIRONMENT DURING THE CONSTRUCTION AND
OPERATIONAL PHASES OF THE**

PROPOSED LOW COST DEVELOPMENT PORTION OF REMAINDER ERF 666, KEIMOES (SITE B), NORTHERN CAPE

*This EMP is a DEA&DP Requirement,
and is to be presented to contractors at the On Site Start-Up Meeting*

Compiled by

EnviroAfrica cc

May 2013

TABLE OF CONTENTS

1. INTRODUCTION.....4

2. COMMENCEMENT OF WORKS.....4

3. ENVIRONMENTAL CONDITIONS OF APPROVAL.....5

4. ISSUES OF CONCERN.....5

5. ON-SITE START-UP MEETING.....6

6. METHOD STATEMENT.....7

7. ENVIRONMENTAL DECLARATION of UNDERSTANDING.....8

8. PENALTIES.....8

9. RESPONSIBILITY OF THE APPLICANT.....9

10. THE SITE ENGINEER / SITE MAIN CONTRACTOR.....9

11. THE CONTRACTOR.....10

12. SITE PERSONNEL: ENVIRONMENTAL AWARENESS TRAINING.....11

13. ENVIRONMENTAL CONTROL OFFICER.....11

14. CHANGES TO MANAGEMENT PLAN.....13

15. RECORD KEEPING.....14

16. ENVIRONMENTAL COMPLETION STATEMENT.....14

17. MANAGEMENT SPECIFICATIONS (CONSTRUCTION PHASE).....15

17.1 Fauna and Flora.....15

17.2 Protection and Rescue of Fauna and Flora.....15

17.3 Clearing of Vegetation, Stripping & Conservation of Topsoil.....15

17.4 Protection of Archaeological & Paleontological remains.....16

17.5 Appropriate use of Machinery.....16

17.6 Demarcating and fencing.....17

17.7 “NO-GO” Areas.....18

17.8 Water, Storm water, Erosion & Sedimentation Control.....18

17.9 Fuel, Tar Compounds and Oil.....19

17.10 Hazardous Substances.....19

17.11 Concrete Works.....20

17.12 Blasting / drilling (if required).....21

17.13 Fires and smoking.....21

17.14 Emergency Procedures.....21

17.15 Dust Control.....22

17.16 Solid Waste Management.....22

17.17 Toilets & Ablution Facilities.....22

17.18 Stockpiling.....23

17.19 Preparation of Building Material.....23

17.20 Discharge of construction water.....23

17.21 Treating (flushing / testing) of Pipelines (if required).....24

17.22 Contractors Temporary Camping site & Eating Areas.....24

17.23 Traffic, Access Routes & Haul Roads.....24

17.24 Site Clean Up and Rehabilitation.....25

17.25 Land Management.....	25
17.26 Socio-Cultural Issues.....	26
17.27 Additional Associated Installations.....	26
18 MANAGEMENT SPECIFICATIONS (OPERATIONAL PHASE)	26
19 TERMS AND ABBREVIATIONS:.....	27
20 APPENDICES:.....	31
APPENDIX 1: START-UP REPORT.....	32
APPENDIX 2: PENALTIES FOR NON-COMPLIANCE	34
APPENDIX 3: DECLARATION OF UNDERSTANDING.....	38
APPENDIX 4: INFORMATION ON METHOD STATEMENTS.....	40
APPENDIX 5: EXAMPLE OF METHOD STATEMENT.....	42
APPENDIX 6: CONTACTOR: ENVIRONMENTAL DAILY CHECKLIST	45
APPENDIX 7: BASIC RULES OF CONDUCT	47
APPENDIX 8: ECO/ESO DAILY REPORT/CHECKLIST.....	51
APPENDIX 9: ENVIRONMENTAL AUTHORISATION	58
APPENDIX 10: RECOMMENDATIONS AS PER BASIC ASSESSMENT REPORT	59
APPENDIX 11: DRAWINGS.....	60
APPENDIX 12: ANY OTHER RELEVANT DOCUMENTS.....	62

ENVIRONMENTAL MANAGEMENT PLAN FOR ACTIVITIES RELATING TO THE PROTECTION OF
THE NATURAL ENVIRONMENT DURING THE CONSTRUCTION AND OPERATIONAL PHASE OF
THE
**PROPOSED LOW COST HOUSING DEVELOPMENT ON PORTION OF REMAINDER
ERF 666, KEIMOES (SITE B),
NORTHERN CAPE**

(This EMP is a condition as set out in the EA)

1. INTRODUCTION

This Environmental Management Plan (EMP) forms part of the conditions as set out in the Environmental Authorisation (EA) and recommendations as detailed in the Basic Assessment Report (dated May 2013)

This EMP binds all contractors, sub-contractors and other persons working on the site to adhere to the terms and conditions of the EMP throughout the construction of the De Roodezandt Development and associated infrastructure.

Any other Site Specific additional activities decided and agreed upon at the "On Site Start-Up Meeting" must be included to form part of the EMP.

EMP Circulation List

Full copies of this EMP will be made for the ECO, Site Engineer and/or Contractor. Appendices will also be made and circulated where relevant.

2. COMMENCEMENT OF WORKS

The site project contractors must timeously receive a copy of the site EMP and any other further additional information that pertains to site conditions/amendments or deviations from original site plan. This EMP must form part of the Contractors Contract.

A copy of the EMP must be on site at all times and available for presentation to any authority requesting to see such document.

No work on site may take place until:

- The Environmental Contract is signed between the relevant parties
- One week's written notice given to the Department before commencement of any construction activity (As per the EA)
- EMP has been approved by the relevant authorities
- On-Site Start-Up Meeting has been held
- Site and No-Go areas has been demarcated
- Contractors are in possession of the EMP and other relevant documentation
- Contractors signed the Declaration Of Understanding
- All mandatory site equipment is in place

- On Site Environmental Education & Awareness training session has taken place with all relevant construction personnel present.
- Search and Rescue of important vegetation on site takes place.

NB: Work refers to: Camp Establishment, Earthmoving activities and any preliminary construction activities.

3. ENVIRONMENTAL CONDITIONS OF APPROVAL

- Environmental Authorisation Conditions Of Approval – see Appendix 9 for the full EA
- Original Basic Assessment Report Recommendations – see Appendix 11
- Local Authority Conditions of Approval – if applicable
(see attached as appendices)

4. ISSUES OF CONCERN

Issues of concern that were identified in the Environmental Impact Assessment process and/or included in the EA include but are not restricted to the following:

- Protection of sensitive natural vegetation

The pre-determined environmental issues and respective activities must be addressed during the “On Site Start-Up Meeting” (OSSM) and reflected in the On-Site Start-Up Report.

The Site Specific recommendations as per conditions of the Environmental Authorisation are to be included and to be reflected in the On-Site Start-Up Report (refer point 6 under start-up report)

Such activities include but shall not be limited or restricted to;

- Access route
- Demarcation of working footprint and removal and storage of topsoil material
- Waste management
- Mandatory site equipment
- Establishment of construction site compound and fuel stores
- Ablution and Toilet Facilities
- Refuse Management
- Concrete works & batching proposals
- Soil Erosion Control
- Fire fighting equipment & Emergency fire reaction plan
- New access road construction (if required)

5. ON-SITE START-UP MEETING

The mandatory **on-site start-up** meeting that is conducted preferably **14 days but not less than 5 working days** prior to commencement of any site/camp establishment, earthworks and/or construction activities and will relate to additional discussed information that must be complied with during the entire construction phase.

ON-SITE START-UP MEETING REPORT to be attached as Appendix 1 to the EMP. The Start-Up Meeting Report to include all site-specific issues and arrangements as discussed and agreed on at the site start-up meeting.

The On-Site Start-Up Meeting additional information pertains to specific site construction agreements that was discussed on site by all the relevant parties and agreed on and must be included in the On Site Start-Up Meeting Report. **(The arrangements and agreements must fall within the conditions as set out in the EA)**

At the on-site start-up meeting (OSSM), the following issues must be addressed:

- The EMP & other relevant site documents
- Project to be discussed and all uncertainties are cleared
- Method statement/s to be discussed
- Road (if required) and construction area to be demarcated
- Materials stockpile and lay down areas to be demarcated
- Method of stockpiling to be discussed
- Fire fighting procedures
- Mandatory fire fighting equipment & fire preventative measures
- Solid waste removal intentions
- Placement, type and service of toilets to be agreed on
- Placement and type of rubbish bins and removal of rubbish to be agreed on
- Labour overnight camp to be demarcated and services agreed on (if required)
- Environmental Education and awareness training session to all contractors & onsite staff/labour

The following people must attend the on-site Start-Up Meeting:

- A representative from the Applicant
- Main contractor's representative.
- Site supervisor/foreman
- Environmental consultant (EC/ECO)
- Environmental site officer (ECO/ESO)

Minutes of the on-site Start-Up Meeting will be condensed to a report format and circulated to all attendees of the above named meeting for their perusal and comments if needed. A Non-response is deemed an acceptance of the contents and agreements of the report. **(Appendix 1)**

The main contractor must provide (i) a list of all sub-contractors and their scope of work for the contract and (ii) a time schedule of works.

The On-site Start-up Meeting report will also form part of this Environmental Management Plan. If any discrepancies between the start-up report and the EMP arise then the EMP will take precedence until clarification on the discrepancy is clarified. If any discrepancies between the EMP and the EA then the EA will take precedence until clarification on the discrepancy is clarified.

IT IS THE RESPONSIBILITY OF THE MAIN CONTRACTORS TO ENSURE THAT ALL SUB-CONTRACTORS, THAT WORK ON THE SITE DURING AND AFTER THE CIVILS CONTRACT, ARE INFORMED OF THE ENVIRONMENTAL CONDITIONS PERTAINING TO THE SITE.

NBI NO WORK WILL START UNTIL THE ABOVE IS IN PLACE AND AGREED ON.

6. METHOD STATEMENT

Method statements from the contractor will be required for specific sensitive actions on request of the authorities, Applicant's representative or the ECO. A method statement forms the base line information on which sensitive area work takes place and is a "live document" in that modifications are negotiated between the Contractor and ECO/Applicant, as circumstances unfold. All method statements will form part of the EMP documentation and are subject to all terms and conditions contained within the EMP main document.

These documents must be available to the authorities for inspection or on request.

A method statement describes the scope of the intended work in a step-by-step description in order for the ECO and the Applicant to understand the contractor's intentions. This will enable them to assist in devising any mitigation measures, which would minimize environmental impact during these tasks.

The Contractor must submit the method statement before any particular construction activity is due to start. Work may not commence until the ECO and Applicant have approved the method statement.

Method statements need to be compiled by the contractor for approval by the Applicant and the ECO. The contractor must submit written method statements to the Applicant for the purposes of the environmental specification, a "Method Statement" is defined as a written submission by the contractor to the Applicant setting out the plant, materials, labour and method the contractor proposes using to carry out an activity, in such detail that the Applicant and the ECO is able to assess whether the contractor's proposal is in accordance with the specifications and/ or will produce results in accordance with specifications.

The contents of the Method statement cannot be changed or altered.

The method statement must cover applicable details with regard to:

- Construction procedures
- Materials and equipment to be used
- Getting the equipment to and from site
- How the equipment/ material will be moved while on site

- How and where material will be stored
- The containment (or action to be taken if containment is not possible) of leaks or spills of any liquid or material (of any potential hazardous material) that may occur
- Timing and location of activities
- Compliance/ non-compliance with the Specifications, and
- Any other information deemed necessary by the Applicant and the ECO.

The Contractor must abide by these approved method statements, and any activity covered by a method statement must not commence until the Applicant and the ECO has approved of such Method Statement.

NB: No work may commence or take place until all relevant parties have approved the Method Statement.

Explanation of method statements and a pro forma method statement sheet that must be completed by the Contractor for each activity requiring a method is attached as **Appendix 4 & Appendix 5**.

7. ENVIRONMENTAL DECLARATION of UNDERSTANDING (for the Environmental Management Plan (EMP))

The purpose of the Environmental Declaration of Understanding agreement between the applicant / client, the engineer, the contractor and the Environmental Consultant is;

1. To enforce compliance by all PARTIES with the EA and this Environmental Management Plan.
2. To maintain proof of compliance with the site EA.
3. Applicant to inform all relevant parties of the EA and EMP (as per condition of the EA).
4. To protect the ENVIRONMENT of the site against environmental damage;
5. To mitigate and rehabilitate any damage to the ENVIRONMENT.
6. Ensure that all contractors and sub-contractors are familiar with the EMP & EA and sign the mandatory Declaration of Understanding indicating their undertaking to work within the framework of the environmental requirements.

This agreement outlines the obligations on the ECO to ensure compliance by all parties with the EMP

8. PENALTIES

The Applicant (on recommendation by the ECO) reserves the right at all times for the duration of this agreement to impose restrictions and associate penalties on the contractor with respect to the specific nature, timing and extent of construction activities on environmentally sensitive sites.

In instances of non-compliance with the EMP by the contractor (or any of their employees) or sub-contractor/s (or any of their employees) that move on or off the site, the on-site ECO must issue a written warning indicating the non-conformance to the contractor.

The Applicant, in consultation with the Environmental Consultant/ECO must determine the amount of the penalty applicable in accordance with the Penalties for Non-Compliance Schedule of Tariffs (**Appendix 2**).

Such penalty amount must be produced in writing and presented to the contractor within seven (7) days of the written warning. The Applicant may recover penalties by deducting the fine from the offending contractor.

The contractor will be responsible for all costs incurred where emergency procedures are implemented to deal with accidents impacting on the environment as well as the rehabilitation of such damage in conjunction with the ECO and site engineer.

In serious cases, at the discretion of the Applicant and the Environmental Consultant/ECO, any multiple offences can be added together.

The ECO (after consultation with Environmental Consultant/ the Applicant) may also *stop the works or part thereof until the situation is resolved; no extension of time is claimable by the contractor.*

These penalties do not preclude any prosecution under any law or regulation.

This set of procedures must be understood by all relevant onsite project managers / project managers and site workers.

See **Appendix 2** for the Penalties for Non- Compliance.

9. RESPONSIBILITY OF THE APPLICANT

Kai! Garib Municipality (as the Applicant) must be responsible for ensuring compliance with the conditions contained in the EA by any person acting on his behalf, including but not limited to an agent, servant, employee or any person rendering a service to the Applicant in respect of the activity, including but not limited to contractors and consultants.

The Applicant is responsible for appointing the ECO, Site Engineer and Contractor for the duration of the construction contract and for ensuring that the Site Engineer and Contractor fulfil their obligations in terms of this EMP.

The Applicant and or its representative must notify DEA&DP and any other relevant authority, in writing, within 24 hours thereof if any condition of this authorisation is not adhered to.

10. THE SITE ENGINEER / SITE MAIN CONTRACTOR

The Site Engineer / Site main contractor is responsible for ensuring that the construction contract and daily construction activities as per the original site specifications are implemented in terms of the Environmental Management Plan which includes additional on-site Start-Up Meeting agreements

The Site Engineer and the ECO are expected to develop a close working relationship and to stay in contact with each other.

The Site Engineer issues site instructions to the Contractor and all requests and communications between the ECO and Contractor are via the Site Engineer.

The only exception to this is where the ECO needs to issue a "stop works" order on the Contractor or the Site Engineer if serious environmental harm is about to happen or is happening as a result of construction activity. This "stop-order" must be confirmed by the ECO as soon as practically possible to all affected construction personnel.

When the ECO is not on site, the resident engineer will be responsible for implementation of the EMP. Any construction and construction related activities that might lead to damage to the environment should be immediately brought to the attention of the site ECO.

The site engineer or the appointed engineer's representative must complete the daily "ENVIRONMENTAL DAILY CHECKLIST" (see Appendix 6)

11. THE CONTRACTOR

The Contractor must ensure that all of its sub-contractors, employees, suppliers, agents, etc., are fully aware of the environmental issues detailed in the site EMP. The Contractor must liaise closely with the Site Engineer and the ECO and must ensure that the works on site are conducted in an environmentally sensitive manner and fully in accordance with the requirements of the EMP, at all times.

Any main bulk service providers must be advised of the construction activities as well as the requirements of this EMP and the Contractor must be responsible for their activities conducted within their work areas.

All contractors working on site must have proper and competent contractor supervision during their time of contract.

If more than one contractor work on the site simultaneously then the responsibility lies on each contractor to adhere to the conditions of the EMP and related documents.

This is for the duration of the contract.

The supervisors must work closely with the appointed environmental officer and discuss the daily programme with the appointed environmental officer. Any problems that might lead to damage to the environment must be discussed prior to commencement of the activity.

THE ECO MUST ENSURE THAT ALL CONTRACTORS / SUB-CONTRACTORS HAVE SIGNED THE "DECLARATION OF UNDERSTANDING" (Appendix 3) IN THIS CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN BEFORE CONSTRUCTION COMMENCES.

12. SITE PERSONNEL: ENVIRONMENTAL AWARENESS TRAINING

All daily site construction personnel must attend an on-site Induction Environmental Education and Awareness training (E&AT) session together with any site-specific environmental training they may require to carry out their duties.

All contractor and sub-contractor teams involved in work on site must be briefed on their obligations towards environmental controls and methodologies in terms of this EMP prior to commencement of any construction and construction related activities

The on-site Environmental Education and Awareness Training session must take the form of an on-site environmental talk and where necessary relevant demonstrations conducted by the ECO.

The on-site Environmental Education and Awareness Training session must be aimed at all levels of site contractors, sub-contractors and related site workers & site management.

In the case of new workers coming on site throughout the construction programme, the site contractor is responsible to ensure all new labour arriving on site is made aware of the contents of the EMP and is briefed on the E&AT.

13. ENVIRONMENTAL CONTROL OFFICER

13.1 Frequency of site visits

An ECO must be appointed for the duration of the construction phase (as required by the EA). The ECO must comply with the following:

- Conduct a start-up meeting before construction commences
- ECO to monitor the development at least twice a month until the development is completed
- Conduct a closing down visit as soon as possible after completion of the Development
- Conduct an Environmental compliance audit within 6 months after completion of the civil contract.

13.2 Requirements for the Posts

Environmental Control Officer: [ECO]

- A recognised environmental practitioner with a degree in environmental management and a sound knowledge of the environment and environmental management principles.
- An independent person with 5 or more years of environmental site management and able to ensure EMP compliance monitoring experience on construction projects.

13.3 Monitoring responsibilities of the ECO

- The ECO will undertake regular site inspections and to monitor and assist in environmental tasks he/she must compile daily / weekly reports/checklist and submit to EnviroAfrica / the Applicant

- Is to ensure that the mitigation/rehabilitation measures and recommendations referred to in the Environmental Authorisation are implemented and to ensure compliance with the provisions of the EMP.
- Must notify DEA&DP and any other relevant authority, in writing, within 24 hours thereof if any condition of the EA is not adhered to.
- Is responsible for the environmental issues involved with the construction phase of the project;
- Co-ordinating any aspect of site activity that may have an effect on the environment;
- Must work in close conjunction with the Applicant /Site representative, contractors and sub-contractors
- Must identify and demarcate the impact area i.e. construction footprint area before any construction activities commence
- Must demarcate the necessary areas for storage of materials, ablutions, eating areas of contract workers, etc.
- Must identify 'No go' areas and areas sensitive to erosion and have these areas demarcated. Environmental awareness of the workers is essential. This must be in the form of an on-site talk and must be conducted at an appropriate technical level
- The ECO will keep a site inspection diary. The purpose of the site diary is to record construction progress and environmental compliance. This information is then recorded in the form of an ECO checklist and/or diary entries and photographic records for visual reference. (Appendix 8).
- These documents must be available to the authorities for inspection or on request. The diary must include meetings/discussions with the contractor and must reflect environmental queries, agreed actions and dates of eventual compliance. These must form part of the official environmental record

13.4 Authority of the ECO

The ECO has the authority to stop works if in his/her opinion there is a serious threat to or impact on the environment caused directly from the construction operations.

This authority is to be limited to non-compliance to the EMP and emergency situations where consultation with the Environmental Consultant is not immediately available.

The ECO is to inform the Environmental Consultant of the reasons for the stoppage as soon as possible. A relevant reason should be supplied to the Applicant/Site representative as soon as possible after stoppage of such works.

Upon failure by the contractor or his employee to show adequate consideration to the environmental aspects of this contract i.e. wilful destruction of the environment, the ECO may recommend to the Applicant/site representative to have the contractor's representative or any employee(s) removed from the site or work suspended until the matter is remedied.

No extension of time will be considered in the case of such suspensions and all costs will be borne by the contractor

13.5 Appointment of an ESO. (Environmental Site Officer)

When necessary the ECO may appoint an ESO to carry out the site inspections and the following will apply:

- The ESO is appointed prior to commencement of construction activities, site inspections are decided upon between the Applicant and the ECO depending on the environmental sensitivity of the construction areas and site location.
- The frequency of site inspections is also determined prior to commencement of works but can change if the need arises.

13.5 Qualifications of an ESO.

The appointed Environmental Site Officer must fulfil the following criteria:

- Have at least 6 years' experience as an Environmental Site Officer.
- Have a sound understanding of the contents of the EMP.
- Must be able to enforce compliance to all relevant site documents.
- Have a basic knowledge of the NEMA and other relevant information.
- A construction background would be an advantage.
- Must be able to work with site personnel and resident engineers.

14. CHANGES TO MANAGEMENT PLAN

Although care has been taken to address all known relevant environmental issues for the construction phase, it may become necessary to add or amend certain procedures or instructions to improve the efficiency of the Environmental Management Plan (EMP).

Only those additions or amendments of this EMP that will either improve environmental protection or can be proven not to have any negative effect to the immediate and surrounding environment will be considered.

Changes or deviations have to be motivated in writing by means of a Method Statement and the same procedures for a standard Method Statement have to be followed.

Any additions or amendments must be submitted by the ECO to DEA&DP after the ECO has consulted with the Environmental Consultant and the Applicant. Please note that any additions or amendments to this EMP must be approved by DEA&DP before they are implemented.

No deviation from the contents of the EMP is allowed without the above-named prescribed procedures.

15. RECORD KEEPING

All records relating to the implementation of this management plan (e.g. Declaration of Understanding, ECO Checklist and/or diary, Method Statements, etc.) must be kept together and can be retrieved easily. These records must be available for scrutiny by any relevant authorities.

Photographs are to be taken of the site prior to, during and immediately after construction, as a visual reference. These photographs must be stored with other records related to this EMP.

Any environmental non-compliances reported must have the support of sufficient photographic proof to mitigate the non-compliance report.

16. ENVIRONMENTAL COMPLETION STATEMENT

An Environmental Completion Statement is a report by the ECO/EC to the relevant authorities stating completion of the project and compliance with the EMP and conditions.

The following environmental statements must be completed on completion of all site construction activities and submitted in line of sequence to the relevant office for perusal and reference.

16.1 ESO: ENVIRONMENTAL CLOSING STATEMENT

The ESO must submit an **environmental closing statement** on completion of the construction phase of the development. The environmental closing statement must cover all aspects of daily/weekly construction activities that took place during the ESO site inspections.

16.2 ECO: ENVIRONMENTAL COMPLETION STATEMENT

The ECO must submit an **environmental closing statement** relating to all environmental and technical issues that occurred on site as well as any conclusions regarding incidents such as written warnings, stoppages of works and penalty fines.

16.3 ENVIRONMENTAL AUDIT REPORT

An Environmental Audit Report by the ECO must be submitted by the Applicant to the satisfaction of the Department of Environmental Affairs and Development Planning, within six months after construction has been completed and also after the sites have been rehabilitated.

17. MANAGEMENT SPECIFICATIONS (CONSTRUCTION PHASE)

(This EMP is additional to conditions as set out in the EA)

17.1 Fauna and Flora

The Contractor must not deface, paint, damage or mark any natural features (e.g. trees, rock formations, buildings, etc.), if these should be situated in or around the Site, for survey or other purposes unless agreed beforehand with the Engineer and the ECO. Any features affected by the Contractor in contravention of this clause must be restored/rehabilitated to the satisfaction of the Engineer and the ECO.

Except to the extent necessary for the carrying out of the works, flora must not be removed, damaged or disturbed nor must any vegetation be planted. Any removal of vegetation that is necessary should be kept strictly to the demarcated area. Indigenous vegetation patches surrounding the proposed site, if any, should be established as no-go areas. .

Trapping, poisoning and/or shooting of animals is strictly forbidden. No domestic pets or livestock are permitted on Site. Where the use of herbicides, pesticides and other poisonous substances are to be used, the Contractor must submit a Method Statement.

All incidents of harm to any animal or natural vegetation (apart from the agreed upon areas) must be reported to the ECO.

The protection of the rocky area to the northeast of the property should also be considered, and should be demarcated a "no-go area".

17.2 Protection and Rescue of Fauna and Flora

As a pre-cautionary measure all viable herb-, bulbs- and succulent plant species encountered within the footprint should be removed and replanted through a dedicated search and rescue operation.

Permits must be obtained for the removal of any protected species which cannot be avoided.

If required, any flora identified during construction to be rescued must be removed and placed in an area specifically allocated for these plants to ensure that the necessary care thereof will take place until being relocated and planted in designated areas.

Any areas of vegetation that are to be protected during construction must be demarcated and indicated on a site plan. A Method Statement is to be submitted to the ECO by the Contractor, detailing the method of fencing for protection of the conservation areas.

17.3 Clearing of Vegetation, Stripping & Conservation of Topsoil

A Method Statement must be submitted detailing the methods to be used for vegetation clearing. All cleared areas must be stabilised as soon as possible. Burning of cleared vegetation on site is prohibited. The burying of cleared vegetation or use as part of backfill or landscape shaping is prohibited unless written approval is obtained from the ECO.

Cleared vegetation may be used for mulch or slope stabilisation of the Site. Should bulk vegetation be removed from the designated working areas (foot print area) then tall vegetation shall first be removed through brush cutting and chipping of larger shrub material; this may be added to the topsoil material stockpiles as mulch. Unless otherwise agreed upon, only indigenous plant material shall be used for this purpose.

Prior to any activities within the demarcated work areas, topsoil material shall be removed to a depth of 300mm or deeper if specified by the engineer in consultation with the ECO, and stockpiled in a designated area for use in rehabilitation of the site post construction. Any area where the topsoil will be impacted by construction activities, including the construction offices and storage areas, must have the topsoil stripped and removed and covered with herbaceous vegetation (other than alien species), overlying grass and other fine organic matter and stockpiled for subsequent use in rehabilitation.

Topsoil storage areas must be convex and should not exceed 2m in height. The Contractor must ensure that the material does not blow or wash away. Topsoil must be treated with care, must not be buried or in any other way be rendered unsuitable for further use (e.g. by mixing with spoil) and precautions must be taken to prevent unnecessary handling and compaction. In particular, topsoil must not be subject to compaction greater than 1 500 kg/m² and must not be pushed by a bulldozer for more than 50 m. Trucks may not be driven over the stockpiles.

Topsoil from different soil types must be stockpiled separately and replaced in the same areas from which they were taken if this proves to be the case. Specific attention should be given to the areas that may house rare and threatened species. Topsoil areas must be demarcated in order to ensure the safekeeping of topsoil and to separate different stockpile types.

17.4 Protection of Archaeological and Paleontological remains

Should any unmarked human burials/remains or ostrich eggshell water flask caches be uncovered, or exposed during construction activities, these must immediately be reported to the archaeologist (Jonathan Kaplan 082 321 0172), or Ms Katy Smuts at the South African Heritage Resources Agency (021 462 4502). Burials must not be removed or disturbed until inspected by the archaeologist.

In the event that previously unknown archaeological features are exposed during the construction phase, the Contractor should inform the Engineer and the ECO who will advise the Applicant on the necessary course of action.

Note that the Contractor may not, without a permit issued by the responsible heritage resource authority; destroy, damage, excavate, alter, deface or otherwise disturb any archaeological site or archaeological material. The latter is a criminal offence under the Heritage Resources Act.

17.5 Appropriate use of Machinery

Contractor must, at all times, carefully consider what machinery is appropriate to the task while minimizing the extent of environmental damage.

The contractor may not operate any machinery including a fuel driven compressor outside the demarcated area.

Where practical, all maintenance of plant and machinery on Site must be performed in workshops. If it is necessary to do maintenance outside of a workshop area, the Contractor must obtain the approval of the Engineer and the ECO prior to commencing activities

All vehicles and equipment must be routinely inspected for fuel and oil leaks, kept in good working order and serviced regularly. Leaking equipment must be repaired immediately or removed from the Site. When servicing equipment, drip trays must be used to collect the waste oil and other lubricants. Drip trays must also be provided in construction areas for stationary plant (such as compressors) and for "parked" plant (such as scrapers, loaders, vehicles). Drip trays will be kept free of water that will float the oil to overspill. All drip trays / bungs to attain a 120% capacity of the plant fuel / oil capacity.

Appropriate 2.5kg (minimum requirement) dry powder SABS approved and service certified fire-fighting extinguisher must be a mandatory item on all vehicles working and moving on or off the construction site.

17.6 Demarcating and fencing

Final site demarcation must be carried out with all relevant parties (who will be responsible) present for the day-to-day activities on the site, they include;

Applicant	Representative
Environmental Consultant	Environmental Consultant (EC)
Main Contractor	Project Site Manager
Sub-contractor	Project contractor
ECO/ESO	Environmental Control Officer or Site Officer

The proposed site will be demarcated prior to the commencement of any construction activities whatsoever, this includes site establishment, the moving of construction material or any other items onto the site, etc.

The site will be demarcated with appropriate strong steel dropper poles. A single strand of orange baler twine is to be attached to the dropper poles to indicate boundaries and no-go areas for site personnel and vehicular movement. (Alternative fencing may be decided upon dependent on site requirements)

The construction area i.e. road, stockpile areas and development footprint etc. must be demarcated and fenced off with steel dropper poles and orange baler twine approximately 1m high is considered adequate. The demarcation will be agreed on during the start-up meeting.

All fencing and fence placement / positioning must be approved by the ECO on site.

Work areas and access routes must be clearly demarcated to minimise environmental impact.

NB. Steel dropper poles and orange baler twine has proven to be the most environmentally friendly means of on-site demarcation.

In the event that sensitive features are threatened by construction activities, temporary fencing off of these areas (for individual areas such as trees or rocks) or the construction area (when working in a mainly natural environment) is recommended.

The Contractor must maintain in good order all demarcation, fencing and barriers for the duration of construction activities, or as otherwise instructed. Any temporary fencing removed for the execution of any portion of the works is to be reinstated by the Contractor as soon as practicable. The Contractor at the end of the contract must remove all demarcation, fencing or barriers not forming part of the final works on Site.

Once in place the demarcation barriers may not be moved or altered without consultation with the site ESO and the main contractor.

17.7 "NO-GO" Areas

"NO-GO" areas, if so designated by the EMP, EA or ON SITE START-UP MEETING, are certain pre-determined areas where construction activities are prohibited. The contractor must ensure that no person, machinery and/or equipment enter the "NO-GO" areas at any time during the contract period. If so required by specifications in the EMP, certain areas must be "No go" areas. The Contractor must ensure that, insofar as he has the authority, no person, machinery, equipment or material enters the designated "No Go" areas at any time.

Areas of special importance will be decided upon between the Engineer, Contractor and the ECO and demarcated as "No go" areas on a site plan and fenced off. Such areas are out of bounds to the Contractor and his staff, sub-contractors and their staff or suppliers and their staff and to any other person involved in the construction, without the written permission specified by the ECO.

All private property outside of the construction areas as set out in the site layout plan shall be considered no-go areas.

The protection of the rocky area to the northeast of the property should also be considered, and should be demarcated a "no-go area".

17.8 Water, Storm water, Erosion & Sedimentation Control

The Contractor must take appropriate and active measures to prevent erosion resulting from his own construction activities and operations as well as storm water control measures to the satisfaction of the ECO.

Occupants on site must have access to safe drinking water. Water to be supplied by the contractor shall be from a legal source and comply with recognised standards for potable and other uses.

During construction, the Contractor must protect areas susceptible to erosion by installing all the necessary temporary and permanent drainage works as soon as possible.

It is illegal to discharge water into a public stream if the quality does not conform to the required health or water standards. Other measures as may be necessary must be taken to prevent the surface water from being concentrated in streams and from scouring the slopes, banks or other areas. All potential hazardous fluids / materials must be protected from the rain to prevent them being washed into storm water channels or any aquatic ecosystems. All such measures must be discussed with and approved by the ECO.

17.9 Fuel, Tar Compounds and Oil

Basic guidelines to follow if any fuels are to be stored are as follows:

- These areas must comply with general fire safety requirements.
- All vehicles, equipment, fuel and petroleum services and containers must be maintained in a good condition that prevents leakage and possible contamination of soil or water supplies. Drip trays are to be used in these storage areas to prevent contamination of the ground in the event of spillages or leaks.
- All plants / fuel tanks must have a drip tray present to use in the event off accidental spillage of oils and fuels and must contain a capacity level of 120% of the capacity of the plant fuel and oil tanks.
- Drip trays must be used when refuelling plant or equipment.
- A suitable leak proof container for the storage of oiled equipment (filters, drip tray contents and oil changes etc.) must be established.
- Fuels and oils must be safely located out of harm's way from the elements and safety and fire prevention must be strictly adhered to.
- All spills are to be recorded in the ESO diary.
- A bioremediation/ hydrocarbon spill remediation product approved by the ECO must be stored on site and near the fuel stores for any emergencies such as spills. Once a purpose manufactured hydrocarbon spill remediation product has been used or has been used to treat contaminated materials (soil, rubble etc.), it can be disposed of as per general waste provided this is not in excessive quantities.

Fuel Storage proposals must be cleared by the ECO before any storage or stockpiling takes place.

17.10 Hazardous Substances

If potentially hazardous substances are to be stored on site, the Contractor must provide a Method Statement detailing the substances/materials to be used, together with the storage, handling and disposal procedures of the materials to the Engineer and the ECO.

Paints: - No paint products may be disposed of on Site and brush/roller wash facilities must be established to the satisfaction of the Engineer and the ECO. Oil based paints and chemical additives and cleaners such as thinners and turpentine must be strictly controlled. A Method Statement detailing the paint management procedures is required.

Hazardous building materials: - Any Hazardous building materials (e.g. asbestos, fibre claddings, refrigerants, coolants, sub-station cooling oils, etc.) must be identified and dealt with in accordance with the relevant safety and health legislation. All such material must be separated on Site and disposed of at appropriate licensed disposal sites. The Contractor must supply the ECO with a certificate of disposal.

Hazardous materials should be stored under lock and key in designated areas with properly displayed and visible warning signs.

17.11 Concrete Works

The Engineer (in collaboration with the ECO) must indicate the permitted location of batching plants (including the location of cement stores and sand and aggregate stockpiles), if these are to be present on Site, on a site plan. A Method Statement indicating the layout and preparation of such facilities must be submitted.

Cleaning of equipment and flushing of mixers must not result in pollution of the surrounding environment. All wastewater resulting from batching of concrete must be disposed of via the contaminated water management procedure. Used cement bags must be stored in weatherproof containers to prevent wind dispersion and water contamination. Used cement bags must be disposed of on a regular basis via the solid waste management system, and must not be used for any other purpose.

Disposal of cement bags on site must be arranged with the site ECO.

All visible remains of excess concrete must be physically removed and disposed of on completion of cement work. Washing the remains into the ground is not acceptable. All excess aggregate must also be removed.

The following recommendations must be implemented to minimise impact.

- The concrete mixing must take place on top of boarding and/or impermeable sheeting to protect the ground. This board and or sheeting must be removed from the site once the mixing is complete
- Concrete batching to take place at identified areas only in consultation with the ECO.
- Cement contaminated water may not enter a natural or man-made (e.g. trench / sloop or dam) water system. Preventative measures include establishing sumps from where contaminated water can be either treated in situ or removed to an appropriate waste site.
- Dry mixing batching areas to be carefully placed in consultation with the ECO.
- If possible/appropriate ready mix concrete must be used.
- Cement bags are to be stored securely out of harm's way from the elements (wind and rain). Bags has to be covered and placed on plastic sheeting
- Sand and stone to be stored on plastic if it is stored outside the future fenced off site.
- Excess or spilled concrete must be confined within the works area and then removed to a waste site.
- Wash-down areas must be confined to within the concrete batching area only.

NB: In the event of Ready Mix concrete deliveries taking place on site the site foreman, must ensure that no wash-down of ready mix trucks takes place on or around the site, except at the concrete batching area where concrete wastewater may be contained in the existing bunding pit. Any alternative method of disposal must have to approval of the site ECO.

17.12 Blasting / drilling (if required)

In the unlikely event where blasting or rock drilling is required, the following recommendations must be implemented:

- A Method statement must be provided for each case separately **prior** to commencement of blasting works.
- The contractor must take all necessary precautions to prevent damage to special features and the general environment, which includes the removal of fly rock.
- The contractor must ensure that no pollution results from drilling operations, either as a result of oil and fuel drips, or from drilling fluid. The contractor must take all reasonable measures to limit dust generation as a result of drilling operations.
- The ECO must be given 24-hour notice before blasting events.

17.13 Fires and smoking

No fires are allowed on site.

If Smoking is allowed on site then arrangements to be made for disposal of cigarette buds. No smoking will be allowed outside the agreed upon areas.

Adequate fire fighting equipment according to the fire hazard during the construction period must be available on site and in good working order (at least one type ABC (all-purpose) 2.5 kg extinguisher and 3 fire beaters per working area). The persons on site must be trained in the use of such equipment.

The main contractor must provide a list of all authorities involved in fire fighting in the region. This list must include emergency contact numbers and must be visible at the site office.

Welding, gas cutting or cutting of metal will only be permitted inside the working areas.

The Contractor must pay the costs incurred to organizations called to put out any fires started by him. The Contractor must also pay any costs incurred to reinstate burnt areas as deemed necessary by the Applicant.

It is required that contractors have available the emergency telephone numbers of the nearest local Fire Fighting Station and that an emergency fire fighting re-action plan has been drawn up with on-site workers and the land-owner.

17.14 Emergency Procedures

It is the responsibility of the contractor to assess the potential risks to the environment as a result of the project. As such, the contractor must have the necessary standard emergency operating procedures in place to deal with any potential emergency such as oil spills or fire.

All staff should be made aware of the necessary basic emergency procedures in the event of an emergency including injuries to staff. The appropriate equipment and identified personnel to deal with such basic emergencies should be available on site.

Fire: The Contractor must advise the relevant authority of a fire as soon as one starts and must not wait until he can no longer control it. The Contractor must ensure that his employees are aware of the procedure to be followed in the event of a fire.

Spills: The Contractor must ensure that his employees are aware of the procedure to be followed for dealing with spills and leaks, which must include notifying the Engineer, the ECO and the relevant authorities. Treatment and remediation of the spill areas must be undertaken to the reasonable satisfaction of the ECO and Local Authority.

17.15 Dust Control

The Contractor must take all reasonable measures to minimize the generation of dust as a result of construction activities (including dust generated on haul roads) to the satisfaction of the ECO and Local Authority

17.16 Solid Waste Management

No on-site burying or dumping of any waste materials, vegetation, litter or refuse must occur.

The Contractor must provide problem-animal and weatherproof bins with lids of sufficient number and capacity to store the solid waste produced on a daily basis. The lids must be kept firmly on the bins at all times. Bins must not be allowed to become overfull and must be emptied at least once a day. Waste from bins may be temporarily stored on Site in a central waste area that is weatherproof and scavenger-proof, and which the Engineer and the ECO has approved.

All solid waste must be disposed of off-site at an approved landfill site in terms of section 20 of the Environment Conservation Act (Act No. 73 of 1989). The Contractor must supply the ECO with a certificate of disposal. All hazardous waste must be disposed of at a licensed hazardous waste site.

The Contractor must make provision for workers to clean up the Contractor's camp and working areas on a daily basis so that no litter is left lying around and so that the site is in a neat and tidy state. The Contractor must remove from site the refuse collected at least once a week.

The Contractor must be responsible for the establishment of a refuse control system that is acceptable to the ECO.

Disposal arrangements must be made in advance and cleared with the ECO before construction starts.

17.17 Toilets & Ablution Facilities

The Contractor must provide suitable sanitary arrangements near the construction site for all site employees. A minimum of one toilet must be provided per 15 persons at each working area (station) or as stipulated in the Management plan.

The toilet must be within easy reach (max 300m) of the working area and be in good working condition and cleaned on a daily basis. Toilet paper must be provided. The toilets must be emptied on a weekly basis or when full or when instructed by the ECO on site.

Disposal arrangements must be made in advance and cleared with the ECO before construction starts. Sanitation provision and servicing must be to the satisfaction of the ECO. The Contractor must ensure that toilets are emptied prior to any builders' holidays, and/or weekends.

Toilets must be of a neat construction and must be provided with doors and locks and must be secured to prevent them blowing over. Toilets should be properly screened from the adjacent properties.

NB. NO BURYING OR BURNING OF ANY WASTE MATERIAL ON OR NEAR THE CONSTRUCTION SITE NOR ANYWHERE ON THE SURROUNDING PROPERTY IS PERMITTED.

17.18 Stockpiling

Any stockpiling of gravel, cut, fill or any other material including spoil must only be allowed in degraded areas or areas below the future cover of buildings and tar or paved parking surface. The Contractor must indicate the proposed areas for such operations and method of undertaking such operations in a Method Statement to be submitted to the ECO for approval before any such activity begins. Any area used for stockpiling and not covered by building development must be returned to at least the state they were in before stockpiling and it must be ensured that the erosion potential of these areas is not increased.

The Contractor must ensure that the material does not blow or wash away or mix with each other. If the stockpiled material is in danger of being washed or blown away, the Contractor must cover it with a suitable material, such as hessian, netting or plastic.

17.19 Preparation of Building Material

The Contractor must ensure that any delivery drivers are informed of all procedures and restrictions (including "no go" areas) required to comply with the Specifications. The Contractor must ensure that these delivery drivers are supervised during off-loading, by someone with an adequate understanding of the requirements of the Specifications.

All manufactured and/or imported material must be stored within the demarcated area, and, if so required, out of the rain. All lay down areas outside of the construction camp must be subject to the Engineer and the ECO's approval in such a way as not to cause a nuisance or environmental damage.

All building materials are to be prepared at the batching plant, to enable the effects of cement and other substances, and the resulting effluent to be more easily managed.

It is essential that any imported material i.e. base material for road works, building sand, bedding base sand for pipe / cable lines etc. must be screened and of which the origins must be identified prior to arriving at the receiving environment, and this must be approved by the Engineer / ECO.

17.20 Discharge of construction water

Potential pollutants of any kind and in any form must be kept, stored, and used in such a manner that any escape can be contained and the water table not endangered. This particularly applies to water emanating from runoff from fuel depots/workshops/truck washing areas. Wash down areas must be placed and constructed in such a manner to ensure that the surrounding areas are not polluted.

Contaminated water includes water that is carrying excess sediment due to construction activities. The contractor, being responsible for the construction and effective containment and maintenance of settlement ponds must ensure that the surrounding environment is not adversely affected as a result of construction activities. Contaminated water storage facilities must not be allowed to overflow and appropriate protection from rain and flooding must be implemented. Contaminated water that is removed from site must be disposed of at a facility approved by the ECO and Local Authority. No contaminated water that does not meet the water quality standards and criteria under the National Water Act may be released into a natural system, whether it is to surface or groundwater

All cement effluent from mixer washings, and run-off from batching areas and other work areas must be contained in suitable sedimentation ponds. Sedimentation ponds must be allowed to dry out on a regular basis to allow for solid material to be removed. This material must be disposed of in a suitable manner, depending on the nature of the material, and to the discretion of the ECO.

17.21 Treating (flushing / testing) of Pipelines (if required)

Cleaning/sterilization/flushing of pipelines shall not impair surrounding environmental quality. Any contaminated water from such activities shall be contained until it complies with the standards contained in the National Water Act or other relevant Acts, as well as those laid down by the Local Authority. Alternatively, it shall be removed from site and disposed of at an approved waste disposal site.

17.22 Contractors Temporary Camping site and Eating Areas

The Contractor must designate eating areas for the approval of the ECO, which must be clearly demarcated. No eating of meals must take place outside these designated areas without the approval of the Contractor/ECO. The feeding or leaving of food for animals is strictly prohibited. Sufficient waste bins must be present in this area and emptied regularly.

The contractor must supply cooking facilities that are suitable for the environment and are not liable to cause the outbreak of fires.

No overnight camping/stay on site allowed. If overnighting is necessary for security purposes then it must be cleared with the ECO on site.

No washing in dams or streams are allowed.

17.23 Traffic, Access Routes and Haul Roads

The Contractor must control the movement of all vehicles and plant including that of his suppliers so that they remain on designated routes. In addition, such vehicles and plant must be so routed and operated as to minimise disruption to regular users of the routes not on the Site. On gravel or earth roads on Site, the vehicles of the Contractor and his suppliers must not exceed a speed of 25 km/h. On public roads adjacent to the Site, vehicles will adhere to municipal and provincial traffic regulations.

As far as possible, any access routes/haul roads must utilise existing roads or tracks. Any new access roads/haul roads must be designed so as to minimise erosion and must run across slopes and not directly up-hill.

All temporary access routes must be rehabilitated at the end of the contract to the satisfaction of the ECO.

Method Statements for any new access/ haul roads must be submitted

17.24 Site Clean Up and Rehabilitation

The Contractor must ensure that all structures, equipment, materials and facilities used or created on site for or during construction activities are removed once the project has been completed. The construction site must be cleared, and cleaned to the satisfaction of the ECO.

Immediately after the demolition of the campsite, the contractor shall restore the site to its original state, paying particular attention to its appearance relative to the general landscape.

The contractor's procedure for rehabilitation shall be approved by the ECO and Engineer.

This shall include but not be limited to:

- Earthworks to reinstate the physical characteristics of the site. Here attention to the natural vertical and lateral heterogeneity in landform shall guide the reinstatement of natural areas
- Replacement of topsoil material – care shall be taken to ensure that the same material that was removed from each area is replaced there, since this will carry the seed complement appropriate for re-establishment of each plant community type
- Final landscaping by machine, but landscaping by hand may be required in many areas under rehabilitation
- Re-seeding and / or replanting of rehabilitated areas

The Contractor shall not be permitted to use fertilisers or pesticides

It is imperative that any potential erosion problems are addressed. This may require subsequent site visits to monitor the efficacy of erosion control measures.

17.25 Land Management

Vehicles accessing the construction site must be made aware of driving in hazardous road conditions, sharp bends, narrow roads, bad weather, or near children or domestic animals along the road.

Vehicle movements should be kept to a minimum during rain to avoid damage to access roads.

No fences or gates on the relevant construction property must be damaged. All access gates to the property (construction site) to be kept closed at all times to prevent domestic and or wild animals from getting out. Access by unauthorised personnel should be controlled. The access gates to the construction areas must always be closed.

Soil erosion must be prevented at all times along the access roads and around construction areas.

No bush or brush clearing to be undertaken without the knowledge of the ECO / Engineer.

17.26 Socio-Cultural Issues

Adjacent and nearby Property owners or property occupiers must be treated with respect and courtesy at all times.

The cultural lifestyles of the communities living in close proximity to the construction areas must be respected.

17.27 Additional Associated Installations

17.27.1 Construction of new access roads (if required)

In the event of the construction of a new access road to the site, the access route is pre-determined prior to the On Site Start-Up Meeting.

Discussions pertaining to the “Access Road Start-Up Meeting” include the following but not restricted to;

- EMP and contents thereof
- Demarcation of the access route
- Containment of soil and rock from excavations
- Transit areas for excess excavation road materials
- Stockpile areas for sub-base and surface material
- Earthmoving machinery for specific tasks
- Mandatory Site Equipment
- Placing of on-site toilet facilities
- Specific requests from land-owners
- Dust Pollution
- Post construction erosion methods
- Site Specific agreements emanating from the Start-Up Meeting

18 MANAGEMENT SPECIFICATIONS (OPERATIONAL PHASE)

The most important part of the operational phase will be to ensure that the site is meticulously maintained and that the operations are carefully monitored. The applicant will remain overall responsible for the environmental performance of the site and must be aware of the legal requirements and obligations. The applicant must also be aware of the legal action that can be taken against him as a person with regards to negligence leading to environmental pollution.

This section of the Environmental Management Programme (EMP) is required to address the protection and ongoing management of the natural resources both on and off the site during the operational stages of the development to guide the Property Owner/Property Owners Association (POA) to manage activities on site on an ongoing basis in an environmentally sustainable manner. The overarching goal is to ensure that undue or reasonably avoidable impacts of the proposed development are avoided and that positive impacts of the development are enhanced.

The following points of action must be considered during the operational phase (maintenance activities) to avoid any environmental impacts:

- All maintenance activities will consider the environment.

- The POA will ensure that any maintenance activities that are undertaken are carried out in line with the specifications and recommendations set out in section 17 of this document.
- Any incidents that have resulted in a large negative impact on the environment are to be reported to DE&NC.

19 TERMS AND ABBREVIATIONS:

The following definitions and abbreviations are applied:

CMC	Cape Metropolitan Council
DEA&T	Department of Environmental Affairs and Tourism
DE&NC	Department Environmental and Nature Conservation (Northern Cape)
DWA&F	Department of Water Affairs and Forestry
EA	Environmental Authorisation
EIA	Environmental Impact Assessment
EMP	Environmental Management Programme, although the term Environmental Management <i>Plan</i> is often used interchangeable with <i>Programme</i> .
EMS	Environmental Management System
IEM	Integrated Environmental Management
*ECO	Environmental Control Officer
*ESO	Environmental Site Officer
ER	Engineer's Representative
I&AP	Interested & Affected Party
OSSM	On Site Start-Up Meeting
POA	Property Owners Association
SAHRA	South African Heritage Resources Agency

Environment means the surroundings within which humans exist and that are made up of:

- the land, water and atmosphere of the earth;
- micro-organisms, plant and animal life;
- any part of the combination of the above two bullets and the interrelationships between them;
- the physical, chemical, aesthetic and cultural properties and conditions of the foregoing that influence human health and well-being.

Potentially hazardous substance is a substance, which, in the reasonable opinion of the Engineer, can have a deleterious (detrimental) effect on the environment.

Method Statement is a written submission by the Contractor to the Engineer or relevant responsible person such as the Project Leader, in response to the Specification, or a request by the Engineer/Project Leader, setting out the plant, materials, labour, method, responsible persons and timeframe that the Contractor proposes using to carry out an activity, identified by the relevant specification or the Engineer/Project Leader when requesting the Method Statement, in such detail that the Engineer/Project Leader is enabled to assess whether the Contractor's proposal is in accordance with the Specifications and/or will produce results in accordance with the Specifications.

The Method Statement shall cover applicable details with regard to:

- construction procedures;
- materials and equipment to be used;
- getting the equipment to and from site;
- how the equipment/ material will be moved while on site;
- how and where material will be stored;
- the containment (or action to be taken if containment is not possible) of leaks or spills of any liquid or material that may occur;
- timing and location of activities;

- compliance/non-compliance with the Specifications;
- any other information deemed necessary by the Engineer/Project Leader.

reasonable means, unless the context indicates otherwise, reasonable in the opinion of the Engineer/Project Leader after he has consulted with a person, not an employee of the client, suitably experienced in "environmental implementation plans" and "environmental management plans", both as defined in the Environmental Management Act (Act No 107, 1998).

solid waste means all solid waste, including construction debris, chemical waste, excess cement/concrete, wrapping materials, timber, tins and cans, drums, wire, nails, food and domestic waste (e.g. plastic packets and wrappers).

contaminated water means water contaminated by the Contractor's activities, e.g. concrete water and runoff from plant/ personnel wash areas.

construction site means the area influenced and affected by the construction activities or under the control of the Contractor, often referred to as "the Site".

contractor's camp means the designated and suitably demarcated areas on the Site within which all site offices and staff facilities are situated and within which equipment will be stored, for instance, borrow areas, batching plant, crusher plant, sand washing plant, workshop, offices, rest areas, ablution areas, etc., whichever is applicable.

construction means the period of the project during which the actual works are carried out, deemed to include site establishment, site preparation, the works, maintenance period and decommissioning.

precautionary principle means the basic principle, that when in doubt or having insufficient or unreliable information on which to base a decision, to undertake actions that will have minimum risk.

Applicant	The person/organisation (usually the holder of the Environmental Authorisation) with rights to undertake the development of the site.
Audit/Monitoring	Regular inspection and verification of construction activities for degree of compliance to the Environmental Management Programme.
Bund	Enclosure under/around a storage facility to contain any spillage – the storage capacity of the bund must be 120% of the total capacity of the possible spillage amount
Batch plant	Machinery used on site for the large-scale mixing and production of concrete or plaster and associated equipment and materials.
Construction phase	The construction phase period of a cellular communications Construction site is defined as from the commencement of site establishment up to and including the practical site handover.
Contract	An accepted offer to execute specified work within a stated time for a monetary reward. It takes the form of all the documents and drawings issued when tenders are invited (in which the nature and quantity of the work to be executed are set out), the schedules of which documents have been priced by the contractor for completion within a stated time, and the acceptance, in writing, of the Contractor's price) (source: SABS 0120; 1986). OR The General Conditions of Contract and Special Conditions, Specifications, Drawings, Tender, written records of matters agreed after the submission of the Contractor's tender, Letter of Acceptance and Agreement, together with other documents which the parties have agreed in writing shall form part of the Contract and such amendments or additions to the Contract as may be agreed in writing between the parties (source: GCC, 1990).
Contractor	The natural or juristic person or partnership whose tender has been accepted by, or on behalf of the Employer and where applicable, includes the Contractor's heirs, executors, administrators, trustees, judicial managers or liquidators, as the case may be.
Declaration of Understanding	Form that is signed by all contractors involved in the construction works of their understanding and acceptance of the CEMP and site-specific additions to the CEMP.
Development site	The boundary and extent of development works and infrastructure.

Developer	The developer is the person/body responsible for the development of the project and could be the same as, or different to the Applicant.
Emergency	A situation requiring immediate action and where failure to implement appropriate actions timeously may result in environmental damage.
Engineer	A person who represents the Applicant and is responsible for the technical, environmental and contractual implementation of the works to be undertaken.
Engineer's Representative	<p>The person appointed from time to time by the Engineer in terms of the General Conditions of Contract. The Engineer's Representative shall:</p> <ul style="list-style-type: none"> • Observe the execution of the Works, examine and test materials and workmanship and receive from the Contractor such information as he shall reasonably require. • Have the authority: <ul style="list-style-type: none"> ○ Given to him by any provisions of the Contract. ○ Given to him by the Engineer. ○ To deliver to the Contractor oral or written communications from the Engineer. ○ To receive on behalf of the Engineer oral or written communications from the Contractor. <p>The powers and authority of the Engineer's Representative would be subject to certain conditions.</p>
Environmental Awareness Course	An environmental education course for the Contractors management staff and labour force which informs them of the requirements of the EMP.
Environmental Completion Statement	A report document submitted to the relevant authority showing that the EMP environmental controls were appropriately implemented on a project.
Environmental Completion Audit	Similar to an Environmental Completion Statement but it is more detailed and will contain detailed information regarding controls and their effectiveness. This document would be required for large projects normally where a professional environmental scientist was appointed as the ECO.
Environmental Management Programme:	<p>A programme for managing potential impacts identified during the approval process. It could consist of one or more of the following components, depending on necessity dictated by the nature of the development:</p> <ul style="list-style-type: none"> • Standard Environmental Specification • Detailed Environmental Specification • Guideline documents and tools for implementation by the different role players • The Environmental Education Course • Standard Revegetation Specification • Detailed Revegetation Specification <p>As mentioned earlier, the term <i>Environmental Management Plan</i> is often used interchangeable with <i>Environmental Management Programme</i>, and for the purposes of this document will be assumed to have the same definition.</p>
Environmental Authorisation	Environmental Authorisation issued by DEADP for the authorisation to commence construction under certain environmental compliances.
*ESO (Environmental Site Officer)	Designation is reserved for suitably qualified environmental site managers, who are to be appointed by the Engineer, and are mainly associated with large and complex developments.
*ECO (Environmental Control Officer)	Designation is reserved for suitably qualified authority or officer acting on their behalf. The ECO is usually a professionally registered Environmental Scientist.
Environmental Specification	For the purposes of this study, this designation is reserved for the combination of the Standard Environmental Specifications and the Detailed Environmental Specifications.
ECO vs. ESO	ECO might also mean the ESO but the ESO does not mean the ECO. The ESO is responsible to the ECO
General Conditions of Contract	A document that sets out the general rights and obligations of the parties to a contract, on such matters as sureties, quality of work, program, supervision, insurance, co-operation with others, provision of plant, material and labour, the regulation of wages, samples, tests, examination, commencement and completion of work, penalties for delay, requirements for maintenance, methods of dealing with defects, variations, measurements and payments, and the settlement of disputes. In South Africa, the most widely accepted general conditions of contract for general civil engineering works is the SAICE General Conditions of Contract for Works of Civil Engineering Construction (sixth edition, 1990).

No Go Areas	Areas identified as being environmentally sensitive in some manner and delineated on plan, and on the site with pegs or fencing and which are out of bounds to unauthorised persons. Authorisation must be obtained from the Engineer/Project Leader prior to entry.
Particular Specification	A specification that covers construction work involving a specialist type of operation that is not adequately covered in a Standardized Specification.
Project Specification	A specification that describes the Works in general terms (including the locality, the conditions on Site, the extent of the Contract, the construction programme, and the service facilities available and to be taken into consideration) and that may include clauses that amend or amplify or add to any requirement(s) of a standardized specification (or standard or particular specification) in the sequence in which the requirements and specifications occur in the contract documents.
Reference Group:	The funding body and major role-players (including the environmental authorities) who may resolve environmental disputes, which could arise between the different role-players on site.
Revegetation Specification Site	This designation is reserved for the combination of the Standard Revegetation Specifications and the Detailed Revegetation Specifications. The boundary and extent of development works and infrastructure, including any areas off the main site on which works are to be carried out in order to allow the development to proceed successfully.
Specification	A technical description of the standards of materials and workmanship that the Contractor is to use in the Works to be executed, the performance of the Works when completed and may include the manner in which payment is to be made. It is essential for the specifications to be clear, concise and to the point, and use should not be made of ambiguous terms or phraseology.
Standard Specification	An established or accepted model specification. In South Africa the most widely accepted standard specification for general civil engineering works is the set of SABS 1200 Standardized Specifications (refer to definition below), however, other Standard Specifications such as BS, AAWA and Standard Water Specifications are also used.
Standardized Specification	A specification that is published by the South African Bureau of Standards (SABS) and that so covers a particular class of civil engineering construction that the specification is generally applicable throughout the Republic of South Africa.
Top material	This refers to any surface material in the construction area, whether it is soil, fine material or stones including vegetation.
Works	The works to be executed in accordance with a contract.

20 APPENDICES:

Appendix 1: SITE START-UP REPORT

Appendix 2: PENALTIES FOR NON-COMPLIANCE

Appendix 3: DECLARATION OF AGREEMENT

Appendix 4: INFORMATION ON METHOD STATEMENTS

Appendix 5: EXAMPLE OF METHOD STATEMENT

Appendix 6: CONTRACTOR/S REPRESENTATIVE: ENVIRONMENTAL DAILY CHECKLIST

Appendix 7: BASIC RULES OF CONDUCT

Appendix 8: ENVIRONMENTAL SITE DAILY REPORT/CHECKLIST

Appendix 9: ENVIRONMENTAL AUTHORISATION.

Appendix 10: RECOMMENDATIONS AS PER BASIC ASSESSMENT REPORT

Appendix 11: DRAWINGS (SEE BASIC ASSESSMENT REPORT).

Appendix 12: Other documents.

APPENDIX 1: START-UP REPORT

TO BE INCLUDED AFTER START-UP MEETING

APPENDIX 2: PENALTIES FOR NON-COMPLIANCE

PENALTIES FOR NON-COMPLIANCE

The contractors / sub-contractors must contact the ECO at any stage if unsure about any matter, or if a pollution incident occurs, or vegetation or animals are damaged.

ECO = Environmental Control Officer ESO= Environmental Site Officer

PHASE	Penalty for Non-compliance	
	Bottom range	Top Range*
PRE-CONSTRUCTION PHASE		
Construction area to be marked off before construction starts.		5000
The demarcated area must be maintained throughout the construction phase	500	1000
Site area for stock piling of building material must be demarcated	500	5000
Site area for storing of waste material must be demarcated	500	5000
Fencing off the construction site with mesh fencing of 1.8m, where necessary or other suitable material as agreed on by ECO	500	1000
Sitting of access road/s to be approved by ECO & demarcated with stakes before any construction starts (if applicable)		5000
Temporary route used for construction must be determined on site with ECO (if applicable)	1000	5000
Telecommunications & AC power routes must be determined with the ECO (if applicable)	1000	5000
Sensitive features that may be harmed must be clearly marked or demarcated.	500	2000
Vegetation that may not be removed must be clearly marked or demarcated.	500	5000
Contractor must make the Construction team and all sub-contractors aware of all environmental aspects that could lead to imposition of penalties	100	5000
Contractor to sign Declaration of understanding (DOU) before construction starts		5000
Contractor to assure that all subcontractors be informed and signed DOU	1000	5000
Method statements must be provided on request by the ECO. No work may commence until the Method Statement is accepted by the ECO and Engineer	1000	5000
CONSTRUCTION PHASE		
Information		
A copy of the EMP & Record of Decision with all the conditions of approval and the relevant Method Statements must be at site at all times.	200	5000
Construction crew behaviour		
Construction crews may not overnight on site.	200	5000
No amplified music allowed on site	100	200
Construction crew must stay within the demarcated construction area. (Applicable in sensitive sites)	50	500
Eating of meals only allowed in demarcated area	50	500
No pets permitted on site		100
Driving, Parking & Storing of machinery and vehicles are only allowed inside demarcated areas and existing roads	1000	5000
Machinery may only be used on the road and may not disturb the vegetation on the sides of the road except if cleared by ECO. Machinery used must be carefully considered to limit environmental damage	500	5000
No vegetation other than that agreed on may be damaged - i.e. no access to areas outside construction area.	500	2000
No individual may cause unnecessary damage to flora and fauna on, around or near the site	20	2000
No littering allowed (incl. cigarette butts)	50	500
Excavations		
No topsoil may be removed or altered outside the demarcated area		2000

and/or which was not specified.		
Commercial sources of sand, rock and gravel to be cleared with ECO	200	5000
All surplus material to be taken off-site and be disposed of at approved site	500	5000
Toilets		
Sufficient ablution facilities must be provided		3000
Toilets to be secured to prevent them from falling or blowing over.	100	1000
They must be serviced regularly, (according to the manufacturer's instructions) and kept clean.	100	1000
Everybody on site must make use of ablution facilities	50	1000
Fire Prevention		
All mandatory fire fighting equipment (as specified at start-up) must be on site at all times	500	4000
Fire fighting equipment to be in good working order and serviced.	500	2000
No fires, including cooking fires, allowed on site	1000	5000
Concrete & Cement Activities		
Wash-down site of Ready Mix delivery trucks must be pre-determined prior to commencement of the activity.	500	5000
Concrete may only be mixed within the boundaries of the bunding area or demarcated area and/or where was agreed on by the ECO.	500	5000
All excess cement & concrete mixes to be contained on construction site and removed from site when necessary or requested by the ECO	200	5000
Any cement / concrete spillage to be cleaned up immediately.	500	5000
Mixing and storage areas must be appropriately located in demarcated area or as agreed upon at the on-site Start-Up Meeting	500	1000
Dust pollution control		
Ensure that loose building material is covered to prevent dust pollution	100	1000
Water run-off		
Contamination of water bodies, rivers, dams or wetlands must be prevented at all cost	500	5000
Rainwater from construction & building site/s must be channelled, contained & allowed to dry out, so as not to transport any pollutants into the surrounding area. Temporary trenches, straw stabilising, brush cutting can be used	500	5000
Waste control		
Sufficient refuse bins must be placed on site	500	2000
Refuse bins must be cleaned on a regular basis	100	1000
General litter / building refuse must be cleaned up on a regular basis from the site	500	3000
Cement-contaminated water; paint; oil; cement slurries etc. must be stored in watertight containers or as agreed with ECO	500	5000
Store all refuse & waste material in wind & animal proof containers	100	1000
Waste must be disposed of at an official waste deposit site on a regular basis.	500	5000
The absence of or inadequate drip trays or bunding facilities	500	5000
Failure to address oil/fuel leaks from on-site machinery	200	5000
Herbicides		
No herbicides or pesticides whatsoever may be used.	200	2000
Construction road		
Road must be upgraded to prevent degradation and erosion of the road and surrounds.	500	5000
Power and Telecommunications supply		
Demarcate power supply route	500	5000
No vehicles to drive through vegetation unless authorised by ECO	500	5000
Storage of equipment may only take place at an area demarcated by the ECO.	500	5000
Working must be done in phases to prevent trampling of vegetation	N/A	
Use of generators and fuel powered equipment		
A watertight cover must be place under the power generator	500	5000

equipment to prevent accidental spillage of fuel & oil seeping into the soil.		
Drip tray must be able to take 120% of fuel on site	500	5000
All waste material generated from the use of this equipment must be contained and removed from the site	500	5000
Mobile fuel powered equipment must be well maintained and must not have any fuel or oil leaks.	200	5000
Soil Stabilisation		
Ensure that soil material for filling and stabilisation comes from a source that does not contain seeds alien to the area. The source must be cleared with the ECO.	100	2000
Rehabilitation		
Remove rocks and stones and stock pile in area recommended by ECO	500	5000
Remove all plants that can be used for rehabilitation and store on- or off-site in appropriate manner as agreed with ECO	200	5000
Removal of all old concrete and alien materials from site	500	5000
Site must be cleared of all waste and building material	500	5000

*(Large scale / repeated offence)

APPENDIX 3: DECLARATION OF UNDERSTANDING

DECLARATION OF UNDERSTANDING

I, _____

Representing _____

Declare that the conditions of the authorisation were brought under my attention and that I have read and understood the contents of the Environmental Management Plan (which includes all documents as per the Environmental Authorisation).

SITE: _____

Environmental Authorisation ref: _____

I also declare that I understand my responsibilities in terms of enforcing and implementing the Environmental Specifications as set out in the various documents for the aforementioned site.

I also undertake to inform all persons under my supervision of such specifications and contents of the documents.

Signed: _____

Place: _____

Date: _____

Witness 1: _____

Witness 2: _____

APPENDIX 4: INFORMATION ON METHOD STATEMENTS

INFORMATION ON METHOD STATEMENTS

Method Statements are to be completed by the person undertaking the work (i.e. the Contractor). The Method Statement will enable the potential negative environmental impacts associated with the proposed activity to be assessed.

The Method Statement can only be implemented once approved by the ECO.

The Contractor (and, where relevant, any sub-contractors) must also sign the Method Statement, thereby indicating that the works will be carried out according to the methodology contained in the approved Method Statement.

The ECO will use the Method Statement to audit compliance by the Contractor with the requirements of the approved Method Statement.

Changes to the way the works are to be carried out must be reflected by amendments to the original approved Method Statement; amendments require the signature of the ECO denoting that the changed methodology or works are necessary for the successful completion of the works, and are environmentally acceptable. The Contractor will also be required to sign the amended Method Statement thereby committing him/herself to the amended Method Statement.

This Method Statement **MUST** contain sufficient information and detail to enable the ECO to apply their minds to the potential impacts of the works on the environment. The Contractor will also need to thoroughly understand what is required of him/her in order to undertake the works.

THE TIME TAKEN TO PROVIDE A THOROUGH, DETAILED METHOD STATEMENT IS TIME WELL SPENT. INSUFFICIENT DETAIL WILL RESULT IN DELAYS TO THE WORKS WHILE THE METHOD STATEMENT IS REWRITTEN TO THE ER'S AND ESO'S SATISFACTION. The page overleaf provides a *pro forma* method statement sheet, which needs to be completed for each activity requiring a method statement in terms of the EMP.

APPENDIX 5: EXAMPLE OF METHOD STATEMENT

METHOD STATEMENT

CONTRACT:..... **DATE:**.....

PROPOSED ACTIVITY (give title of method statement and reference number):

WHAT WORK IS TO BE UNDERTAKEN (give a brief description of the works):

WHERE ARE THE WORKS TO BE UNDERTAKEN (where possible, provide an annotated plan and a full description of the extent of the works):

START AND END DATE OF THE WORKS FOR WHICH THE METHOD STATEMENT IS REQUIRED:

Start Date:

End Date:

HOW ARE THE WORKS TO BE UNDERTAKEN (provide as much detail as possible, including annotated maps and plans where possible):

Note: please attach extra pages if more space is required

DECLARATIONS

1) ENVIRONMENTAL CONSULTANT AND/OR ENVIRONMENTAL CONTROL OFFICER

The work described in this Method Statement, if carried out according to the methodology described, is satisfactorily mitigated to prevent avoidable environmental harm:

(Signed) (Print name)

(Signed) (Print name)

Dated: _____

2) PERSON UNDERTAKING THE WORKS

I understand the contents of this Method Statement and the scope of the works required of me. I further understand that this Method Statement may be amended on application to other signatories and that the ECO will audit my compliance with the contents of this Method Statement

(Signed) (Print name)

Dated: _____

3) APPLICANT/REPRESENTATIVE

The works described in this Method Statement are approved.

(Signed) (Print name) (Designation)

Dated: _____

4) APPROVING AUTHORITY

The works described in this Method Statement are approved.

(Signed) (Print name) (Designation)

Dated: _____

APPENDIX 6: CONTACTOR: ENVIRONMENTAL DAILY CHECKLIST

CONTACTOR/S REPRESENTATIVE: ENVIRONMENTAL DAILY CHECKLIST

SITE: _____

PHASE OF WORK AND % OF COMPLETION: _____

ENVIRONMENTAL ASPECT	YES/ NO (✓ or X)	COMMENTS
• How many workers are on site		
• All new personnel on site are aware of the contents of the EMP and have been through the environmental awareness course.		
• Contractor's camp is neat and tidy and the labourers' facilities are of an acceptable standard.		
• Sufficient and appropriate fire fighting equipment is visible and readily available.		
• Waste control and removal system is being maintained.		
• Refuse bins in place and maintained		
• Toilets are in place and clean		
• Demarcation and other fences are being maintained.		
• What machinery are on site		
• Drip trays are being utilised were there is a risk of incidental spillage		
• Bunds/ drip trays are being emptied on a regular basis (especially after rain).		
• No leakages (oil & fuel) are visible from construction vehicles		
• No go areas, remaining natural features and trees have not been damaged.		
• Dust control measures (if necessary) are in place and are effectively controlling dust.		
• Noise Control measures (if necessary) is in place and is working effectively.		
• Erosion control measures (if necessary) are in place and are effective in controlling erosion. (Access road, site areas etc.)		
• Stockpiles are located within the boundary of the site, do not exceed 2 m in height and are protected from erosion.		

Completed by:..... Sign:..... Date:.....

To be submitted at the end of each week to the Environmental Site Officer (ESO)

Received by:

Environmental Site Officer: :..... Sign:..... Date:.....

APPENDIX 7: BASIC RULES OF CONDUCT

BASIC RULES OF CONDUCT

The following list represents the basic Do's and Don'ts towards environmental awareness, which all participants in this project must consider whilst carrying out their tasks. These are not exhaustive and serve as a quick reference aid.

NOTE: ALL new site personnel must attend an environmental awareness presentation. Please inform your foreman or manager if you have not attended such a presentation or contact the ESO.

DO:

- USE THE TOILET FACILITIES PROVIDED – REPORT DIRTY OR FULL FACILITIES
- CLEAR YOUR WORK AREAS OF LITTER AND BUILDING RUBBISH AT THE END OF EACH DAY – use the waste bins provided and ensure that litter will not blow away.
- REPORT ALL FUEL OR OIL SPILLS IMMEDIATELY & STOP THE SPILL CONTINUING.
- DISPOSE OF CIGARETTES AND MATCHES CAREFULLY. (Littering is an offence.)
- CONFINE WORK AND STORAGE OF EQUIPMENT TO WITHIN THE IMMEDIATE WORK AREA.
- USE ALL SAFETY EQUIPMENT AND COMPLY WITH ALL SAFETY PROCEDURES.
- PREVENT CONTAMINATION OR POLLUTION OF STREAMS AND WATER CHANNELS.
- ENSURE A WORKING FIRE EXTINGUISHER IS IMMEDIATELY AT HAND IF ANY "HOT WORK" IS UNDERTAKEN e.g. welding, grinding, gas cutting etc.
- REPORT ANY INJURY OF AN ANIMAL.
- DRIVE ON DESIGNATED ROUTES ONLY.
- PREVENT EXCESSIVE DUST AND NOISE.

DO NOT:

- REMOVE OR DAMAGE VEGETATION WITHOUT DIRECT INSTRUCTION.
- MAKE ANY FIRES.
- INJURE, TRAP, FEED OR HARM ANY ANIMALS – this includes birds, frogs, snakes, lizards etc.
- ENTER ANY FENCED OFF OR MARKED AREA.
- ALLOW CEMENT OR CEMENT BAGS TO BLOW AROUND.
- SPEED OR DRIVE RECKLESSLY
- ALLOW WASTE, LITTER, OILS OR FOREIGN MATERIALS INTO THE STREAM
- SWIM IN THE DAM.
- LITTER OR LEAVE FOOD LAYING AROUND

Notes:

1. Must any animals such as tortoises, chameleons or snakes be encountered then do not harm them. The ESO or ER must be contacted to remove these safely. The harming of any animal will result in disciplinary action.
2. Construction and heavy machine operators must be particularly sensitive to staying within access routes and prevention of unnecessary damage. Dust and noise is also of particular concern. Ensure that vehicles and machinery do not leak fuel or oils. Refuelling or maintenance must be done within the maintenance camp area only.
3. Alien plant clearing and control work teams must be closely supervised.

BASIESE GEDRAGSKODES

Die volgende lys vertenwoordige die Moets en Moenies vir omgewingsbewustheid wat alle deelnemers aan hierdie projek in ag moet neem tydens die uitvoer van hul take. Hierdie lys is nie volledig nie en dien slegs as 'n vinnige verwysing.

NOTA: ALLE nuwe terreinpersoneel moet 'n aanbieding ten opsigte van omgewingsbewustheid bywoon. Indien u nog nie so 'n aanbieding bygewoon het nie, lig asseblief u voorman of bestuurder in of kontak die Omgewings Terreinbeampte.

MOETS:

- GEBRUIK DIE BESKIKBARE TOILET-GERIEWE – RAPPORTEER VUIL OF VOL GERIEWE.
- MAAK U WERKPLEK SKOON VAN ROMMEL OF BOUROMMEL AAN DIE EINDE VAN ELKE DAG – gebruik beskikbare vullisdromme en verseker dat rommel nie rondwaai nie.
- RAPPORTEER ALLE BRANDSTOF- EN OLIE STORTINGS ONMIDDELIK – STOP VERDERE STORTING.
- WEES VERSIGTIG MET DIE WEGDOEN VAN SIGARETTE EN VUURHOUTJIES. (rommelstrooi is 'n oortreding.)
- BEPERK WERKAKTIVITEITE EN DIE STOOR VAN TOERUSTING TOT DIE ONMIDDELIKE WERKAREA.
- GEBRUIK VEILIGHEIDSTOERUSTING EN VOLDOEN AAN ALLE VEILIGHEIDS-MAATREËLS.
- VOORKOM BESOEDLING VAN STROME EN WATERBANE
- VERSEKER DAT 'N BRANDBLUSSEER IN WERKENDE TOESTAND BYDERHAND IS WANNEER "WARM" WERK VERRIG WORD bv. Sweis, wegslyp, gasny, ens.
- RAPPORTEER BESEERDE DIERE.
 - RY SLEGS OP AANGEWESSE ROETES.
- VOORKOM OORMATIGE STOF EN GERAAS.

MOENIE:

- PLANTEGROEI VERWYDER OF BESKADIG SONDER DIREKTE INSTRUKSIE NIE.
- ENIGE VURE MAAK NIE.
- ENIGE DIERE DOOD, BESEER, VANG OF VOER NIE, insluitende voëls, paddas, slange, akkedisse, ens.
- ENIGE OMHEINDE OF AFGESPERDE AREAS BINNETREE NIE.
- SEMENT OF SEMENTSASSE LAAT RONDWAAI NIE.
- VINNIG OF ROEKeloos BESTUUR NIE.
- ENIGE ROMMEL, AFVAL, OLIE OR ENIGE VREEMDE MATERIAAL IN STROME LAAT BELAND NIE.
- IN DIE DAM SWEM NIE.
- ROMMELSTROOI OF KOS LAAT RONDLÉ NIE.

Notas:

1. Indien enige diere soos skilpaaie, verkleurmannetjies of slange teëgekomp word, moet hulle nie beseer of dood nie. Kontak die OTB of RI om hulle veilig te verwyder. Die besering van diere sal lei tot dissiplinêre optrede.
2. Operateurs van konstruksie- en swaar masjiene moet veral versigtig wees om binne toegangsroetes te bly en om enige onnodige skade te voorkom. Verseker dat voertuie en masjiene nie olie of brandstof lek nie. Brandstofaanvulling en voertuigonderhoud mag slegs binne die onderhoudsarea gedoen word.
3. Streng toesig moet gehou word oor indringerplantbeheerspanne.

EZIPPHAMBILI EKUNYANZELEKILEYO UKUBA ZENZIWE

Zonke ezi zinto zilandelayo zizinto ekufuneka zenziwe nekufuneka zingenziwanga. Wonke umntu ofikayo kufuneka afundiswe ngemigaqo kupala. Needa yazisa iforman yakho ikuba awukhange uye kufundiswa.

IZINTO EMAZENZIWE

- SEBENZISA IZINDLU ZANGASESE, YAZISA XA KUKHO UMONAKALO.
- ZAMA UKUCOCA APHO UBUSEBENZA KHONA.
- SEBENZISA IMIGQOMO YENKUKUMA UNGAYEKI IPHAPHTIEKE.
- YAZISA XA UBONA IOIL ECHITHSKALAYO OKANYE IPETROL.
- CIMA LOZOLI CIGARETTE XA UGQIBIBILE UKUTSHAYA
- ZONKE IZIXHOBO USEBENZA ZIBUYISELE APHO ZIHLAKA KHONA XA UCGIBILE APHO ZIHLALA KHONA XA UGQIBILE UKUZISEBENZISA.
- ZISEBENZISE IZIKHUSELIXA UZINKIWE.
- SUKUGALELA IZINTO EMLANJENI.
- MASIBEKHO ISICIMA MLILO XAUSEBENZA NGOMLILO.
- YAZISA MSINYANE XA UBONE ISILWANYANA EZONZAKELEYO.
- XAUQHUBA ISITHUTHI HAMBA ENDLELENI QHA UNGAFATHULINJE.
- NAPHINA ZAMAUNGENZI THULI OKANYE INGXOLO XA USEBENZA.

EMAZINGENZIWA

- SUKUSUSA NESIPHINA ISITYALO UNGAKHANGE UXEDELWE
- SUKWENZA MLILO NOKUBA SEKUBANDA
- AMAGQARA UKUBULALA IZILWANYANA NOKUZIFIDA AKUVUMELEKANGA
- SUKUNGENA XA KUVALIWE NGAPHANDLE KWE MVUME
- INGXOWA ZESAMENTE MAZINCEDWE ZINGALAHLWA NJE
- SUKUQHUBA NGESANTYA ESIPHAKAMILEYO
- SUKUGALELE NAYIPHI INTO PHAYA EMLANJENI
- SUKUQUBHA EDAMENI Q OQOSHA YONK INKUKUMA

APPENDIX 8: ECO/ESO DAILY REPORT/CHECKLIST

ECO / ESO SITE VISIT CHECKLIST / REPORT:

PROJECT NAME: DATE

PROJECT & PHASE: LOCATION

ENVIRONMENTAL ASPECT	1-3 NA	COMMENTS
<p>Note: 1 = Poor, 2 = Average, 3 = Good NA = Not Applicable</p>		
<p>DEMARICATION</p> <p>METHOD STATEMENT</p> <p>Boundaries of "no go" areas, construction sites, offices, temporary storage areas as well as labourer's facilities must be demarcated (EMP and ECO requirements) and maintained for the length of the construction period.</p>		
<p>NO-GO AREAS/PROTECTION OF FAUNA & FLORA</p> <p>Identified "No-Go Areas", remaining natural veld and indigenous- or significant trees are protected features and must be demarcated for protection from construction damage (including secondary impact).</p> <p>All areas outside of the demarcated construction sites and access roads to be regarded as NO-GO areas unless otherwise agreed upon with the client and ECO.</p> <p>All flora identified to be rescued must be removed and placed in an area specifically allocated and taken care off until re-used in pre-approved way.</p> <p>Identified areas with significant vegetation must be protected as NO-GO areas.</p>		
<p>CLEARING OF VEGETATION & TOPSOIL REMOVAL</p> <p>METHOD STATEMENT</p> <p>Before any construction or earthworks, topsoil must be stripped (>150mm) and stockpiled for rehabilitation/ landscaping. Stockpiles: must be protected (may not blow or wash away or gets compacted) and stored separately.</p> <p>may not be moved further than 50m or mixed with any other soil.</p> <p>must be convex and should not exceed 2m in height.</p> <p>In addition:</p> <p>Cleared areas must be stabilized.</p> <p>Burning or burying of cleared vegetation is prohibited, but may be used for mulch or slope stabilisation on site.</p>		
<p>STOCKPILING</p> <p>METHOD STATEMENT</p> <p>Top- and subsoil's from trenches must be located within site boundaries, stabilised and may not exceed 2m in height.</p>		
<p>TEMPORARY STORAGE FACILITIES</p> <p>METHOD STATEMENT</p> <p>Must be demarcated, organised, neat and tidy and of acceptable standards.</p>		
<p>CONSTRUCTION CAMP & SITE OFFICES</p> <p>METHOD STATEMENT</p> <p>Must be demarcated, organised and free of day-to-day litter (maintaining good housekeeping standards).</p>		

ENVIRONMENTAL ASPECT	1-3 NA	COMMENTS
<p>Note: 1 = Poor, 2 = Average, 3 = Good NA = Not Applicable</p>		
<p>FUEL STORAGE</p> <p>METHOD STATEMENT</p> <p>Fuel storage areas must be situated within the demarcated construction camp site (or an area approved by the ECO).</p> <p>Bunds must be built (EMP and ECO requirements) around larger fuel storage areas (accidental spillages).</p> <p>Drip trays must be used (in accordance with EMP) at all fuel and oil storage and refilling sites and must be cleaned regularly, especially after rain.</p>		
<p>LABOURER'S FACILITIES</p> <p>METHOD STATEMENT</p> <p>Facilities must be of acceptable standards suitably demarcated, well maintained, neat and tidy and with adequate ablution facilities.</p>		
<p>ENTRANCE AND HAUL ROADS</p> <p>METHOD STATEMENT</p> <p>Only approved entrance and haul roads may be used (existing roads and infrastructure). No new roads or parking areas may be developed without written approval from the ECO.</p>		
<p>MANDATORY SITE EQUIPMENT</p> <p>METHOD STATEMENT</p> <p>Mandatory site equipment must be in place, well maintained and in accordance with EMP and ECO requirements.</p> <p>Sufficient refuse bins must be on site (well placed and conspicuous) and must be cleaned regularly.</p> <p>Fire extinguishers must be readily available, maintained and functional.</p> <p>Drip trays must be used (in accordance with EMP) at all fuel and oil storage and refilling sites and must be cleaned regularly, especially after rain.</p> <p>Toilets and sanitation facilities must be kept clean neat and hygienic (toilet paper must be available).</p>		
<p>WASTE CONTROL</p> <p>METHOD STATEMENT</p> <p>The contractor is expected to control all construction related waste material and general litter on actual construction sites and its immediate surroundings.</p> <p>Waste management must be in accordance with the EMP, of acceptable standards, with regular removal of general waste, hazardous waste as well as construction waste (e.g. concrete waste and spoil).</p>		
<p>CEMENT MIXING & BATCHING AREAS</p> <p>METHOD STATEMENT</p> <p>Mixing areas must be approved by the ECO, suitably demarcated and may not result in pollution.</p> <p>Polluted cement water may only be released into sedimentation ponds.</p> <p>Sedimentation ponds must be maintained and cleaned regularly (and</p>		

ENVIRONMENTAL ASPECT	1-3 NA	COMMENTS
Note: 1 = Poor, 2 = Average, 3 = Good NA = Not Applicable		
reinstated after use).		

ENVIRONMENTAL ASPECT	1-3 NA	COMMENTS
<p>Note: 1 = Poor, 2 = Average, 3 = Good NA = Not Applicable</p>		
<p>CONSTRUCTION VEHICLE MAINTENANCE</p> <p>METHOD STATEMENT</p> <p>Construction vehicles must be in good working order and well maintained to prevent oil and fuel leakages and to reduce noise levels.</p> <p>Maintenance areas must be approved by ECO.</p> <p>Refuelling must be done in accordance with the EMP, using drip trays.</p>		
<p>HEAVY EARTHMOVING EQUIPMENT</p> <p>Construction vehicles and equipment may only operate <u>within</u> the demarcated site boundaries (and approved access roads), especially heavy earthmoving vehicles.</p>		
<p>DUST CONTROL</p> <p>METHOD STATEMENT</p> <p>Adequate control measures must be in place to prevent dust pollution as a result of construction activities (especially with regard to entrance-, haul roads and exposed surfaces).</p> <p>Areas of concern must be watered regularly during construction AND periods of strong winds, BUT must take water saving into account.</p>		
<p>EROSION CONTROL</p> <p>METHOD STATEMENT</p> <p>Erosion resulting from works must be controlled.</p> <p>Temporary and permanent drainage works must be maintained.</p> <p>Erosion damage and damage in drainage courses must be reinstated.</p>		
<p>NOISE CONTROL</p> <p>METHOD STATEMENT</p> <p>Effective noise control measures must be in place and acceptable working hours must be kept (deviations must be approval by the ECO).</p>		
<p>ENVIRONMENTAL CONDUCT</p> <p>Environmental conduct of construction personnel must be acceptable (e.g. no burning or burying of refuse; no littering and no cement bags or other construction waste material lying around).</p>		
<p>ARCHAEOLOGICAL & HERITAGE FINDS</p> <p>METHOD STATEMENT</p> <p>Should any archaeological or heritage remains be exposed during excavations or any activity on site, these must immediately reported to The site agent/engineer, the ECO HWC or SAHRA.</p>		
<p>REHABILITATION</p> <p>METHOD STATEMENT</p> <p>On completion of the project or phase, all areas impacted by the construction activities must be reinstated and/or rehabilitated to the satisfaction of the ECO with emphasis on the following:</p> <p>Site offices must be removed and the areas rehabilitated or reinstated to the satisfaction of the ECO.</p> <p>Labourer's facilities must be removed and the areas rehabilitated or</p>		

ENVIRONMENTAL ASPECT	1-3 NA	COMMENTS
Note: 1 = Poor, 2 = Average, 3 = Good NA = Not Applicable		
<p>reinstated to the satisfaction of the ECO.</p> <p>All construction site areas must be rehabilitated or reinstated to the satisfaction of the ECO.</p> <p>All temporary fencing and demarcation must be removed and the areas reinstated to the satisfaction of the ECO.</p> <p>Temporary storage areas must be rehabilitated or reinstated to the satisfaction of the ECO.</p> <p>All remaining construction material must be removed and the areas rehabilitated or reinstated to the satisfaction of the ECO.</p> <p>Any additional disturbed areas must be rehabilitated or reinstated to the satisfaction of the ECO.</p>		
<p>ADDITIONAL METHOD STATEMENTS</p> <p>Method statements must be submitted and approved before commencement of the works and must be available at the site offices.</p>		
<p>ENVIRONMENTAL CHECKLIST</p> <p>The contractor must ensure that the weekly environmental checklist is completed at the end of each week and it must be available at the site offices.</p>		
<p>SPOT FINES & PENALTIES</p> <p>Spot fines and penalties must be recorded and documented by the ECO (in accordance with the EMP).</p>		
<p>FIXED POINT PHOTOS</p> <p>Photographs must be taken by the ECO, Site Engineer and or Site Manager, prior to, during and immediately after construction as visual reference. These photographs must be stored with other records relating to the EMP.</p>		

ECO:

APPENDIX 9: RECORD OF DECISION.

APPENDIX 10: RECOMMENDATIONS AS PER BASIC ASSESSMENT REPORT

APPENDIX 11: DRAWINGS

APPENDIX 12: ANY OTHER RELEVANT DOCUMENTS