

9/2/032/0004

SCOPING REPORT

**ENVIRONMENTAL IMPACT STUDY
FOR A CHANGE IN LANDUSE**

ON

ERF 5686, ROSEDALE

UPINGTON



Omgewingsimpakstudies

Tweedelaan 13 Oosterville, Upington 8801
Tel / Faks (054) 332 2781

NOVEMBER 2006

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SECTION A**1. GENERAL INFORMATION****1.1 Applicant information**

Applicant: //Khara Hais Municipality

Address: Private Bag X 6003
Upington
8800

Telephone: (054) 332 5911

Fax: (054) 332 1762

Site visits: 10 August 2006

DTEC - Mr R Moseki

MEG - M.E Geldenhuys

1.2 Landowner information

Landowner: //Khara Hais Municipality

Address: Private Bag X 6003, Upington, 8800

1.3 Site information

As can be seen in Figure 2, the site is bordered to the north and east by existing residential properties and to the south by the Rosedale Police station. Bordering the site on the west is a Community hall as well as a small shopping centre together with existing single residential units.

Plot number: Erf 5686, Upington.

Magisterial district: Gordonia.

Local authority: //Khara Hais Municipality

Co-ordinate: 28° 27' 26,9 south

29° 12' 36,3 east

SECTION B

PROJECT DESCRIPTION

2.1 Background and purpose of the project

During the Integrated Development Process (IDP) a need for centralized land for the development of economic erven was established. In order to provide for this need, //Khara Hais Municipality did a survey to determine which open areas will be suitable for developments of this nature. The result of this survey, now forms part of the approved IDP of //Khara Hais Municipality and will serve as a guideline for future development. Erf 5686, which is currently an undeveloped open area situated within an existing residential area, was identified during the IDP process and made available for an economic housing development. The site under discussion as indicated for the development is situated in a mainly residential area but also in close proximity of associated land uses such as a police station, community hall, and businesses (Figure 2).

The site currently identified for the development of economic housing, is presently vacant and zoned as Institutional zone I. In order to proceed with the necessary re-zoning, the impact study must be completed as is required by the Department of Tourism, Environment and Conservation.

2.2 Nature and extent of the proposed development

According to the Spatial Development plan of //Khara Hais Municipality which also forms part of the IDP, one of the objectives of the council is to facilitate the integration of the town in order to densify the town. This will be achieved by the infilling of vacant land between existing landuses within the municipal area, according to the guidelines as set out in the IDP. The proposed development will therefore entail the development of ± 100 single residential erven on Erf 5686 which is approximately 7ha in size.

2.3 Alternative sites considered

During the Integrated Development Planning process (IDP), as approved by Council in March 2005, the area under discussion was identified for developments of this nature. This development is therefore in accordance with the spatial development framework for //Khara Hais Municipality. The IDP, together with the development proposals such as these was approved by the different Ward Committees and the IDP Forum which also consisted out of Councillors and community members.

SECTION C

3. EXISTING ENVIRONMENT AND SITE INFORMATION

3.1 Topography

The proposed site has a general incline in a south-westerly direction. The region being applied for, has a moderate incline of approximately 1:40. No outstanding topographical features are to be found on the site as it has in the past been levelled by the City Council for future development.

3.2 Climate

Due to the low rainfall, dry climate and high temperatures that are experienced in the area, high levels of evaporation takes place. The wind-rose for October and January (spring and summer) indicates that the prevailing winds during these two quarters originate from a north and north-north-westerly direction. The mentioned wind-rose further shows that, although the said winds are not strong, they are of a long lasting nature. During winter months, strong south-west and south-south western winds are experienced although they are not of a long lasting nature.

3.3 Fauna and flora

The entire terrain is characterised by disturbed natural veld with footpaths crossing it at several places. During a visit to the terrain only grass and weeds were found. Due to the history of the site and extensive earthworks in the past, the vegetation is not considered worthy of conservation and therefore it does not limit development of the terrain.

3.4 Geology and soil conditions

The deeper lying geological formations of the region consist primarily of Namaqualand Mobile Belt gneiss, granite and quartz sporadically disturbed by

pegmatic invasions. The surface soil consists primarily of weathered gneiss with a concentration of quartz sands in the dry river courses. In general, the geology and nature of the soil can be described as hard, though typical of the region and suitable for normal urban development.

3.5 History of ecological and natural disasters

Except for the floods in the Orange river region during 1974 and 1988 which did not affect the application area, no other registered ecological or natural disasters have occurred in the immediate application area.

3.6 Land use patterns and trends

The site is situated in an area bordered by existing single residential units, a police station, community hall and businesses. Further to the west is a clinic and schools. Within a radius of 400 - 600 metres the following landuses are to be found: a police station, a public open space/developed park, businesses, clinic community hall and single residential properties. All of these landuses complements the proposed landuse and therefore makes it more attractive for potential developers(Figure 2).

3.7 Aesthetic characteristics

As previously mentioned, the surrounding area mainly has a residential character. Due to this fact the development will not have a negative influence on the aesthetic value of the area.

SECTION D

4. DETAILS OF THE DEVELOPMENT

4.1 Nature of the proposed development

The site is approximately 7ha in size which includes the portion planned for subdivision. The present zoning of the land is Institutional I and after re-zoning and subdivision, the erf will be used for the development of single residential units, consisting out of ± 100, erven of approximately 600 - 800m² each.

4.2 Estimates of liquid effluent, solid waste and gaseous emissions

Liquid Effluent - the only possible liquid effluent that will be generated on the site is storm water during rains. The detail of how this aspect will be dealt with will be discussed under par. 3.6.3 of this report.

Solid Waste - The solid waste will be restricted mainly to normal household waste after the completion of the project. Removal of household refuse will coincide with the existing service to the greater Upington.

Gaseous emissions - Due to the nature of the project, no gaseous emissions will be generated on the site as a result of this development.

4.3 Expected volume of water required

Water will be used for normal construction purposes and human consumption. The individual sites will be supplied with water by being incorporated into the existing system currently in use in Upington. The Municipality will make this service available to future owners.

After completion of the project, residents will make use of the water for normal human consumption and associated purposes only. No abnormalities in this regard are foreseen.

4.4 Estimated time of commencement and completion of construction

Once the environmental impact study has been approved the applicants may commence with the re-zoning and subdivision of the area. After completion of the rezoning and subdivision of the property, construction work will start within one year and be finished by the end of the following year.

4.5 Number of constructional and operational employees

The actual number of workers who will benefit from the development is not known, since a contractor has not yet been appointed. It will naturally be recommended that residents from the local community be appointed for any work that needs to be done.

4.6 Infrastructure

4.6.1 Water

The development will be incorporated into the existing system currently being used in Upington. The Municipality will provide this service to future owners.

4.6.2 Sewerage

The development will be incorporated directly into the existing system of Upington. The Municipality will therefore also provide this service to future owners.

4.6.3 Storm water

Run-off water on the terrain will be accommodated directly into the road system or will be handled by the existing local culverts. The site will have no future problem concerning storm water drainage and no danger of possible floods occur in the area.

4.6.4 Electricity

The proposed development will be incorporated into the electricity reticulation system in Upington. Existing electricity services also exists in the area and the proposed development will therefore also be connected to them.

4.6.5 Solid waste

The household refuse will be removed from the area as part of the existing service provided to the rest of Upington. All refuse removed will then be dumped at the formal, licensed refuse site.

4.7 Air, water and land pollution

During the construction phase there may be minimal and periodic incidents of air and noise pollution due to construction activities such as dust and noise as a result of earthworks. The contractor will use water to minimise dust pollution. Construction work will also be limited between 07h00 - 19h00 hours, with no construction work on Sundays.

Due to the residential character and level of services planned at the proposed development, no serious risks thus exist in this regard.

4.8 Public participation and social characteristics

A comprehensive public participation process was followed to identify all possible interested and affected parties (I & APs) as well as issues of significance to the project.

The public participation process was done by means of newspaper advertisements (Annexure 1), an advertisement on the site, consultation with various stakeholders, and notices sent to the adjacent land owners (annexure 2) as well as relevant organisations, government departments, etc.

During this process the following interested and affected parties were identified and consulted:

Department of Water Affairs and Forestry

A copy of the Scoping Report is submitted to this department for their inputs.

McGregor Museum Kimberley - annexure 4

A Phase 1 Heritage Impact Assessment were done on this site. It is suggested that the development proceed as planned.

Adjacent landowner - annexure 3

Department of Tourism, Environment and Conservation

Site visit was done with the official, Mr R Moseki on 10 August 2006.

None of the abovementioned parties, as well as the adjacent land owners, had any objections to the development.

4.9 Social and economic characteristics

The proposed development will contribute positively to the spatial integration of the town, the effective use of existing infrastructure and will also provide in a demand for housing of this nature within Upington.

4.10 Public health characteristics

The proposed development will pose no threat to public in the area as it will merely be incorporated into the existing infrastructure and facilities in the area.

4.11 Archeological, historical and cultural issues

The development will pose no threat to any archeological, historical and cultural places of value as was confirmed by the Archeological department, McGregor Museum (annexure 4).

SECTION E

5 DESCRIPTION OF EXPECTED POSITIVE AND NEGATIVE EFFECTS ON THE ENVIRONMENT

The following issues that may impact on the environment have been identified:

5.1 Issues related to the site itself

5.1.1 Earthworks during development and construction

Due to the nature of the work to be done in the future, possible dust and noise pollution may occur during the construction phase. The impact of these problems can be minimised to a large extent by keeping the surface wet during construction and especially on windy days. This will lessen the generation of dust during this phase.

By restricting the use of heavy machinery and noise generating equipment to between 07h00 and 19h00, excluding Sundays, the effect of noise pollution on the existing community will be minimised.

As these two aspects will only be problematic during the short construction phase, they will have no long term negative influence on the environment.

5.1.2 Possible effects on the natural vegetation and habitat

As previously mentioned, the proposed development will take place on a piece of vacant land. The land has also already been disturbed by human activities. No natural veld, worthy of conservation, have been found at the site and the proposed development will not have a negative impact in this regard.

SECTION F

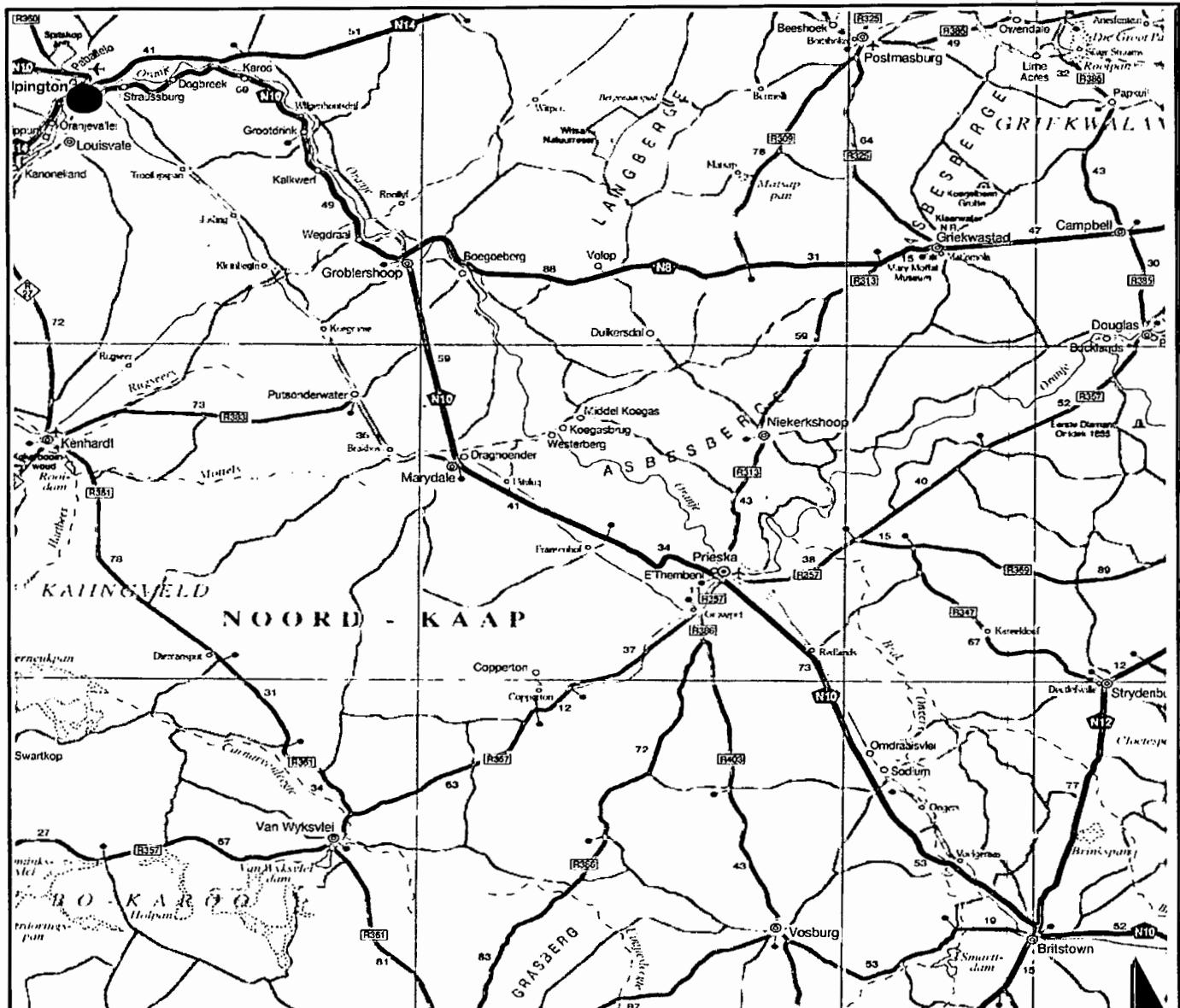
6. RECOMMENDATIONS

As can be seen from the above report, the proposed development of Erf 5686, Upington will not have a negative impact on the environment as long as certain precautionary measures, as will be discussed later, are implemented.

The following possible impacts identified, should however also be addressed as part of the process in order to minimise any negative effects on the environment:

- 5.1 During the construction of the services at the site the following aspects should be dealt with in an efficient manner:
 - 5.1.1 The prevention of any form of pollution that may take place during the construction period.
 - 5.1.2 Storage and removal of waste material from the site.
 - 5.1.3 The minimising of dust generation during construction by keeping the construction site wet.
 - 5.1.4 The provision of adequate sanitary facilities during the development of the site.
 - 5.1.5 The use of heavy machinery and noise generation equipment to be allowed between 07h00 and 19h00, excluding Sundays.
 - 5.1.6 The prevention of damage to existing infrastructure in the area.
- 5.2 Other regulations that should be complied with:
 - 5.2.1 All articles and regulations of the National Water Act 1988 (Act 36 of 1988) with regard to water pollution and with specific reference to Articles 19,20,21,22,26,27,28 and 29;
 - 5.2.2 All articles and regulations of the Environmental Conservation Act, 1989 (Act 73 of 1989) regarding the dumping of refuse.

Figure 1



Locality plan

Proposed change of land use,
Rosedale, ± 100 erven

UPINGTON

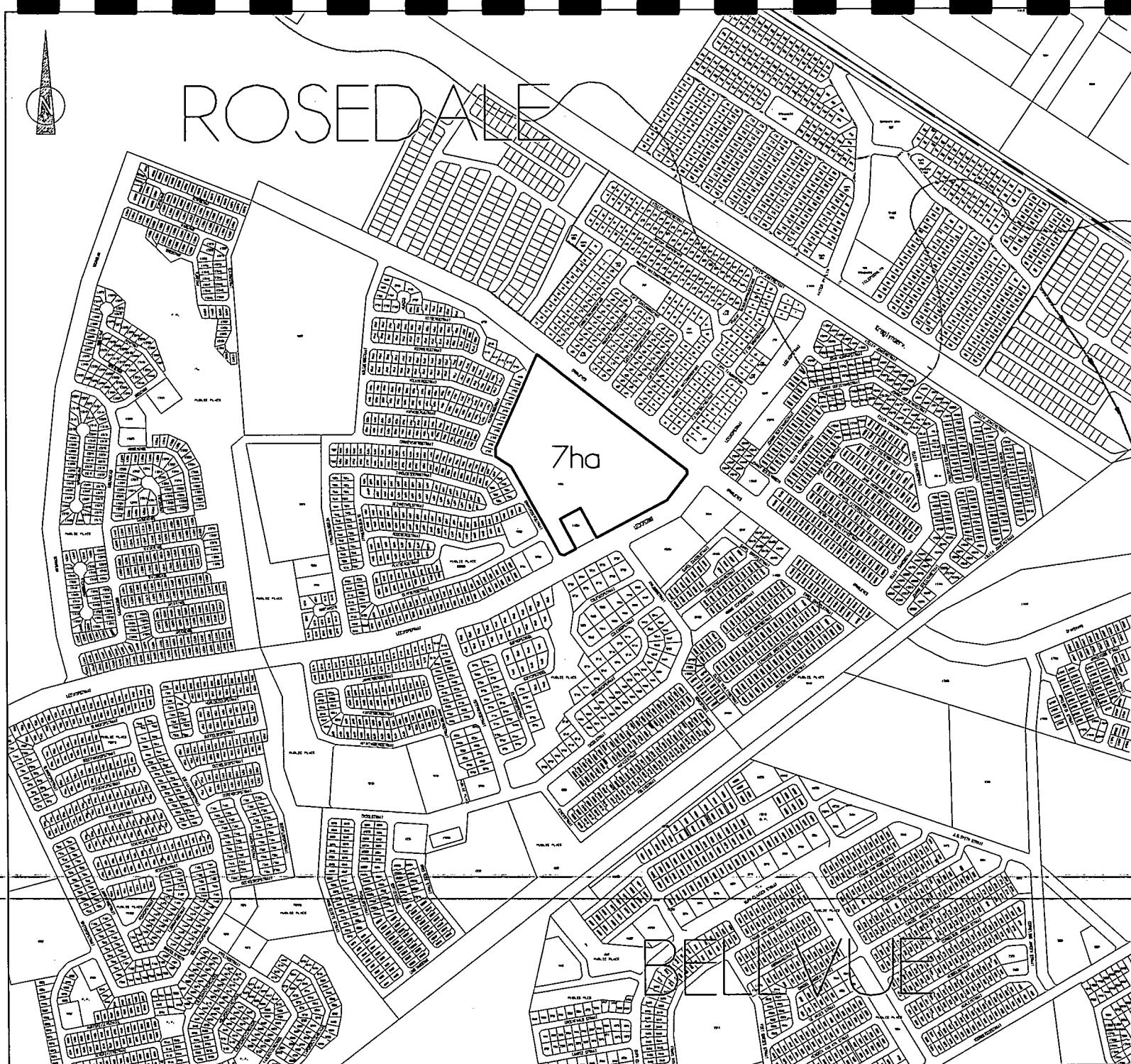
//KHARA HAIS MUNICIPALITY



Omgewingsimpakstudies

Tweedelaan 13 Oosterville, Upington 8801
Tel / Faks (054) 332 2781

Figure 2



Figuur 2
Liggingsplan - Plaaslik

ROSEDALE UITBREIDING

Aansoekgebied

MACROPLAN
Stads- & Streekbeplanners
Town & Regional Planners



Posbus 987
Upington
8800

Tel: 054 - 332 364

10 of 10

ANSWER

Spatial Re-

spanish De



G O B E T L A

U/KH/RD/02

SKAAL	1:10 000	SEALE	ONTWERP DESIGNED	Len Fourie
DATUM	Junie 2006	DATE	GETEKEN DRAWN	Thys Neels
			HAGESIEN CHECKED	

Figure 3

Photo

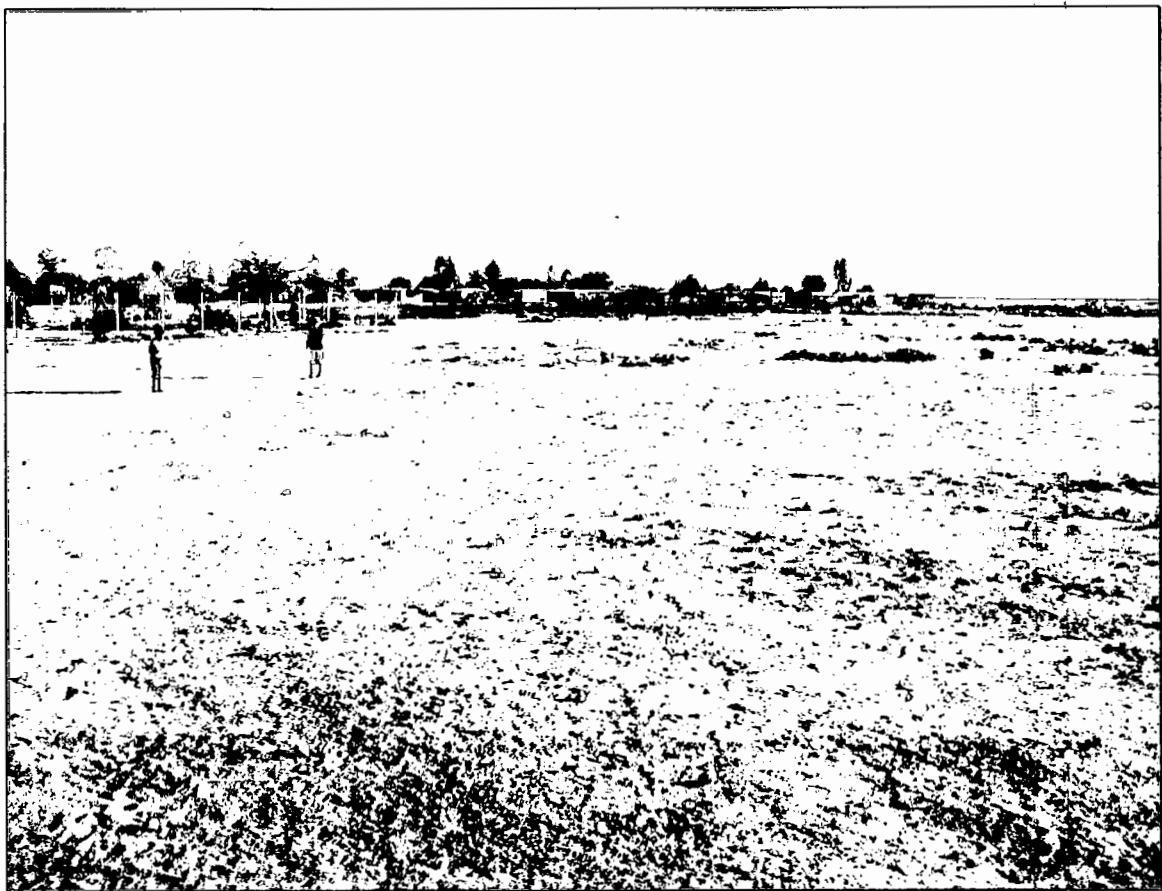


PHOTO: Proposed site ate ROSEDALE



Annexure 1

ENVIRONMENTAL IMPACT ASSESSMENT PROCESS - NOTICE N145/2006

Notice is given in terms of Regulation 4(6) of the regulations published in Government Notice No. R.1183 under Section 26 of the Environment Conservation Act, 1989 (Act 73 of 1989) of the intent to carry out the following activity:

Proposed Activity: Proposed land use change from agricultural/undetermined to economic/residential erwe.

Location: Erf 5686, ROSEDALE

Name of proponent: //Kharahais Municipality

Name of contact: MEG Omgewingsimpakstudies
Private Bag X5879
Postnet Suite 63
UPINGTON
8800

Tel/Fax: 054-332-2781
E-mail: megois@intekom.co.za

Date of advertisement: Gemsbok 22 September 2006

In order to ensure that you are identified as an interested and/or affected party please submit your name, contact information, comments and interest in the matter to the contact person given above within 14 days of publication of this advertisement.

OMGEWINGSIMPAKSTUDIE KENNISGEWING K145/2006

Kennis geskied in terme van Regulasie 4(6) van die regulasies soos gepubliseer in Staatskennisgewing Nr. R.1183 onder Afdeling 26 van die Wet op Omgewingsbewaring, 1989 (Wet 73 van 1989) van die voorneme vir die uitvoering van die volgende aktiwiteit:

Voorgestelde aktiwiteit: Voorgestelde grondgebruksverandering van landbou/onbepaald na ekonomies/residensiele erwe.

Liggings: Erf 5686, ROSEDALE
Aansoeker: //Kharahais Municipality

Kontakpersoon: MEG Omgewingsimpakstudies
Privaatsak X5879
Postnet Suite 63
UPINGTON
8800
Tel/Faks: 054-332-2781
E-pos: megois@intekom.co.za

Datum van advertensie: Gemsbok 22 September 2006

Ten einde te verseker dat u geïdentifiseer word as 'n belanghebbende party moet u asseblief u naam, kontak-inligting, kommentaar en belang by die aangeleentheid aan die kontakpersoon soos verstrekk binne 14 dae na publikasie stuur.

ENVIRONMENTAL IMPACT ASSESSMENT PROCESS - NOTICE N145/2006

Notice is given in terms of Regulation 4(6) of the regulations published in Government Notice No. R.1183 under Section 26 of the Environment Conservation Act, 1989, (Act 73 of 1989) of the intent to carry out the following activity:

Proposed Activity: Proposed land use change from agricultural/undetermined to economic residential erven

Location: Erf 5686, ROSEDALE

Name of proponent: //Khara Hais Municipality

Name of contact: MEG Omgewingsimpakstudies

Private Bag X5879

Postnet Suite 63

UPINGTON

8800

Tel/Fax: 054 332 2781

E-mail: megols@intekom.co.za

Date of advertisement: Gembok 22 September 2006

In order to ensure that you are identified as an interested and/or affected party please submit your name, contact information, comments and interest in the matter, to the contact person given above, within 14 days of publication of this advertisement.

OMGEWINGSIMPAKSTUDIE KENNISGEWING K145/2006

Kennis geskied in terme van Regulasie 4(6) van die regulasies soos gepubliseer in Staatskennisgewing Nr. R.1183 onder Afdeling 26 van die Wet op Omgewingsbewaring, 1989, (Wet 73 van 1989) van die voorneme vir die uitvoering van die volgende aktiwiteit:

Voorgestelde aktiwiteit: Voorgestelde grondgebruksverandering van landbou/onbepaald na ekonomies residensiale erven

Liggings: Erf 5686, ROSEDALE

Aansoeker: Municipality //Khara Hais

Kontakpersoon: MEG Omgewingsimpakstudies

Privaatsak X5879

Postnet Suite 63

UPINGTON

8800

Tel/Fax: 054 332 2781

E-pos: megols@intekom.co.za

Datum van advertensie: Gembok 22 September 2006

Ten einde te verseker dat u geïdentifiseer word as 'n belanghebbende party, moet u asseblief u naam, kontak instigting, kommentaar en belang by die aangeleentheid, aan die kontakpersoon soos verstrekk, binne 14 dae na publikasie stuur.

ENVIRONMENTAL IMPACT ASSESSMENT PROCESS NOTICE N146/2006

Notice is given in terms of Regulation 4(6) of the regulations published in Government Notice No. R.1183 under Section 26 of the Environment Conservation Act, 1989, (Act 73 of 1989) of the intent to carry out the following activity:

Proposed Activity: Proposed land use change from agricultural/undetermined to sub-economic residential erven

Location: Portion of the remainder of plot 456 and portion of erf 757, LOUISVALE ROAD

Name of proponent: //Khara Hais Municipality

Name of contact: MEG Omgewingsimpakstudies

Private Bag X5879

Postnet Suite 63

UPINGTON

8800

Tel/Fax: 054 332 2781

E-mail: megols@intekom.co.za

Date of advertisement: Gembok 22 September 2006

In order to ensure that you are identified as an interested and/or affected party please submit your name, contact information, comments and interest in the matter, to the contact person given above, within 14 days of publication of this advertisement.

OMGEWINGSIMPAKSTUDIE KENNISGEWING K147/2006

Kennis geskied in terme van Regulasie 4(6) van die regulasies soos gepubliseer in Staatskennisgewing Nr. R.1183 onder Afdeling 26 van die Wet op Omgewingsbewaring, 1989, (Wet 73 van 1989) van die voorneme vir die uitvoering van die volgende aktiwiteit:

Voorgestelde aktiwiteit: Voorgestelde grondgebruksverandering van landbou/onbepaald na sub-ekonomies residensiale erven

Liggings: Gedeelte van gedeelte 288 van die plaas Bethesda, RAASWATER

Aansoeker: Municipality //Khara Hais

Kontakpersoon: MEG Omgewingsimpakstudies

Privaatsak X5879

Postnet Suite 63

UPINGTON

8800

Tel/Fax: 054 332 2781

E-pos: megols@intekom.co.za

Datum van advertensie: Gembok 22 September 2006

Ten einde te verseker dat u geïdentifiseer word as 'n belanghebbende party, moet u asseblief u naam, kontak instigting, kommentaar en belang by die aangeleentheid, aan die kontakpersoon soos verstrekk, binne 14 dae na publikasie stuur.



Kuruman Christelike Akademie het 'n jaalikse seminaar in die Drakensberge bywoon. Op die foto vlnr. is J Kumm (KCA), mi WP Wahl, J Otto en N van Wyk (UOVS).

Kuruman Christelike Akademie deel van wenspan

KURUMAN: Kuruman Christelike Akademie het onlangs 'n jaarlike seminar by die Champagne Castle Sports Reso in die Drakensberge bygewoon.

Daar was ongeveer 500 skoolhoofde, pastorens en administrateurs van ACE Skole in Suid-Afrika (waarvan Kuruman Christelike Akademie deel is) teenwoordig.

Sprekers van onder andere Engeland, Amerika en Rusland het hulle toegespraak.

Daar was ook verteenwoordigers van ander Afrika en oorsese lande.

Tydens een van die lesings, het mnro Otto van die Universiteit van die Oranje Vrystaat, die kusgangers toegespraak.

Hy het onder hulle aandag gebreng dat ledlinge van ACE Skole (Accelerated Christian Education) hulself onderskei as uitmuntende studente.

Hy het genoem dat daar reeds tale studente hul grade voltooi het by die Universiteit, en in top studierigtings.

"Die UOVS is gretig om studente van ACE Skole te akmomodeer, waarvan tale beurse kon ontvang.

"Dit is omdat die kwaliteit onderrig en studiemetodes hulself bewys het en van die hoog gehalte is."

"Kuruman Christen Akademie is trots om deur hierdie wenspan skole te wees", sê Otto.

ENVIRONMENTAL IMPACT ASSESSMENT PROCESS NOTICE N144/2006

Notice is given in terms of Regulation 4(6) of the regulations published in Government Notice No. R.1183 under Section 26 of the Environment Conservation Act, 1989, (Act 73 of 1989) of the intent to carry out the following activity:

Proposed Activity: Proposed land use change from agricultural/undetermined to sub-economic residential erven

Location: Erf 5498, Portion of Erf 308 and portion of the remainder of erf 1, UPINGTON (Rondomstraat)

Name of proponent: //Khara Hais Municipality

Name of contact: MEG Omgewingsimpakstudies

Private Bag X5879

Postnet Suite 63

UPINGTON

8800

Tel/Fax: 054 332 2781

E-mail: megols@intekom.co.za

Date of advertisement: Gembok 22 September 2006

In order to ensure that you are identified as an interested and/or affected party please submit your name, contact information, comments and interest in the matter, to the contact person given above, within 14 days of publication of this advertisement.

OMGEWINGSIMPAKSTUDIE KENNISGEWING K146/2006

Kennis geskied in terme van Regulasie 4(6) van die regulasies soos gepubliseer in Staatskennisgewing Nr. R.1183 onder Afdeling 26 van die Wet op Omgewingsbewaring, 1989, (Wet 73 van 1989) van die voorneme vir die uitvoering van die volgende aktiwiteit:

Voorgestelde aktiwiteit: Voorgestelde grondgebruksverandering van landbou/onbepaald na sub-ekonomies residensiale erven

Liggings: Gedeelte van die restant van perseel 456 en gedeelte van erf 757, LOUISVALEWEG

Aansoeker: Municipality //Khara Hais

Kontakpersoon: MEG Omgewingsimpakstudies

Private Bag X5879

Postnet Suite 63

UPINGTON

8800

Tel/Fax: 054 332 2781

E-mail: megols@intekom.co.za

Datum van advertensie: Gembok 22 September 2006

Ten einde te verseker dat u geïdentifiseer word as 'n belanghebbende party, moet u asseblief u naam, kontak instigting, kommentaar en belang by die aangeleentheid, aan die kontakpersoon soos verstrekk, binne 14 dae na publikasie stuur.

KURUMAN CHRISTELIKE AKADEMIE

UPINGTON: Moenie jou gunstel sanger net op die Eiland-verhoog bewoed nie.

Kom kuleer saam met drie van vanjaar se Kunsfeeskunstenaars op Sakkie se Arkie. Chapi, Wicus van der Merwe en Thys Bosveldkong is die kunstenaars wat die werk van die Oranjieviering saam met feesgangers Sakkie se Arkie gaan aandurf. Een van hierdie sangers van elke hand vir die skemer-rit (het) op die Arkie en gaan koppie gesels saam kuleer CD's sal ook te koop wees.

"Vra op die Arkiegaand, die 21ste, vir Guit uit oor so groot bös hare of hoe 'n tromspel kan sing. Vrydagavaand, Wicus van der Merwe op die Arkie en Saterdag sal Thys Bosveldkong kom."

Annexure 2

10 - 100 enne.

AANGRENSEND ROSEDALE CIVIC

<u>ERF 7751</u>	<u>ERF 7752</u>
Mnr A Klaaste Vuurbergstraat 41 Upington 8801	Mnr GJ Titus Vuurbergstraat 43 Upington 8801
<u>ERF 7753</u>	<u>ERF 7754</u>
Mnr I Scheepers Vuurbergstraat 45 Upington 8801	Mnr K van Wyk Vuurbergstraat 47 Upington 8801
<u>ERF 7755</u>	<u>ERF 7756</u>
Mev M Basson Vuurbergstraat 49 Upington 8801	Mev M van Vuuren 3de Laan 10 Upington 8801
<u>ERF 7757</u>	<u>ERF 7758</u>
Mnr W Basson Vuurbergstraat 53 Upington 8801	Mnr W Kock Vuurbergstraat 55 Upington 8801
<u>ERF 7759</u>	<u>ERF 7760</u>
Mnr W van Schalkwyk Vuurbergstraat 57 Upington 8801	Mnr FJ van Wyk Vuurbergstraat 59 Upington 8801
<u>ERF 7761</u>	<u>ERF 7762</u>
Mnr T Olyn Vuurbergstraat 61 Upington 8801	Mnr B Isaks Vuurbergstraat 63 Upington 8801
<u>ERF 7890</u>	<u>ERF 7891</u>
Mnr NA Basson Drakensbergstraat 48 Upington 8801	Mev RS Kenneth Drakensbergstraat 50 Upington 8801

<u>ERF 7892</u>	<u>ERF 7893</u>	
Mnr M Beukes Drakensbergstraat 52 Upington 8801	Mev E Duraan Drakensbergstraat 54 Upington 8801	
<u>ERF 7894</u>	<u>ERF 7895</u>	
Mnr M Basson Drakensbergstraat 56 Upington 8801	Mej M Assegaaï Drakensbergstraat 58 Upington 8801	
<u>ERF 8006</u>	<u>ERF 5696</u>	
Mnr J Kock Seinheuwelstraat 44 Upington 8801	Apostolic Church of AFR Posbus 12174 Brandhof 9324	
<u>ERF 5700</u>	<u>ERF 5723</u>	
Business Partners Limited Posbus 43297 Industria 2042	Mnr SS Rapatsa Leeukopstraat 14 Upington 8800	
<u>ERF 5724</u>	<u>ERF 5725</u>	
Mnr P Afrikaner .Privaatsak X5942 Upington 8801	Mnr CF Steenkamp Gazaniastraat 9 Louisvaleweg 8801	
<u>ERF 5726</u>	<u>ERF 5727</u>	
Mnr WP Isaks Leeukopstraat 8 Upington 8801	Mnr M de Villiers Leeukopstraat 6 Upington 8801	
<u>ERF 5846</u>		
DOW Privaatsak X5002 Kimberley 8300		

Annexure 3

KENNISGEWING

Ek/Ons Mnr. W. van Schalkwyk.....
eienaar/bestuurder/voorsitter van die plot/plaas/erf, 7759 Nuurberg SIE 57
Rosedale bevestig hiermee dat ek/ons in kennis gestel is van
die voorgestelde grondgebruiksverandering vir die ontwikkeling van residensiële doeleindest, Erf
5686, ROSEDALE, UPINGTON, soos beplan.

Dui aan watter opsie is van toepassing(X):

- Geen beswaar
- Kommentaar as volg:

Alken luk vir bestande huise

Ful stasie vir Rosedale

Pukken - Puy mit te bery na Rosedale

Handtekening

Datum

Telefoon

Faks

Stuur asseblief die voltooide vorm terug so gou moontlik

BAIE DANKIE!!

KENNISGEWING

Ek/Ons MIEA VAN VUUREN

eienaar/bestuurder/voorsitter van die plot/plaas/erf 7756

.....bevestig hiermee dat ek/ons in kennis gestel is van
die voorgestelde grondgebruiksverandering vir die ontwikkeling van residensiële doelesindes,Erf
5686, ROSEDALE, UPINGTON, soos beplan.

Dui aan watter opsie is van toepassing(X):

- Geen beswaar
- Kommentaar as volg:
.....
.....
.....
.....
.....
.....
.....
.....

M. VAN VUUREN 03-10-2006 0783063498

Handtekening	Datum	Telefoon	Faks
---------------------	--------------	-----------------	-------------

Stuur asseblief die voltooide vorm terug so gou moontlik

BAIE DANKIE!!

KENNISGEWING

Wnr A. KLAASZ
Ek Ons.....

eigenaar/bestuurder/voorsitter van die plot/plaas/erf 7751, ROSEDALE.....
bevestig hiermee dat ek/ons in kennis gestel is van
die voorgestelde grondgebruiksverandering vir die ontwikkeling van residensiële doeleindes,Erf
5686, ROSEDALE, UPINGTON, soos beplan.

Dui aan watter opsie is van toepassing(X):

- Geen beswaar
- Kommentaar as volg:

AS GROND GEWIJD VIR RESIDENSIËLE
GRONDBRUIK WORD EN AS PLAATKERS GEWIJD
NIE HET LIK GEEN BESWAAR NIE.


Handtekening

26-9-2006 33921 00

Datum

Telefoon

Faks

Stuur asseblief die voltooide vorm terug so gou moontlik

BAIE DANKIE!!

Annexure 4

**PHASE 1 HERITAGE IMPACT ASSESSMENT REPORT ON A
PLANNED EXTENSION OF THE ROSEDALE TOWNSHIP, //KHARA
HAIS MUNICIPALITY, NORTHERN CAPE PROVINCE.**

Peter B Beaumont

c/o Archaeology Department
McGregor Museum
PO Box 316
8300 Kimberley
Tel 053 - 842 0986 or 053 - 839 2700
Fax 053 - 842 1433
e-mail se@museumsnc.co.za

CONSULTANT

Ms Marquerite Geldenhuys
MEG Environmental Impact Studies

Tweedelaan 13
Oosterville
8801 Upington
Tel 054 - 332 2781
Fax 054 - 332 2781
e-mail megois@intekom.co.za

17 August 2006

EXECUTIVE SUMMARY

The purpose of this study was to establish if any heritage sites were present on a proposed extension of the Rosedale Township, //Khara Hais Municipality, Northern Cape. Within the 7 ha area Precambrian schists were noted to be covered by minor schist, quartz and calcrete rubble in a matrix of gritty orange sand, on and in which no artefacts, fossil bones or early graves were seen. It is consequently considered that this terrain has no heritage potential and that its development will have no impact on the archaeological resources of the Northern Cape.

BACKGROUND INFORMATION

Upington is a thriving city with a burgeoning population and a resultant huge demand for township and other housing. This study was requested by M Geldenhuys of MEG Environmental Impact Studies, acting in conjunction with Macroplan Town and Regional Planners based there.

LOCAL ARCHAEOLOGY

Rather few Stone Age sites are known in the near vicinity of Upington, with one of these being the recently - located Victoria West occurrence on the farm Droogehout 422, about 30 km WNW of it, on the N 10 to Nakop.

PROPERTY DESCRIPTION

The 7 ha area that was examined lies immediately to the north of the local Police Station, some 4 km west of the centre of Upington (Figs 1 & 2). It is virtually bereft of vegetation, is completely flat, criss-crossed by pathways, with the floor screed of an old house being noted towards its centre (Fig 3). I spent about an hour walking over the full extent of this ground, with SW edge co-ordinates of 28° 27' 14" S, 21° 12' 27" E, and an elevation of 818 m, on Monday 31 July 2006.

SUPERFICIAL GEOLOGY

The sediment sequence was seen to be bedrock of Precambrian schist, usually overlain by a quartz and calcrete rubble in a matrix of gritty orange sand, but, in some areas, patches of calcrete form the surface.

HERITAGE FINDINGS

My random search of this property produced no artefacts, palaeontological bones or graves of any age.

CONCLUSIONS

The investigated area was bereft of any heritage material and its use for housing will therefore have no impact on the archaeological resources of the Northern Cape.

NOTES

- A copy of the locality maps and all appended Figures must accompany this report to SAHRA.
- Applications to SAHRA will not be processed unless accompanied by payment of R150 per application. SAHRA banking details are: ABSA, Branch Code: 312109; Current Account no.: 360 680 606.

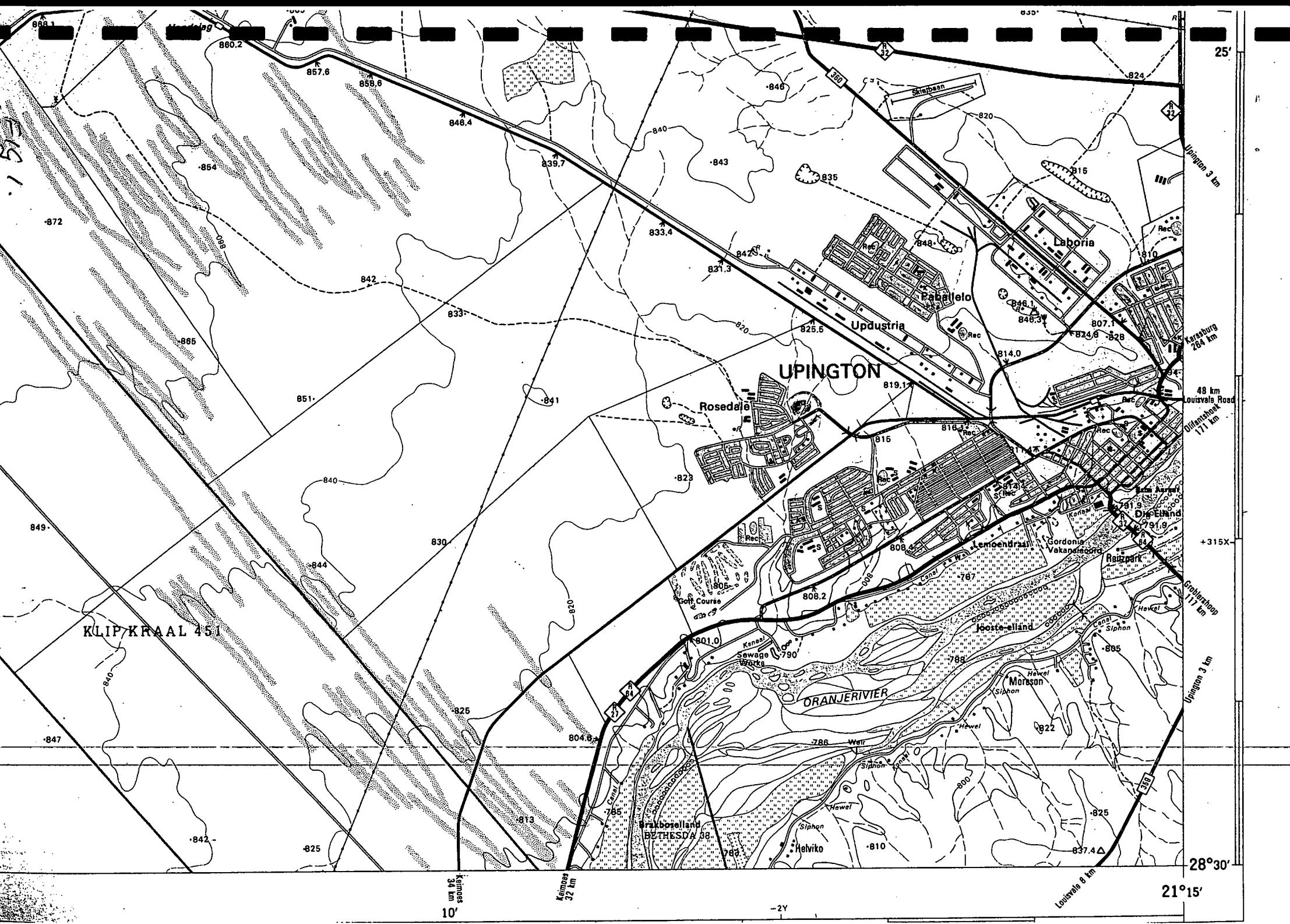
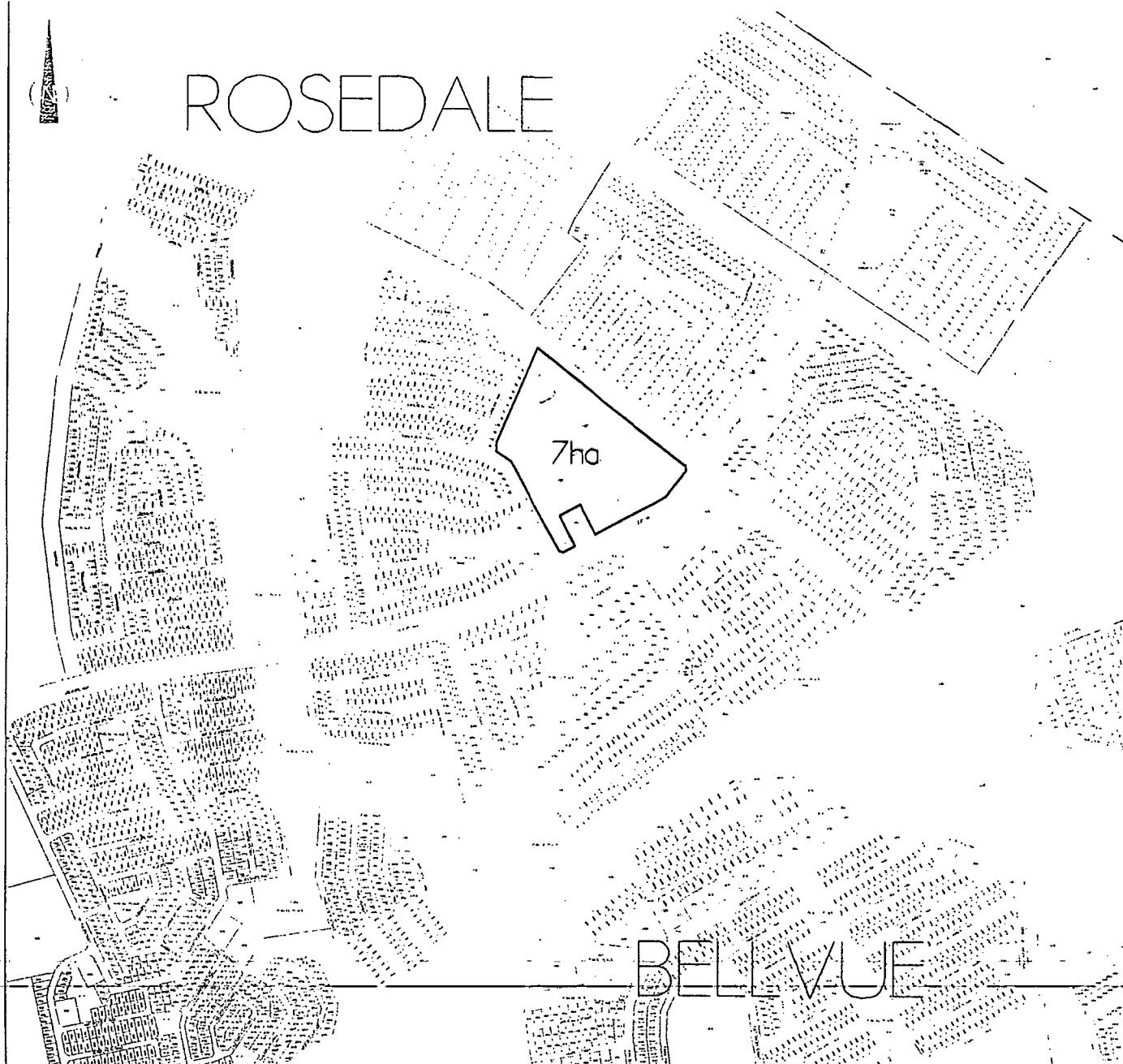


FIG 2

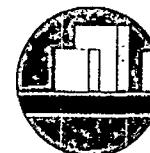


Figuur
Liggingsplan - Plaats

Aansoekgebied

MACROPLAN

Stads- & Streetbeplanners
Town & Regional Planners



Spatial Designs
Land Use Specialists



GOBETLA

U/KH/RD/02

Plot No.	Area (ha)	Plot Name	Plot Type	Plot Status
1	0.0000		RESIDENTIAL	Planned
2	0.0000		RESIDENTIAL	Planned
3	0.0000		RESIDENTIAL	Planned

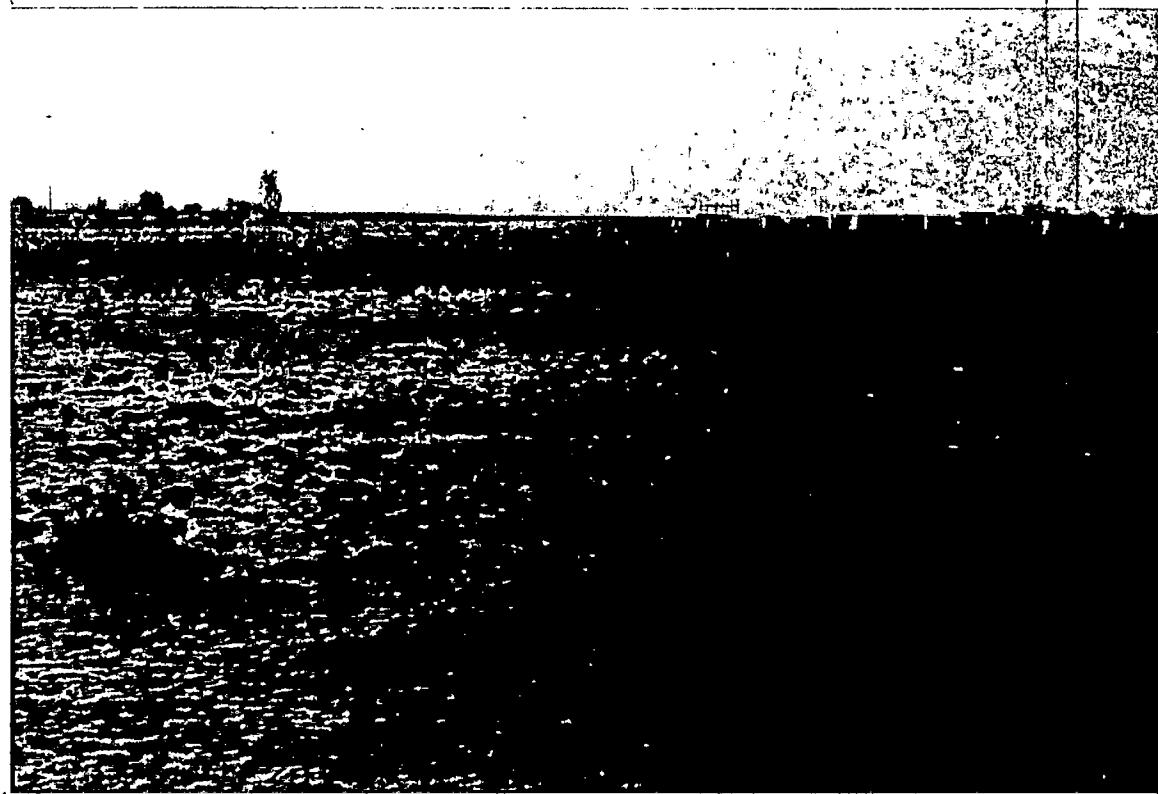


FIG 3

Annexure 5



DWJ

DEPARTEMENT VAN WATERWESE EN BOSBOU
DEPARTMENT OF WATER AFFAIRS AND FORESTRY
REPUBLIEK VAN SUID-AFRIKA / REPUBLIC OF SOUTH AFRICA

RESIDENSIEGEBOU / BUILDING, SCHOEMANSTRAAT 185 SCHOEMAN STREET
Fax: (012) 326-1780
(012) 323-4472
Telegram: DAMWATER

Privaatsak
Private Bag X313
Pretoria
0001

Nevrae: J. Jolly
Enquiries: (021) 457 025
Verwysing: B33/2/442/1/S
Reference:



←

①

PERMITNOMMER: B33/2/442/1/P68

TIPE: KLAS 2

AFVALSTORTTERREIN: DIE DUINE

LIGGING: GEDEELTE VAN KAMP K3/325 VAN UPINGTON DORPSGRONDE (ERF 1), DISTRIK UPINGTON.

PERMITHOUER: STADSRAAD VAN UPINGTON

ADRES: PRIVAATSAK X6003, UPINGTON, 8800.

PERMIT KRAGTENS ARTIKEL 20 VAN DIE WET OP OMGEWINGSBEWARING, 1989 (WET 73 VAN 1989)

Kragtens die bevoegdheid aan my gedelegeer deur die Minister van Omgewingsake en van Waterwese (hierin na verwys as "die Minister"), verleen ek, Wouter van der Merwe, in my hoedanigheid van Bestuurder: Wetenskaplike Dienste van die Departement van Waterwese en Bosbou (hierna genoem "die Departement"), hiermee, kragtens artikel 20 (1) van die Wet op Omgewingsbewaring, 1989 (Wet 73 van 1989), toestemming aan die Stadsraad van Upington vir die bedryf en verdere ontwikkeling van die Duine-afvalstortterrein, onderworpe aan die voorwaardes wat in hierdie Permit uiteengesit is.

PERMITVOORWAARDES

In hierdie Permit beteken "Streekdirekteur" die Streekdirekteur: Wes-Kaap van die Departement, wat by die volgende adres geskakel kan word:

Streekdirekteur: Wes-Kaap
Departement van Waterwese en Bosbou
Privaatsak X9075
KAAPSTAD
8000

1. LIGGING

Hierdie Permit magtig die vestiging, bedryf en verdere ontwikkeling van 'n afvalstortterrein op 'n gedeelte van Kamp K3/325 Upington dorpsgronde (Erf 1), Distrik Upington (hierna genoem "die Terrein") in ooreenstemming met die verslag 36/92 deur K.O. Murphy van Watertek in Stellenbosch, gedateer November 1992 (hierna genoem "die Verslag"), voorgelê deur

die Permithouer. Die grense van die Terrein sal wees soos aangedui op plan nommer UM - 2 gedateer November 1992, voorgelê deur die Permithouer.

2. TOELAATBARE AFVAL

- 2.1 Die Terrein mag gebruik word vir die storting van alle tipes afval met uitsondering van afval gelys in Aanhangsel I en afval waaroer spesifieke beheer uitgeoefen word kragtens die Wet op Kernenergie, 1982 (Wet 92 van 1982). Afvaltipes waaroer beheer uitgeoefen word kragtens die Mineraal Wet, 1991 (Wet 50 van 1991) en die Elektrisiteitswet, 1987 (Wet 41 van 1987) is ook uitgesluit van storting op die Terrein, behalwe waar skriftelike toestemming daarvoor deur die Streekdirekteur verleen is.
- 2.2 Die Permithouer moet alle redelike stappe doen om te verseker dat -
 - 2.2.1 geen mediese afval op die Terrein gestort word nie, tensy dit vooraf teen 800°C of hoër vir ten minste 1 sekonde verbrand is; en
 - 2.2.2 geen geskeduleerde farmaseutiese produkte kragtens die Wet op die Beheer van Medisyne en Verwante Stowwe, 1965 (Wet 101 van 1965) of geassosieerde houers op die Terrein gestort word nie.

3. KONSTRUKSIE

- 3.1 Die Terrein of enige gedeelte daarvan mag uitsluitlik vir die storting van toelaatbare afval gebruik word indien die konstruksie of verdere ontwikkeling van die Terrein of enige sodanige gedeelte in ooreenstemming met voorwaarde 3 van hierdie Permit geskied.
- 3.2 Die konstruksie en verdere ontwikkeling van die Terrein moet volgens die goedgekeurde Verslag gedoen word.
- 3.3 Die konstruksie en verdere ontwikkeling van die Terrein moet plaasvind onder die toesig van 'n voldoende gekwalifiseerde persoon soos deur die Permithouer voorgestel en deur die Streekdirekteur goedgekeur is.
- 3.4 Na konstruksie van die Terrein moet die Permithouer die Streekdirekteur in kennis stel voordat enige afval op die Terrein gestort mag word. Die Terrein sal deur 'n beampte van die Departement en die persoon na wie verwys word in voorwaarde 3.3 geïnspekteer word. Indien die Streekdirekteur tevrede is met die konstruksie van die Terrein en skriftelike toestemming verleen het, mag die Permithouer die Terrein vir die storting van afval gebruik.

- 3.5 Die Permithouer moet alle redelike maatreëls tref, soos byvoorbeeld gesikte sonering of die verkryging van skriftelike toestemming van die huidige grondeienaars, om 'n buffersone van 800 meter tussen die Terrein en die naaste woon- en/of ligte nywerheidsgebied te vestig en in stand te hou gedurende die bedryf van die Terrein. Swaar nywerhede of nywerhede wat self 'n corlas mag veroorsaak, kan kragtens toepaslike wetgewing in die buffersone toegelaat word.
- 3.6 Werke moet deur die Permithouer opgerig en gereeld in stand gehou word om alle afloopwater wat aanliggend tot die Terrein kan ontstaan en wat verwag kan word as gevolg van die beraamde maksimum reënval wat gedurende 'n tydperk van 24 uur mag voorkom met 'n gemiddelde frekwensie van een in vyftig jaar (hierna genoem die "beraadde maksimum reënval"), van die Terrein weg te keer en op 'n wettige manier af te voer. Onder die genoemde maksimum reënval moet die werke 'n minimum vryboord van 'n halwe meter handhaaf.
- 3.7 Werke moet deur die Permithouer opgerig en gereeld in stand gehou word om alle afloopwater wat op die Terrein kan ontstaan en wat as gevolg van die beraamde maksimum reënval verwag kan word, van die werkfront van die Terrein weg te keer en af te voer en te verhoed dat die afloopwater met loog in aanraking kom. Onder die genoemde maksimum reënval moet die werke 'n minimum vryboord van 'n halwe meter handhaaf.
- 3.8 Afloopwater waarna in voorwaarde 3.7 verwys word, moet voldoen aan die gehaltevereistes van die Algemene Standaard, soos voorgeskryf ingevolge artikel 21(1)(a) van die Waterwet, 1956 (Wet 54 van 1956) soos gepubliseer in Algemene Kennisgewing 991 van 18 Mei 1984 of vereistes wat van tyd tot tyd deur die Minister vasgestel mag word en moet op 'n wettige manier afgevoer word.
- 3.9 Afloopwater waarna in voorwaarde 3.7 verwys word, wat nie aan die gehaltevereistes in voorwaarde 3.8 voldoen nie, asook alle loog, moet deur middel van werke wat deur die Permithouer opgerig is en deurlopend deur hom in stand gehou word -
- 3.9.1 in enige gerieflike riool afgevoer word indien dit aanvaarbaar is vir die verantwoordelike owerheid in beheer van die riool; en/of
- 3.9.2 behandel word om aan bogenoemde standaard te voldoen en op 'n wettige manier afgevoer word; en/of,
- 3.9.3 met die skriftelike toestemming van die Streekdirekteur -
- 3.9.3.1 opgevang en behou word vir verdamping in verdampingspanne; en/of
- 3.9.3.2 verdamp word deur besproeiing slegs op die gedeeltes van die Terrein wat voldoen aan vereistes in permitvoorwaarde 3.1 gestel.

3.10 Werke wat aan voorwaarde 3.9 voldoen, moet genoeg kapasiteit hê om die hoeveelheid loog, wat as gevolg van die beraamde maksimum reënval verwag kan word, te kan hanteer. Onder die genoemde maksimum reënval moet die werke 'n minimum vryboord van 'n halwe meter handhaaf.

3.11 Die Terrein moet ooreenkomsdig erkende siviele ingenieurspraktyk opgerig word om die stabiliteit daarvan te verseker.

3.12 Die maksimum hoogte van die Terrein bokant grondvlak mag nie 12 meter oorskry nie.

3.13 Die helling van die Terrein moet ontwikkel word sodat weinig of geen erosie plaasvind nie.

3.14 Die Permithouer moet voorsiening maak vir toereikende sanitasiegeriewe op die Terrein.

4. TOEGANGSBEHEER

4.1 Weerbestande, duursame en duidelik leesbare kennisgewings, in albei amptelike tale, moet by elke toegangspunt tot die Terrein aangebring word. Hierdie kennisgewings moet ongemagtigde toegang verbied en moet die bedryfsure, die naam, adres en telefoonnummer van die Permithouer en van die persoon in beheer van die Terrein aantoon.

4.2 Die Terrein moet doeltreffend omhein word met 'n heining van ten minste 1,8 meter hoog en hekke by toegangspunte met dieselfde hoogte ten einde ongemagtigde toegang redelikerwys te voorkom en die rondwaai van papiere en plastiek te beperk.

4.3 Die Permithouer moet alle redelike stappe doen om dienspaaie in 'n toestand te onderhou wat onbelemmerde toegang tot die Terrein sal verseker vir voertuie wat afval vervoer en om paaie van afval skoon te hou.

4.4 Die Permithouer moet verseker dat alle toegangspunte gedurende bedryfsure beman en na ure gesluit word.

4.5 Die Permithouer moet doeltreffende toegangsbeheer toepas.

4.6 Die Permithouer moet alle redelike stappe doen om te verseker dat slegs toelaatbare afval waarna in permitvoorwaarde 2 verwys word, op die Terrein gestort word.

5. BEDRYF

5.1 Alle afval wat op die Terrein gestort is, moet aan die einde van elke werksdag gekompakteer en met 'n laag grond (of ander materiaal wat deur die Streekdirekteur goedgekeur is) van ten minste 150 millimeter dik bedek word.

- 5.2 Die Permithouer moet alle redelike maatreëls tref om te verseker dat die Terrein so bedryf word dat geen oorlas of gesondheidsgevare ontstaan nie.
- 5.3 Die Permithouer moet verskuifbare heinings gebruik om afval wat deur die wind versprei word, te beheer.
- 5.4 Die Permithouer moet voldoende stofbeheermaatreëls toepas om oorlastoestande en gesondheidsgevare wat veroorsaak kan word deur stof wat deur die wind versprei word, te voorkom.
- 5.5 Afval wat op die Terrein gestort is, mag nie herwin word nie.
- 5.6 Die Permithouer moet voldoende maatreëls tot die tevredenheid van die Streekdirekteur tref vir die ventilasie of beheer van metaangas wat in die Terrein ontstaan, om sodoende die opbou van 'n gevaarlike konsentrasie te verhoed. Die konsentrasie van metaangas vanaf die Terrein mag nie 1% per volume oorskry nie en die koolstofdioksiedkonsentrasie mag nie 0,5% per volume oorskry nie. Hierdie konsentrasies moet bepaal word deur metings wat gedoen word by die grens van die Terrein, binne 20 millimeter vanaf die natuurlike grondvlak.

MONITERING

- 6.1 'n Boorgatmoniteringstelsel vir die Terrein moet in ooreenstemming met die Verslag deur die Permithouer tot die tevredenheid van die Streekdirekteur ingestel en in stand gehou word sodat monsters, soos in die Permit vereis, ongehinderd geneem kan word.
- 6.2 Moniteringsboorgate moet voorsien word van 'n sluitbare deksel. Die Departement behou die reg voor om te eniger tyd monsters te neem en te analyseer of te laat analyseer.
- 6.3 Oppervlakwatermonitering moet vir alle stormwaterafloop op en aanliggend tot die Terrein uitgevoer word op plekke wat in oorleg met die Streekdirekteur bepaal is en teen 'n frekwensie soos deur die Streekdirekteur bepaal.
- 6.4 Behandelde loog, wat in 'n waterbron gestort word, moet gemonitor word en die standaarde, parameters en monsternemingsfrekwensie sal wees soos bepaal en van tyd tot tyd deur die Bestuurder: Wetenskaplike Dienste aangepas.
- 6.5 Agtergrondmonitering
- Monsters verkry vanaf 'n boorgat, waar die grondwater in die boorgat by 'n verwagte hoër hidrouliese drukvlak geleë is as die hidrouliese drukvlak van die grondwater onder die Terrein, word as agtergrondmonitering beskou. Agtergrondmonitering vir grondwater moet tydens elke moniteringsgeleentheid kragtens voorwaardes 6.6, 6.7 of 6.8 uitgevoer word vir die watergehalteveranderlikes soos in Aanhangsel II gelys.

6.6

Waarnemingsmonitering

Monitering moet binne 3 dae vanaf 15 Januarie en 15 Julie elke jaar uitgevoer word vir die watergehalteveranderlikes gelys in paragraaf (a) van Aanhangsel III en jaarliks binne 3 dae vanaf 15 Julie vir die veranderlikes in paragraaf (b) van Aanhangsel III.

6.7

Ondersoekingsmonitering

Indien, na die mening van die Streekdirekteur, 'n watergehalteveranderlike, wat onder die waarnemingsmoniteringsprogram (voorwaarde 6.6) gelys is, 'n stygende tendens toon, moet die Permithouer met 'n maandelikse moniteringsprogram vir die watergehalteveranderlikes gelys in Aanhangsel II begin.

6.8

Monitering na sluiting

Grondwatermonitering deur die Permithouer, in ooreenstemming met voorwaarde 6.6 of 6.7, moet onmiddellik na sluiting van die Terrein 'n aanvang neem en vir 'n tydperk van 30 jaar volgehou word, of vir 'n korter tydperk soos deur die Streekdirekteur bepaal.

6.9

Verdere monitering

Die Permithouer moet rekord hou van alle inligting waarna in Aanhangsel IV verwys word en dit jaarliks opdateer.

7.

METODES VAN ANALISE

7.1

Die Permithouer moet alle toetse uitvoer ooreenkomsdig die metodes voorgeskryf deur en verkrybaar by die Suid-Afrikaanse Buro vir Standaarde (SABS), vermeld in die Wet op Standaarde, 1982, (Wet 30 van 1982), om die monsters te ontleed wat geneem is tydens die moniteringsprogramme, voorgeskryf in voorwaarde 6.

7.2

Die Permithouer mag slegs van ander metodes van analise gebruik maak indien daar skriftelike bewys aan die Streekdirekteur gelewer word dat die metode ekwivalent is aan die SABS-metode.

8.

NOTERING

Die Permithouer moet alle boorgatdata en chemiese analyses in die formaat soos beskryf in Aanhangsel V, noteer.

9.

VERSLAGDOENING

9.1

Die inligting soos ingevolge voorwaardes 6.1 tot 6.8 vereis, moet aan die Streekdirekteur gestuur word binne 'n tydperk van 30 dae nadat die analyses van die genoemde monsters

gedoen is. Die inligting soos ingevolge voorwaarde 6.9 vereis, moet binne een jaar ná die datum van uitreiking van hierdie Permit aan die Streekdirekteur gestuur word en jaarliks daarna.

10. FINALE REHABILITASIE EN SLUITING VAN DIE TERREIN

- 10.1 Die Permithouer moet ten minste 60 dae voor die beoogde sluiting van die Terrein, die Streekdirekteur per geregistreerde pos in kennis stel van die beoogde sluiting en finale, opgedateerde rehabilitasieplanne vir sy goedkeuring indien.
- 10.2 Onmiddellik nadat werkzaamhede by die Terrein gestaak is met die doel om die Terrein te sluit, moet die oppervlak van die Terrein bedek word sodat -
 - 10.2.1 geen poelvorming as gevolg van reën kan plaasvind nie;
 - 10.2.2 die vrye oppervlakafloop van reënwater verseker word; en
 - 10.2.3 geen voorwerpe of materiale op die Terrein voorkom wat die rehabilitasie daarvan kan belemmer nie.
- 10.3 Die Permithouer moet die Terrein ooreenkomsdig die Verslag en tot die tevredenheid van die Streekdirekteur rehabiliteer.

11. VERHURING EN VERVREEMDING VAN DIE TERREIN

Indien die Permithouer die Terrein aan 'n ander persoon wil verhuur of vervreem, moet die Streekdirekteur ten minste 60 dae voor sodanige transaksie daarvan in kennis gestel word.

12. ALGEMEEN

- 12.1 Hierdie Permit is nie oordraagbaar sonder die skriftelike toestemming van die Minister nie en dan slegs onderworpe aan die voorwaardes wat hy mag stel.
- 12.2 Hierdie Permit moet nie op so 'n wyse vertolk word dat dit vrystelling verleen van voldoening aan die bepalings van die Wet op Gesondheid, 1977 (Wet 63 van 1977) of die Waterwet, 1956 (Wet 54 van 1956) of enige ander toepaslike wet, ordonnansie, regulasie of verordening nie.

M. du Plessis

BESTUURDER: WETENSKAPLIKE DIENSTE
P.P. MINISTER VAN OMGEWINGSAKE EN VAN WATERWESE

DATUM: 1993. 05. 10

AANHANGSEL ILYS VAN GEVAARLIKE EN TOKSIESE STOWWE WAT SLEGS OP 'N KLAS 1 TERREIN
GESTORT MAG WORD

Sure en Alkalië
Antimoon en antimoonverbindings
Arseenverbindings
Asbes (stowwige asbes en los vesels)
Bariumverbindings
Berillium en berilliumverbindings
Biododers en fitofarmaseutiese stowwe
Boorverbindings
Kadmium and kadmiumverbindings
Chroomverbindings
Koperverbindings
Gevaarhoudende heterosikliese organiese verbindings bevattende suurstof, stikstof of swael
Gevaarhoudende suurstof-, stikstof- en swaelverbindings van koolwaterstowwe
Anorganiese sianiede
Anorganiese halogeen-bevattende verbindings
Anorganiese swael-bevattende verbindings
Laboratorium chemikalieë
Loodverbindings
Mediese afval (weefsels, bloed, deppers, naalde, ens)
Kwikverbindings
Nikkel en nikkelverbindings
Organiese halogenverbindings, met uitsondering van inerte polimeriese stowwe
Verwe en verfslik
Peroksiede, chlorate, perchlorate en asiede
Plaaggoders en insekdoders
Farmaseutiese en veeartsenykundige verbindings
Fosfor en fosforverbindings
Selenium and seleniumverbindings
Silwerverbindings
Teeragtige stowwe van raffinering en teeroorblyfsels van distillering, insluitende petroleum produkte
Tellurium en telluriumverbindings
Tallium en talliumverbindings
Vanadiumverbindings
Sinkverbindings
Afval met 'n flitspunt, soos gemeet met die gesloten houer metode, laer as 60°C

AAHANGSEL IIWATERGEHALTEVERANDERLIKES WAT VEREIS WORD VIR AGTERGRONDMONITERING
EN ONDERSOEKINGSMONITERING : VOORWAARDES 6.5 EN 6.7

Alkaliniteit	Vrye- & gebonde ammoniak (as N)
Kalsium	Boor
Chroom (Totaal)	Magnesium
Chroom (heksavalent)	Kadmium
Chemiese suurstof eis (CSE)	Chloriede
Sianied	Kwik
Lood	pH
Nitraat (as N)	Natrium
Fenol verbindings	Elektriese geleidingsvermoë
Kalium	Sulfaat
Totale opgeloste vaste stowwe	

AANHANGSEL IIIWATERGEHALTEVERANDERLIKES WAT VEREIS WORD VIR WAARNEMINGS
MONITERING: VOORWAARDE 6.6

(a)

Alkaliniteit
Chemiese suurstof eis
pH
Totale opgeloste vastestowwe
Chloriede
Nitrate
Kalium

(b)

Jaarliks vir elektriese geleidingsvermoeë, kalsium, magnesium, natrium, sulfaat en fluoriedes.

AANHANGSEL IVINLIGTING WAT JAARLIKS VERSKAF MOET WORD: VOORWAARDE 6.9

J J J J M M D D

NAAM VAN TERREIN: DIE Duine

DATUM VAN VERSLAG

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1. Geregistreerde eienaar(s) van eiendom waarop stortterrein geleë is:

Naam..... MKHABA HAIS MUNICIPALITY
 Posadres..... 8/5 X 6003 URGINGTON Telefoonkode & No 054 332 5911
 Poskode 8800 Fakskode & No 054 339 0892

Naam van Operateur in beheer van stortterrein:

..... J.J. HugSAMENTelefoonkode & nommer 054 3390892 Na-ure 083 2353725Identiteitsnummer.. S90126 5062 087

Opvoedkundige kwalifikasies (*). st 6 diploma
 st 8 hoër diploma
 matriek graad
 ander (spesifiseer).....

3. (a) Nuutste geskatte lewensduur van stortterrein 20 jaar(b). Dui die toepaslike tipe afval en hoeveelhede wat gedurende die jaar gestort is aan: MET VRAGMOTORS PER DAG

Tipe afval	Hoeveelheid (m ³ per jaar)	Gekompakteer(G)	Ongekompakteer(O)
<u>Nie-gevaarlike afval</u>	<u>128 000</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<u>Huishoudelike afval</u>	<u>50 000</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<u>Tuinafval</u>	<u>38 000</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<u>Industriële afval (nie-gevaarlik)</u>	<u>32 000</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
- (spesifiseer).....	<input type="checkbox"/>	<input type="checkbox"/>
-	<input type="checkbox"/>	<input type="checkbox"/>
TOTAAL	248 000 m³	<input type="checkbox"/>	<input type="checkbox"/>

Gevaarlike afval

- Ontvlambare vloeistowwe
- Ontvlambare vaste stowwe
- Oksideermiddels
- Giftige stowwe
- Bytende stowwe
- Hospitaal afval en smetstowwe
- (spesifiseer).....
-

TOTAAL

- (a) Dui die metode van afvalstorting aan (*). Landopbouing Landvulling
- (b) Dui die huidige afmetings van die terrein aan in meter.

Hoogte/diepte	... 511 ...
Lengte	... 600 m ...
Breedte	... 280 m ...

5. Dui die afvaltipes en hoeveelhede aan wat gedurende die jaar herwin is. (*)

Geen herwinning is onderneem nie

Tipe	Hoeveelheid(m ³)	Tipe	Hoeveelheid(m ³)
Papier/houtvesel	Rubber	.....
Plastiek	Tekstiele	.....
Glas	Yster	.....
Koper	Aluminium	.....
Sink	Lood	.....
Fosfogips	Poeierkoolas	.....
Afval vir kompostering	Voedselreste	.....
Brandbare gasse	Ander	.....
Ander	Ander	.....
Ander	Ander	.....

6. Dui die tipes, bronne en beraamde hoeveelhede beskikbare bedekkingsmateriaal aan (*).

Tipe	Bronne	Hoevelheid (m ³)
Grond
Sand	Duiwseind	ONTELBAAK
As
Gruis
Klei
Bourommel
Ander (spesifiseer)
.....
.....
.....

* Dui aan met 'n X

Handtekening

Toedanigheid

Plek Datum

ANGSEL V: VORM OM CHEMIESE INLIGTING TE RAPPOERTEER: VOORWAARDES 6 en 8

Naam van terrein:

Boorgat naam/nommer

Datum van monster

Tyd [] h []

Monster-
metode: Skep (S)

Pomp (P)

Tyd na aansit van pomp

[] h []

Monsterdiepte

Datum van Analise

Laboratorium

Fisiese parameters

pH [] . []

EG [] . []

TOS [] . []

Temp [] . []

S.G.

Makro chemie (mg/l)

Ca [] . []

Mg [] . []

Na [] . []

K [] . []

Si [] . []

P [] . []

Alk [] . []

Suur [] . []

P [] . []

Suur [] . []

Cl [] . []

SO₄ [] . []

N(NO₃) [] . []

F [] . []

Mikro chemie (mg/l)

Al [] . []

As [] . []

B [] . []

Cd [] . []

CN [] . []

Cr [] . []

Lu [] . []

Fe [] . []

Mn [] . []

Pb [] . []

Sr [] . []

Zn [] . []

Kommentaar

Besoedelingschemie

kleur [] mg/l

Pt [] mg/l

Reuk [] TON

Opgeloste suurstof [] mg/l

NTU

CSB [] mg/l

mg/l

Smaak [] TTN

Turbiditeit []

mg/l

(Ammoniak) [] mg/l

mg/l

N(NO₂) [] mg/l

N (Kjeldahl) [] mg/l

mg/l

enole [] mg/l

mg/l

PO₄ [] mg/l

H₂S [] mg/l

mg/l

Seep [] mg/l

mg/l

Seep [] mg/l

E. coli [] /100ml

mg/l

Chloor [] mg/l

mg/l

Vrye reste [] mg/l

Totale organiese koolstof [] mg/l

mg/l

Sulfied [] mg/l

mg/l

Metileenblou aktiewe stowwe [] LAS

Kommentaar

Ander mikro elemente (mg/l)

Ag [] . []

Au [] . []

Ba [] . []

Be [] . []

Bi [] . []

Br [] . []

As [] . []

Co [] . []

Hg [] . []

I [] . []

Li [] . []

Mo [] . []

Ni [] . []

Sb [] . []

Se [] . []

Te [] . []

Ti [] . []

Il [] . []

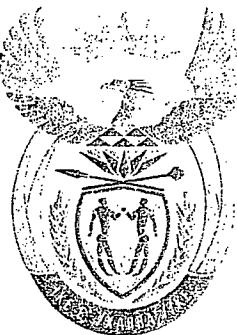
Cr [] . []

V [] . []

W [] . []

Kommentaar

2004 -04- 26

**DEPARTMENT: WATER AFFAIRS AND FORESTRY**

Private Bag X313, Pretoria, 0001
 Sedibeng Building, 185 Schoeman Street, Pretoria
 Tel: (012) 336-7500, Fax: (012) 323-4472 / (012) 326-2715

539.WM.18-03-2004

Wilna Moolman

F - ☎ 012-323 0321

✉ 012-336 7557

E - ☎ tei@dwaf.gov.za

✉ 16/2/7/D700/D1/Z1

Munisipale Bestuurder
 //Khara Hais Munisipaliteit
 Privaatsak X6003
 UPINGTON
 8800

Aandag: CG Kuun

WYSIGINGSPERMIT VIR DIE DUINE AFVALSTORTTERREIN KAGTENS ARTIKEL 20 VAN DIE WET OP OMGEWINGSBEWARING, 1989 (WET 73 VAN 1989): PERMIT NOMMER B33/2/442/1/P68

Die Minister ag dit nodig om die Permit: B33/3/442/1/P68 as volg te wysig.

Kragtens die bevoegheid aan my gedelegeer deur die Minister van Waterwese en Bosbou (hierna verwys as "die Minister") verleen ek, Cornelius Ruiters, in my hoedanigheid van Bestuurder: Waterbenutting van die Departement van Waterwese en Bosbou (hierna genoem "die Departement"), hiermee, kragtens artikel 20(1) van die Wet op Omgewingsbewaring, 1989 (Wet 73 van 1989), toestemming om die Duine-afvalstortterrein se Permit soos volg te wysig:

(gewysig) PERMITNOMMER: 16/2/7/D700/D1/Z1/P68

(gewysig) TIPE: G:M:B

(gewysig) PERMITHOUER: //KHARA HAIS MUNISIPALITEIT.

(gewysig) PERMITVOORWAARDES

In hierdie Permit beteken "Streekdirekteur" die Streekdirekteur: Noord-Kaap van die Departement, wat by die volgende adres gekontak kan word:

Streekdirekteur: Noord-Kaap
 Departement van Waterwese en Bosbou
 Privaatsak X5912
 UPINGTON
 8800

(gewysig) Voorwaarde 2.2.1

geen mediese afval op die Terrein gestort word nie; en

(gewysig) Voorwaarde 5.5

Afval wat op die Terrein gestort is, mag herwin word. Die herwinning mag nie die daaglikse bedryfsaktiwiteite van die Terrein belemmer nie.

(bygevoeg) Voorwaarde 5.7

Die Permithouer moet rekord hou van die volume en aard van die afval wat herwin word en moet dit jaarliks aan die Streekdirekteur rapporteer.



BESTUURDER: WATERBENUTTING
p.p. MINISTER VAN WATERWESE EN BOSBOU

DATUM: 30/03/2004

Afskrif aan: Chantelle van Wyk, DWAF Noord-Kaap, Privaat Sak X5912, UPINGTON, 8800