W E S A W

THE KATHU FOREST ECOSYSTEM?

By Tania A. Anderson & Mark D. Anderson

unique Camel Thorn forest in the southern Kalehari is being threatened by up-marker housing developments and a developmental boom in the
once-sleepy town of Kathu. The forest's
survival depends on political will and the
full commitment of the various stakeholders to protect the untransformed part of

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this seaufful ecosystem, and the various of the
best protection of the various of the various of the
test protection of the various of the various list ean density of the camel thorn
trees. It is one of only two such woodlands in the world, with the other being
between Mariental and Rehoboth in
Namible. Its uniqueness was recognised
as early as 1920, when it was declared a
State Forest. In 1956 this forest was
deproclaimed to allow for the establishment of the town of Kathu, "the town
under the trees", for Sishen mine's workers, in the southern portion of the woodland. In 1995, on the request of the
landowners, several properties containing
the largest part of the Kathu Forest were
registered as a Natural Heritage Site. The registered as a Natural Heritage Site. The landowners agreed to protect the Kathu Forest, and the municipality committed itself to only allowing developments to the south of the town - thus away from the

Nature Porest Natural Heritage Site. Ashu Forest is considered worth protecting for scientific, biodiversity, landscape and eco-tourism reasons. Surveys have shown a moderate to high diversity in plant and ani-mal species, including several Red Data, endemic and protected species. Today there is widespread support from various stakeholders for the protection of the Kathu Freets.

Threats to the Kathu Forest are not new, as it has had a long history of utilisa-tion by man dating back to 800 000 years ago, to which billions of artefacts at one of the richest archaeological sites in the world testift, More recently, an article by the late Dr Richard Liversidge in African Wildlife Vol. 55 No. 3 (2001) exposed mis-management of parts of the Kathu Forest. management of parts of the Kathu Forest, and in the same volume of African Wildlife, we raised concerns about the sustainability of harvesting protected Camel Thorn trees from the Natural Heritage Site for the fuel-wood market. Kathu is currently experiencing a developmental boom, and it is expected to almost triple in size within a decade. Developments on the cards include two controversial unmarket busing develop.

controversial up-market housing develop-ments to the north of the town, and new and expanding mines. In response to inadequate environmental impact studies, the first author raised concerns about the effects of the proposed development on the Kathu Forest's ecological integrity, and

Kathu Forest Natural Heritage Site. Kathu the potential loss of biodiversity. The need the potential loss of biodiversity. The need for further ecological, ancheological and from the form of the form o

nisuse for the foreseeable future. We also question whether there will be sufficient groundwater to sustain the Camel The support of the sustain the Camel The support of the sustain the Camel The support of the sustain the Strategic Environmental Development Plan of the Kgalagadi District Municipality records Kathu Forest as a sensitive habitat with significant tourism potential, and recommends that it be mapped as a conservation node in spatial plans, that no development Plan of the support of the kgalagadi District Municipality support of the kgalagadi District Municipality and the support of the kgalagadi District Municipality is pastial Development Plan of the support and that these should be reserved for tourism-related activities. The develop-ment areas indicated in the spatial devel opment maps, however, appear to be in conflict with the higher order plans, and there is a difference of opinion on how strictly the guidelines of the SDF should

be interpreted. Currently the SDF is being adapted to suit new developments – instead of guiding them – because the local authority is swamped by the extent of new developments and the service pro-

of new developments and the service provision thereof.

In April 2006, a request was made to the Department of Water Affairs and Forestry (DWAF) for emergency protection of the Kathu Forest under the emergency clause of the National Forests Act of 1998 (NFA). As a result, a working group was formed which included the DWAF, WESSA: Northern Cape, the Botanical Society of South Africa, Gamagara Municipality, the Northern Cape Department of Tourism, Environment and Conservation (DTEC), as well as the national Department of Environmental Affairs and Tourism (DEAT). This working group investigated the conservation options for the Kathu Forest, and made certain recommendations to the DWAF.

Expert reports for the scoping study of Expert reports for the scoping study of one up-market development, Kalahari Gholf en Jag Landgoed, showed that the Kathu Forest is seriously under-protected. Between 27 and 34 per cent of the forest has already been transformed, and this could reach 35 per cent should the proposed up-market developments proceed. According to the National Spatial Biodiversity Assessment for South Africa, the threshold at which an ecosystem could sity Assessment for South Africa, the threshold at which an ecosystem could become critically endangered is when only 16 to 30 per cent of the natural ecosystem remains. For a forest ecosystem the threshold could be as high as 70 per cent, and as this has already been reached for the Kathu Forest, it could already be considered critically endangered. Initially it was decided that there were sufficient counds for emperature were sufficient counds for emperature were sufficient counds for emperature were

Initially it was decided that there were sufficient grounds for emergency protec-tion, based on the preliminary investiga-tions and the decisions taken at a meeting of the Kathu Forest Working Group. After further meetings with the DTEC and the developers, the DWAF decided, however,

that securing protection under Section 12 of the NFA was the better option. Dr Bruce McKenzie of the Botanical Society proposed recognising the forest as a protective de environment under the National Environmental Management Protected Areas Act (2003).

Act (2003).

In response, the developers of the Kalahari Gholf en Jag Landgoed altered their development plans to avoid impacts on the core areas of the Kathu Forest and committed to affording formal protection to the remaining 2000 hectares of the property previously owned by Sishen Mine. The developers have started negoti-Mine. The developers have started negoti-ations with an adjacent private landowner, as well as Sishen Mine, in an attempt to create a larger conservation area that would eventually include more than 70 per cent of the Kathu Forest. Once formal pro-tection is secured, all parties will comply with a biodiversity management plan developed by the DTEC. Funds for the management of the land will be provided through additional levies administered hy management or the land will be provided through additional levies administered by the Home Owners' Association and writ-ten into the title deeds of the property owners. Owners of the land on which the remainder of the Kathu Forest occurs, will also be included in future discussions about the establishment of the protected area.

area.
In December 2006, the DWAF submit-In December 2006, the DWAF submit-ted their request to the Minister of Water Affairs and Forestry to declare the Kathu Forest a protected woodland. Such pro-tection will allow current land use prac-tices to continue, but will safeguard the woodland against future detrimental anthropogenic influences. The core area of dense woodland will be regarded as the prime conservation area, while the devel-cement of limited Inswingard, exposurism opment of limited low-impact, ecotourism facilities may be allowed in the second class of more open woodland. Low density residential eco-estates may be considered in the buffer area (comprising the third class of open woodland), but with

compensative actions to provide for the protection of the primary conservation

A record of decision recently issued for the Kalahari Gholf en Jag development was not explicit enough on, inter alia, measures for formal protection of the forest. On the advice of the Scientific Services section of the DTEC, it is being revised to include more detailed conditions and the commitments of the developer. A task team will soon be established by the DTEC to tackle the process of formally declaring the forest as a protected environment. It is of utmost importance that, before any other developments that may A record of decision recently issued ronment. It is of utmost importance that, before any other developments that may impact on the Kathu Forest are approved, the formal protection of the forest is secured by the DWAF and DTEC. An issue that needs further investigation is the potential impact that increased abstrac-tion of groundwater may have on the ecosystem.

If this initiative to protect Kathu Forest If this initiative to protect Kathu Forest comes to fruition, the community of Kathu will reap the benefits of having a very important conservation area and tourist attraction on their doorstep. In the past South Africans have failed dismally at acting rather than talking when it came to environmental management and legislation to protect our biodiversity. Let's hope for the sake of the Kathu Forest that our actions in this instance will full sur proud actions in this instance will do us proud.

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The Camel Thorn tree, Acacia erioloba, is a protected tree under the National Forests Act of 1998. Camel thorns provide support for large Sociable Weaver nests (in left side of tree) and are used by many other bird and animal species.

The density of Camel Thorn trees below three metres in height.

A section of closed woodland in the Kathu Forest, with some trees more than eight metres in height

The Sishen golf course in the southern part of the Kathu Forest – the centre of a new upmarket development.

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