

Environmental Scoping: The Potential Impacts on the Vegetation of the Proposed Kleinzee 300MW Wind Farm, Northern Cape



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DETAILS OF SPECIALIST AND DECLARATION OF INTEREST

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

PROJECT TITLE

Proposed Kleinzee 300MW Wind Farm in the Northern Cape Province

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4.2 The specialist appointed in terms of the Regulations_

I, David Jury McDonald, declare that --

General declaration:

- I act as the independent specialist in this application
- I will perform the work relating to the application in an objective manner, even if this results in views and findings that are not favourable to the applicant
- I declare that there are no circumstances that may compromise my objectivity in performing such work;
- I have expertise in conducting the specialist report relevant to this application, including knowledge of the Act, regulations and any guidelines that have relevance to the proposed activity;
- I will comply with the Act, regulations and all other applicable legislation;
- I have no, and will not engage in, conflicting interests in the undertaking of the activity;
- I undertake to disclose to the applicant and the competent authority all material information in my possession that reasonably has or may have the potential of influencing - any decision to be taken with respect to the application by the competent authority; and - the objectivity of any report, plan or document to be prepared by myself for submission to the competent authority;
- all the particulars furnished by me in this form are true and correct; and
- I realise that a false declaration is an offence in terms of Regulation 71 and is punishable in terms of section 24F of the Act.



Signature of the specialist:

Bergwind Botanical Surveys & Tours CC

Name of company (if applicable):

5 July 2011

Date:

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1. INTRODUCTION

Savannah Environmental (Pty) Ltd has been appointed by Eskom Holdings Limited to carry out an Environmental Impact Assessment process in support of an application for authorisation for construction of a wind energy facility (or wind farm) (WEF) and associated infrastructure, including power transmission lines located south and east of Kleinsee in the Northern Cape. The transmission lines will link the WEF to Gromis Substation that is approximately 16 km north-east of the site. For this purpose several specialist studies are required including a study of the impacts of the proposed facility on the vegetation of the local area.

Bergwind Botanical Surveys and Tours CC was appointed by Savannah Environmental (Pty) Ltd to conduct a botanical impact assessment of the study area. This desk-top scoping report is part of the first phase of this process. The main objective of the scoping assessment is to determine if there are any 'red flag' issues or potential fatal flaws from a botanical perspective that may negatively influence the outcome of the application for authorisation of the project.

This is a desktop assessment for the scoping assessment and as such has limitations since a first-hand field assessment of the actual site is yet to take place.

2. TERMS OF REFERENCE

The terms of reference for the scoping assessment are:

- To broadly describe the terrestrial vegetation and flora of the study area that will be affected by the proposed wind farm project;
- To provide a description of possible impacts (direct, indirect and cumulative) that are anticipated;
- The impacts are to be evaluated in terms of (1) the **nature** of the impact i.e. what would cause the impact, what would be affected and how it would be affected, and (2) the **extent and scale** of the impact i.e. whether the impact will be **local** (limited to the study area), **biome-wide**, **regional**, **national** or **international**.
- To provide recommendations for the methods to be employed for assessment of potentially significant impacts in the EIA phase

3. METHODOLOGY

The approach to the assessment of the vegetation and flora of the proposed Eskom Kleinzee Wind Energy Facility is a two-step approach which will be applied to both the site and the transmission lines route. The first instance is a desktop Scoping Phase assessment (this report) which was carried out to review the literature and accumulate information e.g. a plant species checklist, maps etc. to inform the second phase which will be an Environmental Impact Assessment phase, based on a site visit where data and additional information is to be obtained first-hand will be integrated into the assessment. The methods employed in the field will be standard vegetation survey methods developed to conduct rapid appraisal of the vegetation found on any given site. This entails recording of geo-referenced ‘sample waypoints’ where lists of plant species are compiled and a photographic record made of the vegetation. Condition of the site in terms of historical and current disturbance is also assessed. The recorded information provides a basis for the description of the site, physiognomy and floral composition of the vegetation and for the assessment of potential impacts.

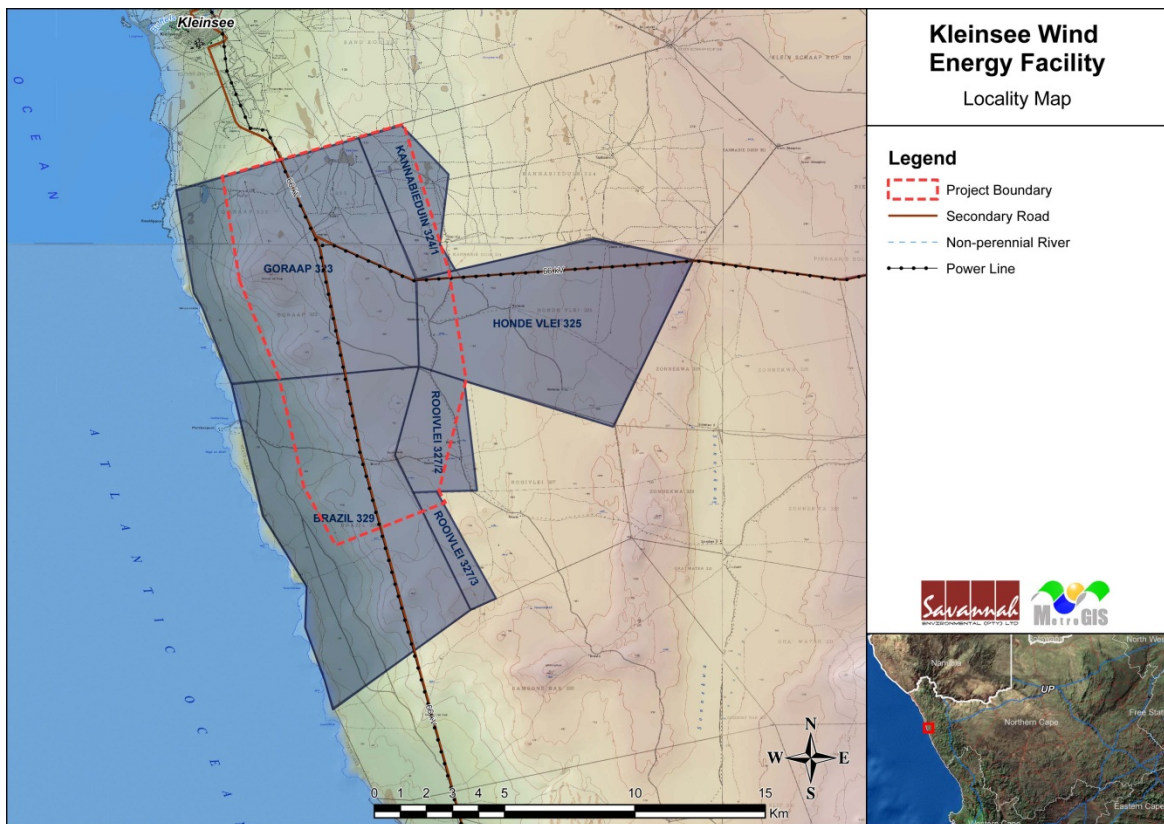


Figure 1. Location of the proposed Kleinzee Wind Energy Facility and power lines on the Namaqualand coast, Northern Cape Province.

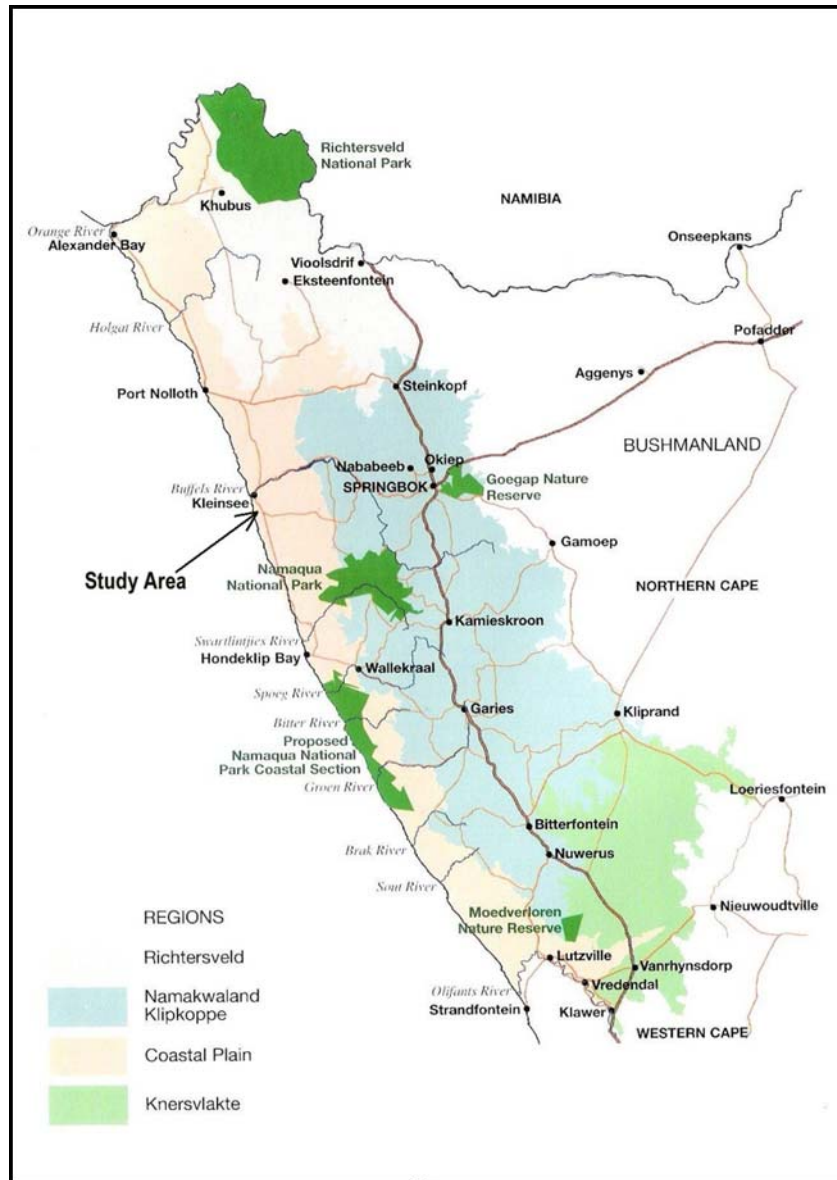


Figure 2. Broad regions of Namaqualand after Le Roux (2005), showing the position of the study area.

4. STUDY AREA

4.1 LOCATION

At a broad scale the study area is located in Namaqualand in the Nama Khoi Local Municipality, Northern Cape Province. At a more specific scale the WEF study area is located approximately 6 km south of the town of Kleinzee within the De Beers Diamond Mine area on the coast of Namaqualand, inland of Melkbospunt, Jakkalsbaai and Thys se Baai. It comprises the farms RE Brazil 329; RE Goraap 323; RE Honde Vlei 325; RE Kannabieduin 324 and Portions 2 & 3 of Roovlei 327,

together covering an area of ~9300 ha (Figure 1). The area falls within the Succulent Karoo Biome south of the Buffels River on the 'Coastal Plain' which also is often called the Sandveld or Namaqualand Sandveld Bioregion (Figure 2) (Van Wyk & Smith, 2001; Le Roux, 2005; Rutherford, Mucina & Powrie, 2006).

4.2 GEOLOGY, TOPOGRAPHY AND SOILS

The region of the study area is underlain by rock of the Namaqua-Natal Metamorphic Belt (Cornell *et al.* 2006). On the coast the surface geology consists of deep stabilized aeolian sands (Quaternary) that are white to grey and calcareous, overlying marine sediments that are composed of calcrete or dorbank hardpans. Immediately above the high-water mark the coastline has exposed granite of the Dikgat and Brazil Formations (Goraap Suite) (Marais, 2001). Further inland the soils are yellow sands becoming either red or yellowish-red overlying granite and gneisses. The undulating coastal plain is about 30 km wide and separates the coast from the inland Namaqualand Klipkoppe comprising Mokolian granites and gneisses that form domes and rock sheets and weather to form yellow-brown to brown loamy sand (Mucina *et al.* 2006). Le Roux (1991) described the coastal Sandveld topography as consisting of three major landforms, based on the presence or absence of dunes: unstable dunes, semi-stable dunes and shallow, flat sand.

Low and Desmet (2007) describe the coastal zone incorporating the study area as having parabolic dune fields stretching south-north parallel to the coast. The dunes are further described as undulating with gentle hummocking and are partially vegetated.

The study site for the proposed Eskom wind farm is located in a zone consisting of grey calcareous sands (supporting coastal duneveld) transitional to yellowish sands (supporting strandveld) (see below).

4.3 CLIMATE

The Namaqualand coastal region is arid and experiences winter rainfall. A rainfall gradient from the coast to inland has been described for the area south of Kleinzee where mean annual precipitation is 75 mm on the coast increasing to 160 mm in the inland uplands. This information is extrapolated from meteorological data collected at Koingnaas, much further south than the study

area (Burger 2007 in Arcus Gibb 2008). Le Roux (2005) states that the coastal belt between Port Nolloth and Groen River, which includes the study area, receives between 50 and 100 mm rain per annum. However, climate diagrams published for Namaqualand Coastal Duneveld (Figure 3) and Namaqualand Strandveld (Figure 4) (Mucina *et al.* 2006) indicate that the rainfall is in excess of 100 mm for the areas where these vegetation types occur. This suggests that the mean annual precipitation (MAP) values shown in Figures 3 and 4 represent areas further south than Kleinzee.

A rainfall graph for Kleinzee obtained from www.worldweatheronline.com (Figure 5) indicates that Kleinzee experiences 98 mm rainfall *per annum* which agrees more closely with the figures quoted by Le Roux (2005).

The mean maximum temperature does not vary much throughout the year whereas there is a slightly greater amplitude in mean minimum temperature (Figure 6). This is due to the proximity to the Atlantic Ocean and the effect of the Benguela Current with regular fog occurring over the coastal zone. However, there are extremes with summer temperatures as high as 40 °C having been recorded at Koingnaas (November 2006) and regularly above 30 °C away from the coast inland from Brazil. Winter temperatures can fall to 4 °C (Koingnaas: June 2006).

Temperatures can also be influenced by easterly berg wind conditions (off shore flow) in winter when the temperature may exceed 35 °C.

The prevailing surface winds are mostly from the south and south-east in the summer when winds are strong and speeds can exceed 10 m/s. Strong winds can also occur from the west and north-west, mainly in winter.

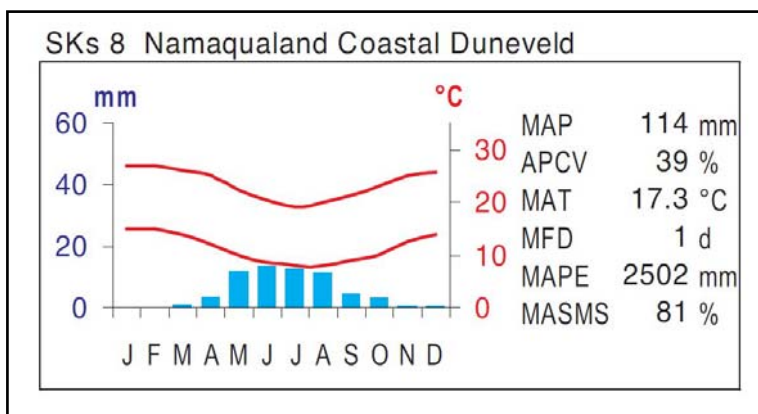


Figure 3. Climate diagram for Namaqualand Coastal Duneveld (from Mucina *et al.* 2006).

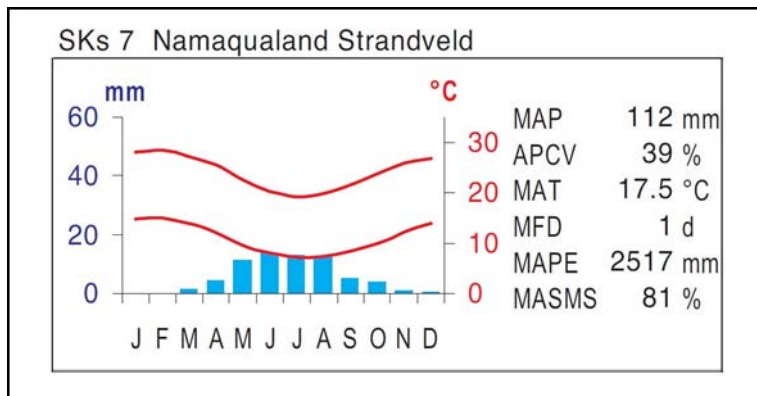


Figure 4. Climate diagram for Namaqualand Strandveld (from Mucina *et al.* 2006).

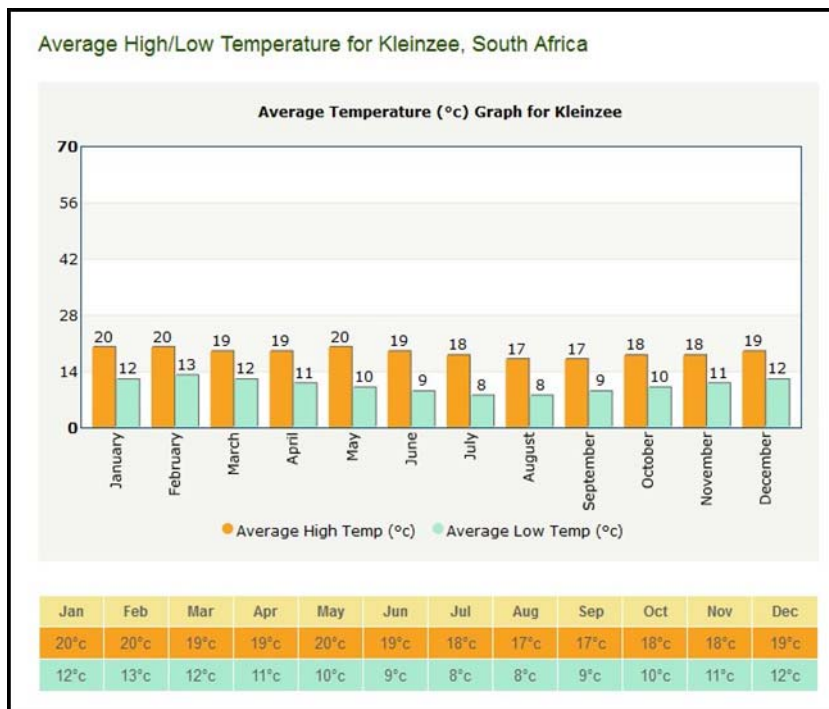


Figure 5. Average monthly temperatures for Kleinzee (source: <http://www.worldweatheronline.com/weather-averages/South-Africa/2610093/Kleinzee/2614644/info.aspx>)

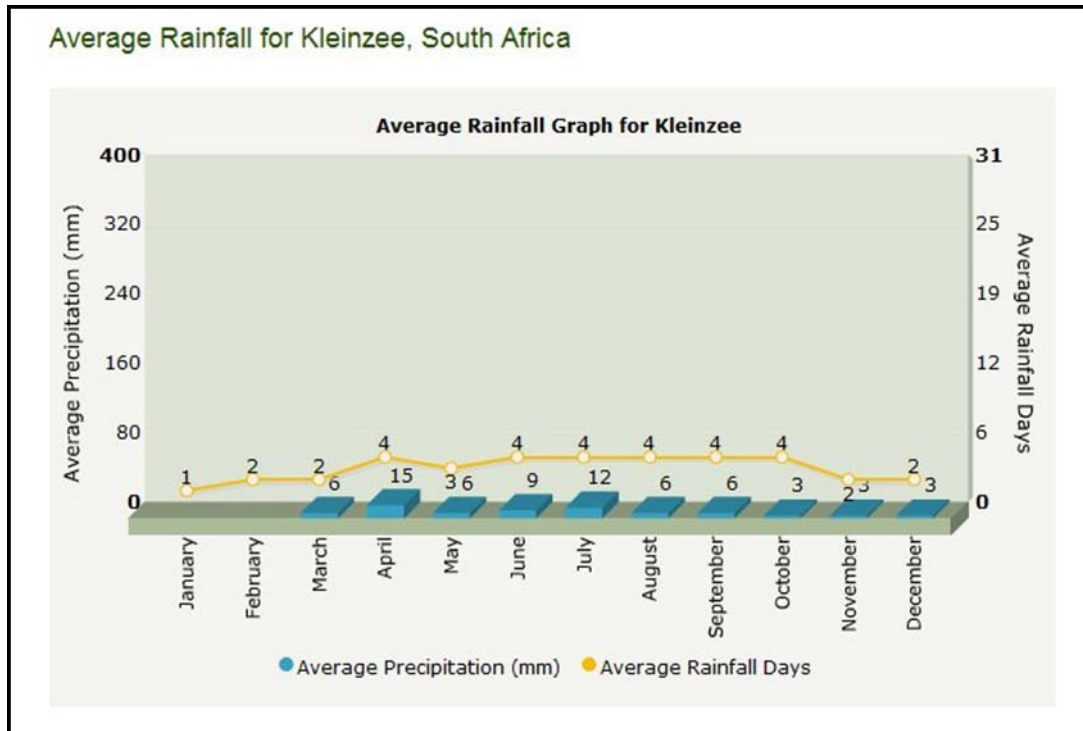


Figure 6. Average monthly rainfall for Kleinzee
 (source: <http://www.worldweatheronline.com/weather-averages/South-Africa/2610093/Kleinzee/2614644/info.aspx>)

5. THE VEGETATION

5.1 Broad context

Nationally the study area falls within the extensive, arid Succulent Karoo Biome (Rutherford & Westfall, 1994; Mucina *et al.* 2006 in Mucina & Rutherford, 2006) and regionally within the Namaqualand Sandveld Bioregion (Figure 7). At a local scale, apart from azonal Namaqualand Seashore Vegetation (AZd2) and the vegetation associated with salt pans (AZi2), two main vegetation types are found in the study area, Namaqualand Coastal Duneveld (SKs8) on the semi-mobile coastal dunes and Namaqualand Strandveld (SKs7) found on red to yellow stabilized aeolian sand overlying a basement of marine sediments and granite-gneisses.

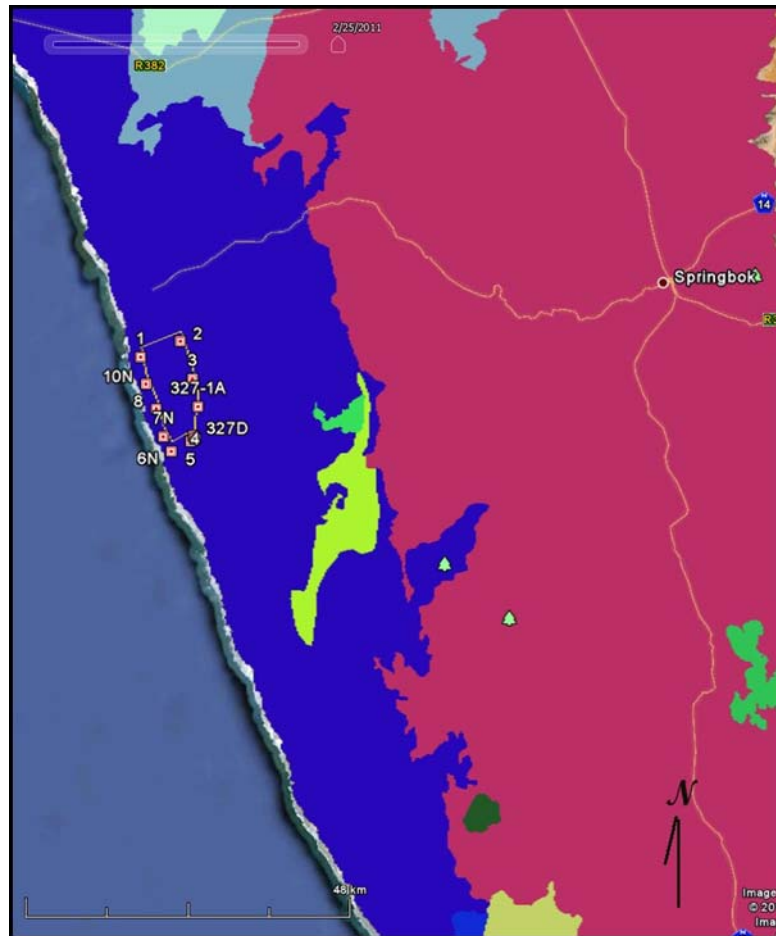


Figure 7. Portion of the bioregions map from Mucina, Rutherford and Powrie (2005) with the dark blue indicating the Namaqualand Sandveld bioregion. The footprint of the proposed wind energy facility is shown with position markers near the coast.

5.2 Local vegetation communities

Owing mainly to restricted access to the diamond-mining area along the Namaqualand coast there have been few detailed botanical studies in the coastal sandveld of Namaqualand. Le Roux (1991) in a study of Brazil recognized three major plant communities: *Zygophyllum cordifolium*–*Drosanthemum marinum* Shrubland with *Stoeberia beetzii*–*Wooleya farinosa* Shrubland on flat, shallow sands and *Zygophyllum morgsana*–*Arctotis scullyi* (syn. *A. merxmulleri*) Shrubland on unstable to semi-stable white dunes. Low & Desmet (2007) observed that the dunes in the south of the Brazil area are unstable and poorly vegetated but overall the vegetation is in medium to good condition with 43 species found in the above communities. These species include *Fenestraria*

rhopalophylla subsp. *aurantiaca* the “window succulent”, also of conservation importance.

The broad vegetation types recognized by Low & Desmet (2007) are shown in Figure 8 as determined for their study at Brazil and Schulpfontein. Their map has been modified to show the location of the footprint of the proposed wind farm in relation to the vegetation types (Figure 8). The wind farm will affect only Namaqualand Coastal Duneveld and Namaqualand Inland Duneveld following the classification of Low & Desmet (2007).

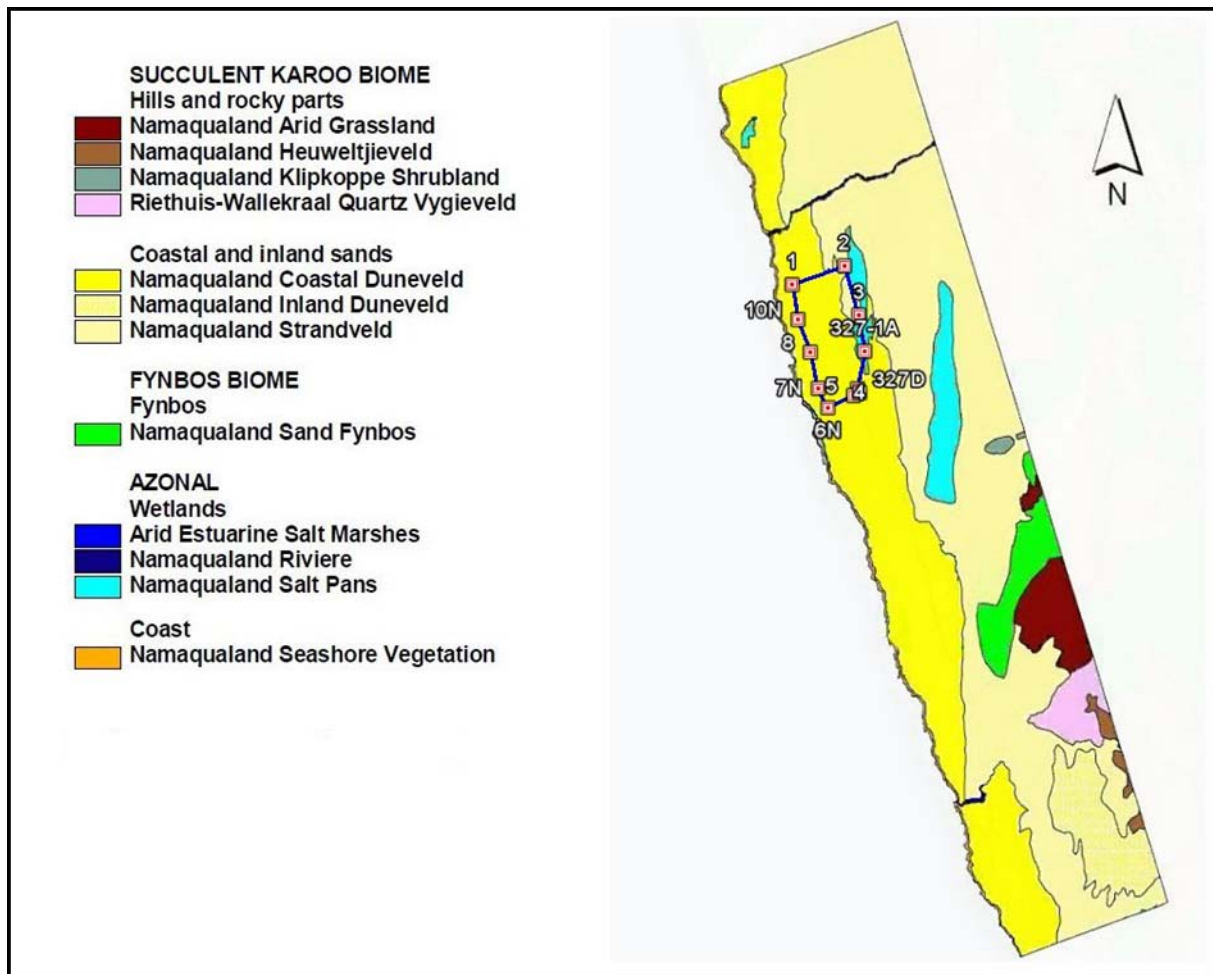


Figure 8. Vegetation map of the area immediately south of Kleinzee, modified from Low & Desmet (2007). The footprint of the proposed wind energy facility is shown with position markers near the coast and impinges on two vegetation types, Namaqualand Coastal Duneveld and Namaqualand Inland Duneveld.

5.3 Plant species

A checklist of plant species recorded from the quarter degree grids where the study area is located was obtained from the South African National Biodiversity Institute SIBIS database (*Accessed through the SIBIS portal, sibus.sanbi.org, 2009-06-01*) – Appendix 1. The status of the species listed was obtained from the Red List of South African Plants (Raimondo *et al.* 2009).

Wooleya farinosa (Figure 9) is a Namaqualand Coastal Sandveld endemic species and therefore has important conservation value. It has been impacted by diamond-mining along the Namaqualand coast and is listed as RARE (Raimondo *et al.* 2009) although locally dominant not only on sandy dune substrates but also on granite-gneisses (Low & Desmet, 2007).

Several Namibian endemic plant species may occur in the vegetation found at Brazil (Low & Desmet, 2007) and by interference could occur on the remainder of the site being considered for the proposed Eskom Kleinzee Wind Farm. Particular attention must therefore be paid during the EIA process to the possibility of encountering endemic plant species and to the conservation value of the vegetation of the area.



Figure 9. *Wooleya farinosa* – a rare endemic species from the Namaqualand Sandveld bioregion. (Photo: <http://www.succulentguide.com>)

5.4 Condition of the vegetation and conservation status

Low & Desmet (2007) found that despite the high impact of diamond mining on the coast south of Kleinzee, the vegetation has survived well. They state for the area they surveyed at Brazil that,

“Vegetation along this coastline is in remarkably good condition given the ravages of diamond mining over the years. However, vegetation types in the area are poorly conserved Except for the southern section, most of the site is rated highly (mainly 60 – 80%) for conservation importance.”

It is anticipated that the further away from the mining operations the better the condition of the vegetation. Therefore it is expected that in the ‘inland’ areas of Brazil and Goraap and in the areas of Kannabieduin, Roovlei and Honde Vlei falling within the designated footprint, the vegetation will be in good condition.

5.4.1 Restoration activity

Restoration intervention is in progress to restore mined areas back to natural vegetation. This activity is being undertaken under the Namaqualand Restoration Initiative, championed by the Dr Peter Carrick and the Plant Conservation Unit, University of Cape Town (UCT, 2007). If any of the proposed wind turbines in the Eskom Wind Farm layout would impact any of the restored areas, particular attention should be directed at mitigating any negative effect on the restoration work.

5.4.2 Critical Biodiversity Areas

Critical Biodiversity Areas (CBAs) within the Namaqualand District Municipality (NDM) were mapped by Desmet and Marsh (2008). The footprint of the study area including the power line route falls outside any CBA but does fall within the coastal corridor that has conservation importance. This is supported by the view of Low & Desmet (2007) that had the Nuclear 1 project proceeded, at either Brazil or Schulpfontein, the surrounding area that would have been conserved would have been highly beneficial for conservation of the Namaqualand coastal vegetation which is otherwise poorly conserved in formal conservation areas.

The compatibility of the proposed Eskom Kleinzee Wind Farm with conservation objectives of the coastal corridor should be carefully assessed in the EIA phase of the project.

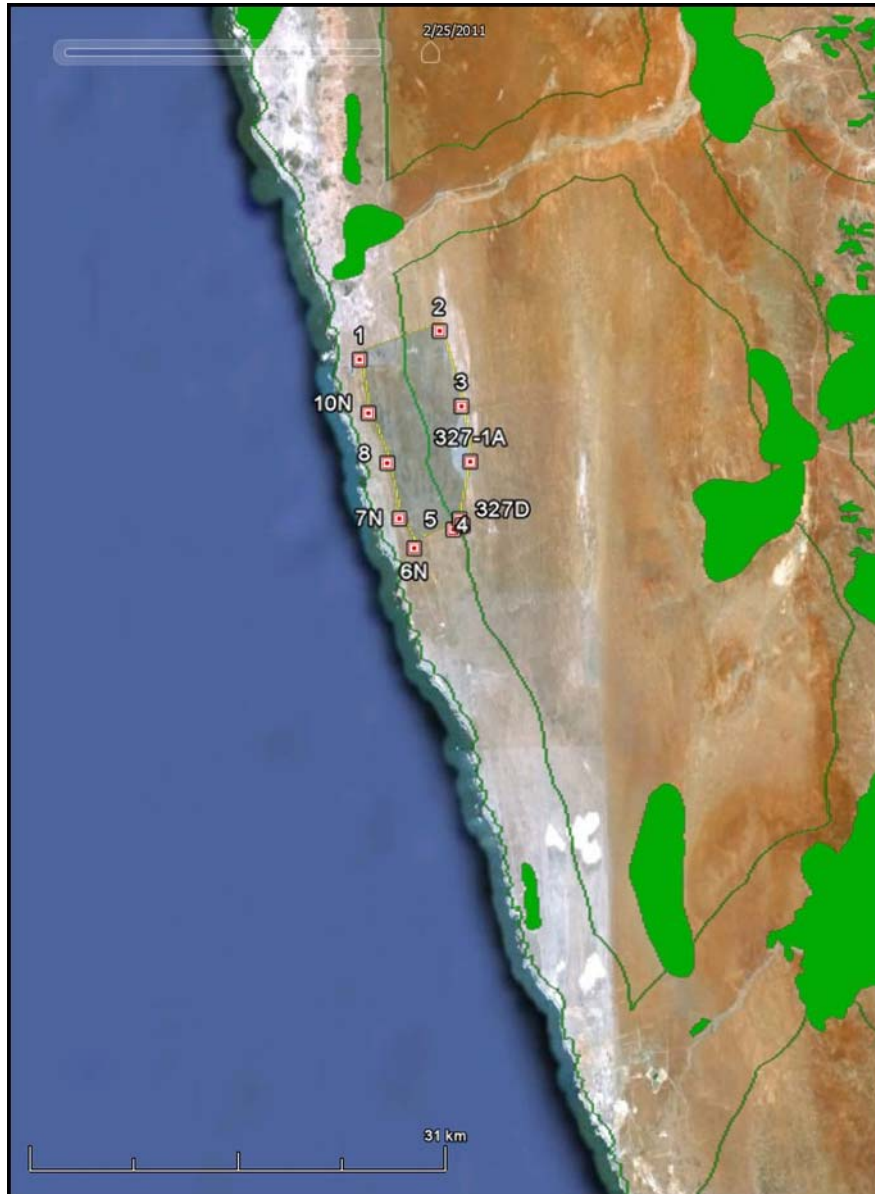


Figure 10. Portion of the mapped Critical Biodiversity Areas (CBA's) and Ecological Support Areas (ESAs) for Namaqualand District Municipality – shown together as green shading. The wind-farm footprint is outlined by the numbered position markers.

6. RISKS AND POTENTIAL IMPACTS

Potential impacts examined here will be restricted to those impacts that would affect vegetation communities, their habitats and their constituent plant species. The impacts could affect ecological processes and consequently ecosystem function. The possible impacts identified are:

- Impacts on plant species of high conservation value i.e. Red List species and endemics whereby their population dynamics would be negatively affected.
- Impacts on plant communities through fragmentation that would lead to loss of constituent species and negatively impact the cohesiveness of the communities.
- Loss of habitat due to degradation of plant communities.
- Loss of ecosystem function due to changes in such factors as hydrological regime, increased edge effect, disturbance of successional processes, disturbance of pollination processes and possible invasion by alien plant species.

The greatest risk to the vegetation and flora would be during the construction phase of the wind energy facility when the following activities would be required:

- Construction of access roads
- Clearing of vegetation for the turbine pedestals and construction lay-down areas
- Trenches for cables and the requirement for construction of pylons for overhead power-lines.
- Operation of machinery and vehicles which could result in undesirable soil compaction.
- Possible fuel and chemical (cement) contamination.

Maintenance of the wind energy facility (operational phase) would pose lower risks to the vegetation. Only the access roads, immediate area around each turbine and the power transmission lines would need to be accessed, leaving the remaining area within the footprint relatively undisturbed.

7. PROPOSED EIA METHODOLOGY

The potential impacts on the plant communities in the study area that will initially be identified and described will be assessed according to standard assessment practice. The Nature, Duration, Extent, Magnitude, Probability and Significance of each of the identified impacts will be assessed. In addition the presence of Red List and endemic species will be given special attention to ensure that they are carefully taken into consideration when designing layouts of the proposed turbines. This information will be summarized together with the sensitivity of plant communities and habitats in a sensitivity map that would be crucial to inform the design phase of the proposed project.

8. CONCLUSIONS

The vegetation of the coastal zone of Namaqualand between Koingnaas and Kleinzee is not well-documented. However, enough literature is available, as referred to above, to obtain a good overview of the vegetation and habitat that is to be found in the area of the wind energy facility footprint. No fatal flaws are anticipated from a botanical viewpoint but there are a few 'red flags'. The latter concerns the possible presence of rare and endemic plant species in the study area. This requires attentive field-work and the highlighting of possible "no go" areas in the EIA phase. Once the assessment of potential impacts is carried out, suitable mitigation measures to deal with any negative impacts will be recommended for implementation. These mitigation measures will address any instances where turbine location and other infrastructure such as roads and underground cables may impact on areas where vegetation restoration has taken place.

9. REFERENCES

- Arcus Gibb, 2008. ESKOM Nuclear Power Station and Associated Infrastructure – Final Scoping Report. Arcus Gibb (Pty) Ltd Report No. J 27035
- Cornell. D.H., Thomas, R.J., Moen, H.F.G., Reid, D.L., Moore, J.M. and Gibson, R.L., 2006. The Namaqua-Natal Province. In: Johnson, M.R., Anhaeusser, C.R. & Thomas, R.J. (eds), *The Geology of South Africa*. The Geological Society of

- South Africa (Johannesburg) and the Council for Geoscience (Pretoria), pp. 325—379.
- Driver, A, Desmet, P, Rouget, M, Cowling, R & Maze, K (2003). *Succulent Karoo Ecosystem Plan: biodiversity component. Technical Report*. Cape Conservation Unit, Report No CCU 1/03, Botanical Society of South Africa, Claremont
- Le Roux, A. (1991). NSIP West Coast: Site-Specific Environmental Study - Assessment of the Sensitivity of Vegetation on Tweepad, Brazil and Schulpfontein. Environmental Evaluation Unit, University of Cape Town for ESKOM.
- Le Roux, A. 2005. *South African Wild Flower Guide 1: Namaqualand* – Third revised edition. Botanical Society of South Africa, Cape Town.
- Low, A.B. & Desmet, P. 2007. Nuclear 1 Environmental Impact Assessment and Environmental Management Plan: Specialist Study (Botany) for Inception Report. Arcus Gibb (Pty) Ltd and ESKOM Holdings Limited, Generation Division.
- Marais, J A H (2001) (compiler). 2916 Springbok 1:250 000 geological sheet. Government Printer, Pretoria
- Mucina, L., Rutherford, M.C., & Powrie, L.W. (eds.). 2005. *Vegetation map of South Africa, Lesotho, and Swaziland 1:1 000 000 scale sheet maps*. South African National Biodiversity Institute, Pretoria. ISBN 1-919976-22-1.
- Mucina, L., Jürgens, N., Le Roux, A, Rutherford, M.C., Schmiedel, U., Esler, K.J., Powrie, L.W., Desmet, P.G. & Milton, S.J. 2006. Succulent Karoo Biome. In: Mucina, L., & Rutherford, M.C. (Eds.). 2006. The Vegetation of South Africa, Lesotho and Swaziland. *Strelitzia* 19. South African National Biodiversity Institute, Pretoria.
- Raimondo, D., Von Staden, L., Foden, W., Victor, J.E., Helme, N.A., Turner, R.C., Kamundi, D.A. & Manyama, P.A. (eds) 2009. Red List of South African plants 2009. *Strelitzia* 25. South African National Biodiversity Institute, Pretoria.
- Rutherford, M.C. & Westfall, R.H. 1994. Biomes of southern Africa: An Objective Categorization. Memoirs of the Botanical Survey of South Africa No. 63. National Botanical Institute, Pretoria.

Rutherford, M.C., Mucina, L. & Powrie, L.W. 2006. Biomes and Bioregions of Southern Africa. In: Mucina, L. & Rutherford, M.C. 2006. (eds.) The Vegetation of South Africa. Lesotho & Swaziland. *Strelitzia* 19. South African National Biodiversity Institute, Pretoria. pp. 31-51.

UCT 2007. Namaqualand: From dumps to daisies. Monday Paper Archives Vo. 26. 17. University of Cape Town.

Van Wyk, A.E. & Smith, G.F. 2001. *Regions of Floristic Endemism in Southern Africa*. Umdaus Press, Pretoria.

Website:

<http://www.worldweatheronline.com/weather-averages/South-Africa/2610093/Kleinzee/2614644/info.aspx>

Appendix 1: Preliminary plant species checklist for the area of the Kleinzee Wind Energy Facility

LC= Least concern; VU = Vulnerable; DDD = Data deficient, declining; DDT – Data deficient – taxon uncertain; NT= Near threatened; RARE = rare species; ?? = Status unknown

Family Name	Species Name	Status
AIZOACEAE	<i>Galenia crystallina</i> var. <i>crystallina</i>	LC
AIZOACEAE	<i>Galenia fruticosa</i>	LC
AIZOACEAE	<i>Galenia sarcophylla</i>	LC
AIZOACEAE	<i>Galenia secunda</i>	LC
AIZOACEAE	<i>Malephora crocea</i> var. <i>crocea</i>	LC
AIZOACEAE	<i>Mesembryanthemum serotinum</i>	??
AIZOACEAE	<i>Tetragonia distorta</i>	DDT
AIZOACEAE	<i>Tetragonia fruticosa</i>	LC
AIZOACEAE	<i>Tetragonia microptera</i>	LC
AIZOACEAE	<i>Tetragonia pillansii</i>	VU
AIZOACEAE	<i>Tetragonia sarcophylla</i>	LC
AIZOACEAE	<i>Tetragonia spicata</i>	LC
AIZOACEAE	<i>Tetragonia virgata</i>	LC
AMARYLLIDACEAE	<i>Brunsvigia bosmaniae</i>	LC
AMARYLLIDACEAE	<i>Gethyllis britteniana</i> subsp. <i>britteniana</i>	LC
AMARYLLIDACEAE	<i>Gethyllis grandiflora</i>	VU
AMARYLLIDACEAE	<i>Haemanthus coccineus</i>	LC
AMARYLLIDACEAE	<i>Haemanthus pubescens</i> subsp. <i>arenicola</i>	RARE
AMARYLLIDACEAE	<i>Haemanthus unifolius</i>	LC
ANACARDIACEAE	<i>Searsia glauca</i>	LC
ANACARDIACEAE	<i>Searsia incisa</i> var. <i>incisa</i>	LC
ANACARDIACEAE	<i>Searsia undulata</i>	LC
ANTHERICACEAE	<i>Chlorophytum undulatum</i>	LC
APIACEAE	<i>Cynorhiza typica</i>	DDT
APOCYNACEAE	<i>Ceropegia occidentalis</i>	NT
APOCYNACEAE	<i>Microloma namaquense</i>	LC
APOCYNACEAE	<i>Microloma sagittatum</i>	LC
APOCYNACEAE	<i>Microloma tenuifolium</i>	LC
APOCYNACEAE	<i>Quaqua armata</i> subsp. <i>maritima</i>	LC
APOCYNACEAE	<i>Quaqua parviflora</i> subsp. <i>parviflora</i>	LC
ASPARAGACEAE	<i>Asparagus capensis</i>	LC
ASPARAGACEAE	<i>Asparagus capensis</i> var. <i>litoralis</i>	LC
ASPHODELACEAE	<i>Aloe arenicola</i>	NT
ASPHODELACEAE	<i>Aloe krapohlina</i>	DDD
ASPHODELACEAE	<i>Aloe melanacantha</i>	LC
ASPHODELACEAE	<i>Aloe microstigma</i> subsp. <i>framesii</i>	NT
ASPHODELACEAE	<i>Gasteria</i> sp.	

Family Name	Species Name	Status
ASTERACEAE	<i>Amellus alternifolius</i> subsp. <i>alternifolius</i>	LC
ASTERACEAE	<i>Amellus flosculosus</i>	LC
ASTERACEAE	<i>Amellus microglossus</i>	LC
ASTERACEAE	<i>Amellus</i> sp.	
ASTERACEAE	<i>Amellus tenuifolius</i>	LC
ASTERACEAE	<i>Arctotheca calendula</i>	LC
ASTERACEAE	<i>Arctotis auriculata</i>	LC
ASTERACEAE	<i>Arctotis decurrens</i>	DDT
ASTERACEAE	<i>Arctotis diffusa</i>	LC
ASTERACEAE	<i>Arctotis fastuosa</i>	LC
ASTERACEAE	<i>Arctotis revoluta</i>	LC
ASTERACEAE	<i>Arctotis</i> sp.	
ASTERACEAE	<i>Athanasia flexuosa</i>	LC
ASTERACEAE	<i>Berkheya fruticosa</i>	LC
ASTERACEAE	<i>Chrysanthemoides incana</i>	LC
ASTERACEAE	<i>Chrysocoma ciliata</i>	LC
ASTERACEAE	<i>Chrysocoma longifolia</i>	LC
ASTERACEAE	<i>Chrysocoma schlechteri</i>	LC
ASTERACEAE	<i>Cotula coronopifolia</i>	LC
ASTERACEAE	<i>Cotula leptalea</i>	LC
ASTERACEAE	<i>Didelta carnosa</i> var. <i>carnosa</i>	LC
ASTERACEAE	<i>Dimorphotheca pluvialis</i>	LC
ASTERACEAE	<i>Dimorphotheca sinuata</i>	LC
ASTERACEAE	<i>Eriocephalus microphyllus</i> var. <i>pubescens</i>	LC
ASTERACEAE	<i>Eriocephalus racemosus</i> var. <i>affinis</i>	LC
ASTERACEAE	<i>Eriocephalus racemosus</i> var. <i>racemosus</i>	LC
ASTERACEAE	<i>Euryops dregeanus</i>	LC
ASTERACEAE	<i>Felicia dregei</i>	LC
ASTERACEAE	<i>Felicia dubia</i>	LC
ASTERACEAE	<i>Felicia merxmuelleri</i>	LC
ASTERACEAE	<i>Gazania leiopoda</i>	LC
ASTERACEAE	<i>Gazania rigida</i>	LC
ASTERACEAE	<i>Gazania</i> sp.	
ASTERACEAE	<i>Gorteria diffusa</i> subsp. <i>diffusa</i>	LC
ASTERACEAE	<i>Helichrysum hebelepis</i>	LC
ASTERACEAE	<i>Helichrysum marmarolepis</i>	NT
ASTERACEAE	<i>Helichrysum micropoides</i>	LC
ASTERACEAE	<i>Hirpicium echinus</i>	LC
ASTERACEAE	<i>Lasiopogon muscoides</i>	LC
ASTERACEAE	<i>Leucoptera nodosa</i>	VU
ASTERACEAE	<i>Leysera gnaphalodes</i>	LC
ASTERACEAE	<i>Leysera tenella</i>	LC
ASTERACEAE	<i>Monoculus hyoseroides</i>	LC
ASTERACEAE	<i>Monoculus monstrosus</i>	LC
ASTERACEAE	<i>Norlindhia amplexans</i>	LC

Family Name	Species Name	Status
ASTERACEAE	<i>Oncosiphon grandiflorum</i>	LC
ASTERACEAE	<i>Oncosiphon suffruticosum</i>	LC
ASTERACEAE	<i>Osteospermum grandiflorum</i>	LC
ASTERACEAE	<i>Othonna carnosa</i>	LC
ASTERACEAE	<i>Othonna coronopifolia</i>	LC
ASTERACEAE	<i>Othonna cylindrica</i>	LC
ASTERACEAE	<i>Othonna floribunda</i>	LC
ASTERACEAE	<i>Othonna perfoliata</i>	LC
ASTERACEAE	<i>Othonna retrorsa</i> var. <i>spektakelensis</i>	RARE
ASTERACEAE	<i>Othonna sedifolia</i>	LC
ASTERACEAE	<i>Othonna</i> sp.	
ASTERACEAE	<i>Pteronia divaricata</i>	LC
ASTERACEAE	<i>Pteronia glabrata</i>	LC
ASTERACEAE	<i>Pteronia incana</i>	LC
ASTERACEAE	<i>Pteronia onobromoides</i>	LC
ASTERACEAE	<i>Pteronia undulata</i>	LC
ASTERACEAE	<i>Rhynchopsidium pumilum</i>	LC
ASTERACEAE	<i>Senecio abbreviatus</i>	LC
ASTERACEAE	<i>Senecio aloides</i>	LC
ASTERACEAE	<i>Senecio cakilefolius</i>	LC
ASTERACEAE	<i>Senecio corymbiferus</i>	??
ASTERACEAE	<i>Senecio laxus</i>	LC
ASTERACEAE	<i>Senecio sarcoides</i>	LC
ASTERACEAE	<i>Senecio scapiflorus</i>	LC
ASTERACEAE	<i>Tripteris microcarpa</i> subsp. <i>microcarpa</i>	LC
ASTERACEAE	<i>Tripteris oppositifolia</i>	LC
ASTERACEAE	<i>Ursinia calenduliflora</i>	LC
ASTERACEAE	<i>Ursinia chrysanthemoides</i>	LC
BORAGINACEAE	<i>Lobostemon pearsonii</i>	LC
BRASSICACEAE	<i>Brassica tournefortii</i>	??
BRASSICACEAE	<i>Heliophila arenaria</i> var. <i>glabrescens</i>	LC
BRASSICACEAE	<i>Heliophila juncea</i> (was <i>Brachycarpaea juncea</i>)	LC
BRASSICACEAE	<i>Heliophila lactea</i>	LC
BRASSICACEAE	<i>Heliophila seselifolia</i> var. <i>seselifolia</i>	LC
CAMPANULACEAE	<i>Wahlenbergia annularis</i>	LC
CAMPANULACEAE	<i>Wahlenbergia capensis</i>	LC
CAMPANULACEAE	<i>Wahlenbergia oxyphylla</i>	LC
CAMPANULACEAE	<i>Wahlenbergia thunbergiana</i>	LC
CARYOPHYLLACEAE	<i>Dianthus namaensis</i>	LC
CARYOPHYLLACEAE	<i>Dianthus namaensis</i> var. <i>dinteri</i>	LC
CARYOPHYLLACEAE	<i>Dianthus namaensis</i> var. <i>junceus</i>	LC
CARYOPHYLLACEAE	<i>Silene burchellii</i> var. <i>angustifolia</i>	??
CARYOPHYLLACEAE	<i>Silene cretica</i>	??
CARYOPHYLLACEAE	<i>Spergularia media</i>	??
CELASTRACEAE	<i>Gymnosporia buxifolia</i>	LC

Family Name	Species Name	Status
CHENOPODIACEAE	<i>Atriplex cinerea</i> subsp. <i>bolusii</i> var. <i>adamsonii</i>	LC
CHENOPODIACEAE	<i>Atriplex cinerea</i> subsp. <i>bolusii</i> var. <i>genuina</i>	??
CHENOPODIACEAE	<i>Atriplex eardleyae</i>	??
CHENOPODIACEAE	<i>Atriplex lindleyi</i> subsp. <i>inflata</i>	??
CHENOPODIACEAE	<i>Atriplex semibaccata</i> var. <i>appendiculata</i>	LC
CHENOPODIACEAE	<i>Atriplex vestita</i> var. <i>appendiculata</i>	LC
CHENOPODIACEAE	<i>Chenopodium murale</i> var. <i>murale</i>	??
CHENOPODIACEAE	<i>Manochlamys albicans</i>	LC
CHENOPODIACEAE	<i>Salsola aphylla</i>	LC
CHENOPODIACEAE	<i>Salsola sericata</i>	LC
CHENOPODIACEAE	<i>Salsola</i> sp.	
CHENOPODIACEAE	<i>Salsola zeyheri</i>	LC
CHENOPODIACEAE	<i>Sarcocornia natalensis</i> var. <i>natalensis</i>	LC
CHENOPODIACEAE	<i>Sarcocornia pillansii</i> var. <i>pillansii</i>	LC
CRASSULACEAE	<i>Adromischus alstonii</i>	LC
CRASSULACEAE	<i>Cotyledon cuneata</i>	LC
CRASSULACEAE	<i>Cotyledon orbiculata</i> var. <i>orbiculata</i>	LC
CRASSULACEAE	<i>Crassula brevifolia</i> subsp. <i>brevifolia</i>	LC
CRASSULACEAE	<i>Crassula campestris</i>	LC
CRASSULACEAE	<i>Crassula elegans</i>	LC
CRASSULACEAE	<i>Crassula elegans</i> subsp. <i>elegans</i>	LC
CRASSULACEAE	<i>Crassula expansa</i> subsp. <i>expansa</i>	LC
CRASSULACEAE	<i>Crassula expansa</i> subsp. <i>pyrifolia</i>	LC
CRASSULACEAE	<i>Crassula nudicaulis</i> var. <i>herrei</i>	LC
CRASSULACEAE	<i>Crassula subaphylla</i> var. <i>subaphylla</i>	LC
CRASSULACEAE	<i>Crassula tomentosa</i> var. <i>tomentosa</i>	LC
CRASSULACEAE	<i>Crassula whiteheadii</i>	LC
CRASSULACEAE	<i>Tylecodon buchholzianus</i> subsp. <i>buchholzianus</i>	LC
CRASSULACEAE	<i>Tylecodon decipiens</i>	RARE
CRASSULACEAE	<i>Tylecodon pygmaea</i>	THR*
CRASSULACEAE	<i>Tylecodon racemosus</i>	LC
CRASSULACEAE	<i>Tylecodon reticulatus</i> subsp. <i>phyllopodium</i>	??
CRASSULACEAE	<i>Tylecodon reticulatus</i> subsp. <i>reticulatus</i>	LC
CYPERACEAE	<i>Ficinia</i> sp.	
EBENACEAE	<i>Euclea tomentosa</i>	LC
EUPHORBIACEAE	<i>Euphorbia chersina</i>	LC
EUPHORBIACEAE	<i>Euphorbia decussata</i>	LC
EUPHORBIACEAE	<i>Euphorbia ramiglans</i>	LC
EUPHORBIACEAE	<i>Euphorbia rectirama</i>	LC
EUPHORBIACEAE	<i>Euphorbia</i> sp.	
EUPHORBIACEAE	<i>Euphorbia tuberculata</i> var. <i>tuberculata</i>	LC
FABACEAE	<i>Acacia karroo</i>	LC
FABACEAE	<i>Argyrolobium velutinum</i>	EN
FABACEAE	<i>Calobota angustifolia</i>	??
FABACEAE	<i>Calobota halenbergensis</i>	??

Family Name	Species Name	Status
FABACEAE	<i>Calobota lotononoides</i>	??
FABACEAE	<i>Crotalaria excisa</i> subsp. <i>excisa</i>	LC
FABACEAE	<i>Indigofera nigromontana</i>	LC
FABACEAE	<i>Lebeckia sericea</i>	LC
FABACEAE	<i>Lessertia diffusa</i>	LC
FABACEAE	<i>Lessertia falciformis</i>	LC
Fabaceae	<i>Lessertia frutescens</i> (syn. <i>Sutherlandia frutescens</i>)	LC
FABACEAE	<i>Lessertia</i> sp.	
FABACEAE	<i>Medicago laciniata</i> var. <i>laciniata</i>	??
FABACEAE	<i>Melolobium adenodes</i>	LC
FABACEAE	<i>Sutherlandia frutescens</i>	LC
FABACEAE	<i>Wiborgia monoptera</i>	LC
FABACEAE	<i>Wiborgia sericea</i>	LC
FRANKENIACEAE	<i>Frankenia repens</i>	LC
GERANIACEAE	<i>Erodium cicutarium</i>	??
GERANIACEAE	<i>Erodium moschatum</i>	??
GERANIACEAE	<i>Pelargonium adriaanii</i>	??
GERANIACEAE	<i>Pelargonium crithmifolium</i>	LC
GERANIACEAE	<i>Pelargonium dasyphyllum</i>	LC
GERANIACEAE	<i>Pelargonium echinatum</i>	LC
GERANIACEAE	<i>Pelargonium fulgidum</i>	LC
GERANIACEAE	<i>Pelargonium gibbosum</i>	LC
GERANIACEAE	<i>Pelargonium pulchellum</i>	LC
HYACINTHACEAE	<i>Albuca namaquensis</i>	LC
HYACINTHACEAE	<i>Albuca</i> sp.	
HYACINTHACEAE	<i>Albuca spiralis</i>	LC
HYACINTHACEAE	<i>Lachenalia anguinea</i>	LC
HYACINTHACEAE	<i>Lachenalia barkeriana</i>	RARE
HYACINTHACEAE	<i>Lachenalia</i> sp.	
HYACINTHACEAE	<i>Lachenalia valeriae</i>	RARE
HYACINTHACEAE	<i>Lachenalia violacea</i> var. <i>violacea</i>	LC
HYACINTHACEAE	<i>Lachenalia xerophila</i>	LC
HYACINTHACEAE	<i>Ornithogalum canadense</i> (syn. <i>Albuca canadensis</i>)	LC
HYACINTHACEAE	<i>Ornithogalum pruinatum</i>	LC
HYACINTHACEAE	<i>Ornithogalum unifolium</i>	LC
HYACINTHACEAE	<i>Veltheimia capensis</i>	LC
IRIDACEAE	<i>Babiana curviscapa</i>	LC
IRIDACEAE	<i>Babiana hirsuta</i>	??
IRIDACEAE	<i>Babiana lanata</i>	VU
IRIDACEAE	<i>Babiana namaquensis</i>	LC
IRIDACEAE	<i>Babiana</i> sp.	
IRIDACEAE	<i>Babiana thunbergii</i>	NT
IRIDACEAE	<i>Ferraria divaricata</i> subsp. <i>divaricata</i>	LC
IRIDACEAE	<i>Ferraria schaeferi</i>	LC
IRIDACEAE	<i>Ferraria variabilis</i>	LC

Family Name	Species Name	Status
IRIDACEAE	<i>Gladiolus scullyi</i>	LC
IRIDACEAE	<i>Gladiolus</i> sp	
IRIDACEAE	<i>Lapeirousia macrospatha</i>	LC
IRIDACEAE	<i>Lapeirousia silenoides</i>	LC
IRIDACEAE	<i>Lapeirousia tenuis</i>	RARE
IRIDACEAE	<i>Moraea gawleri</i>	LC
IRIDACEAE	<i>Moraea miniata</i>	LC
IRIDACEAE	<i>Moraea rivulicola</i>	RARE
JUNCACEAE	<i>Juncus acutus</i> subsp. <i>leopoldii</i>	LC
LAMIACEAE	<i>Ballota africana</i>	LC
LAMIACEAE	<i>Salvia africana-lutea</i>	LC
LAMIACEAE	<i>Salvia dentata</i>	LC
LAMIACEAE	<i>Salvia lanceolata</i>	LC
LOBELIACEAE	<i>Monopsis debilis</i> var. <i>gracilis</i>	LC
LORANTHACEAE	<i>Tapinanthus oleifolius</i>	LC
LYTHRACEAE	<i>Nesaea</i> sp.	??
MALVACEAE	<i>Hermannia amoena</i>	LC
MALVACEAE	<i>Hermannia cuneifolia</i> var. <i>cuneifolia</i>	LC
MALVACEAE	<i>Hermannia disermifolia</i>	LC
MALVACEAE	<i>Hermannia incana</i>	LC
MALVACEAE	<i>Hermannia pfeillii</i>	LC
MALVACEAE	<i>Hermannia trifurca</i>	LC
MELIANTHACEAE	<i>Melianthus elongatus</i>	LC
MESEMBRYANTHEMACEAE	<i>Amphibolia laevis</i>	LC
MESEMBRYANTHEMACEAE	<i>Amphibolia rupis-arcuatae</i>	LC
MESEMBRYANTHEMACEAE	<i>Amphibolia succulenta</i>	LC
MESEMBRYANTHEMACEAE	<i>Antimima compacta</i>	LC
MESEMBRYANTHEMACEAE	<i>Antimima dolomitica</i>	??
MESEMBRYANTHEMACEAE	<i>Antimima maleolens</i>	LC
MESEMBRYANTHEMACEAE	<i>Antimima</i> sp.	
MESEMBRYANTHEMACEAE	<i>Aridaria brevicarpa</i>	LC
MESEMBRYANTHEMACEAE	<i>Aspazoma amplectens</i>	LC
MESEMBRYANTHEMACEAE	<i>Astridia</i> cf. <i>citrina</i>	LC
MESEMBRYANTHEMACEAE	<i>Astridia</i> sp.	
MESEMBRYANTHEMACEAE	<i>Brownanthus</i> sp.	??
MESEMBRYANTHEMACEAE	<i>Cephalophyllum ebracteatum</i>	LC
MESEMBRYANTHEMACEAE	<i>Cephalophyllum fulleri</i>	RARE
MESEMBRYANTHEMACEAE	<i>Cephalophyllum herrei</i>	LC
MESEMBRYANTHEMACEAE	<i>Cephalophyllum inaequale</i>	LC
MESEMBRYANTHEMACEAE	<i>Cephalophyllum rigidum</i>	LC
MESEMBRYANTHEMACEAE	<i>Cephalophyllum</i> sp.	
MESEMBRYANTHEMACEAE	<i>Cheiridopsis denticulata</i>	LC
MESEMBRYANTHEMACEAE	<i>Cheiridopsis namaquensis</i>	LC
MESEMBRYANTHEMACEAE	<i>Cheiridopsis robusta</i>	LC
MESEMBRYANTHEMACEAE	<i>Cheiridopsis</i> sp.	

Family Name	Species Name	Status
MESEMBRYANTHEMACEAE	<i>Conicosia elongata</i>	LC
MESEMBRYANTHEMACEAE	<i>Conicosia pugioniformis</i> subsp. <i>alborosea</i>	LC
MESEMBRYANTHEMACEAE	<i>Conophytum bilobum</i> subsp. <i>bilobum</i>	LC
MESEMBRYANTHEMACEAE	<i>Conophytum flavum</i> subsp. <i>flavum</i>	LC
MESEMBRYANTHEMACEAE	<i>Conophytum hians</i>	LC
MESEMBRYANTHEMACEAE	<i>Conophytum meyeri</i>	RARE
MESEMBRYANTHEMACEAE	<i>Conophytum</i> sp.	
MESEMBRYANTHEMACEAE	<i>Drosanthemum floribundum</i>	LC
MESEMBRYANTHEMACEAE	<i>Drosanthemum luederitzii</i>	LC
MESEMBRYANTHEMACEAE	<i>Drosanthemum oculatum</i>	LC
MESEMBRYANTHEMACEAE	<i>Drosanthemum</i> sp.	
MESEMBRYANTHEMACEAE	<i>Eberlanzia dichotoma</i>	LC
MESEMBRYANTHEMACEAE	<i>Fenestraria rhopalophylla</i> subsp. <i>aurantiaca</i>	LC
MESEMBRYANTHEMACEAE	<i>Jordaaniella cuprea</i>	LC
MESEMBRYANTHEMACEAE	<i>Jordaaniella spongiosa</i>	LC
MESEMBRYANTHEMACEAE	<i>Lampranthus brachyandrus</i>	DDT
MESEMBRYANTHEMACEAE	<i>Lampranthus suavissimus</i>	DDT
MESEMBRYANTHEMACEAE	<i>Lampranthus uniflorus</i>	LC
MESEMBRYANTHEMACEAE	<i>Leipoldtia frutescens</i>	VU
MESEMBRYANTHEMACEAE	<i>Leipoldtia</i> sp.	
MESEMBRYANTHEMACEAE	<i>Malephora framesii</i>	LC
MESEMBRYANTHEMACEAE	<i>Mesembryanthemum amplexens</i>	Not listed
MESEMBRYANTHEMACEAE	<i>Mesembryanthemum arenosum</i>	Not listed
MESEMBRYANTHEMACEAE	<i>Mesembryanthemum hypertrophicum</i>	LC
MESEMBRYANTHEMACEAE	<i>Mesembryanthemum nodiflorum</i>	LC
MESEMBRYANTHEMACEAE	<i>Mesembryanthemum pellitum</i>	LC
MESEMBRYANTHEMACEAE	<i>Mesembryanthemum</i> sp.	
MESEMBRYANTHEMACEAE	<i>Meyerophytum meyeri</i>	LC
MESEMBRYANTHEMACEAE	<i>Mitrophyllum clivorum</i>	LC
MESEMBRYANTHEMACEAE	<i>Mitrophyllum dissitum</i>	LC
MESEMBRYANTHEMACEAE	<i>Mitrophyllum</i> sp.	
MESEMBRYANTHEMACEAE	<i>Phyllobolus sinuosus</i>	LC
MESEMBRYANTHEMACEAE	<i>Phyllobolus spinuliferus</i>	LC
MESEMBRYANTHEMACEAE	<i>Phyllobolus trichotomus</i>	LC
MESEMBRYANTHEMACEAE	<i>Psilocaulon dinteri</i>	LC
MESEMBRYANTHEMACEAE	<i>Psilocaulon foliosum</i>	LC
MESEMBRYANTHEMACEAE	<i>Psilocaulon subnodosum</i>	LC
MESEMBRYANTHEMACEAE	<i>Ruschia cymosa</i>	LC
MESEMBRYANTHEMACEAE	<i>Ruschia festiva</i>	??
MESEMBRYANTHEMACEAE	<i>Ruschia fugitans</i>	DDT
MESEMBRYANTHEMACEAE	<i>Ruschia muelleri</i>	LC
MESEMBRYANTHEMACEAE	<i>Ruschia paripetala</i>	LC
MESEMBRYANTHEMACEAE	<i>Ruschia</i> sp.	
MESEMBRYANTHEMACEAE	<i>Ruschia versicolor</i>	LC
MESEMBRYANTHEMACEAE	<i>Ruschia viridifolia</i>	LC

Family Name	Species Name	Status
MESEMBRYANTHEMACEAE	<i>Stoeberia beetzii</i>	LC
MESEMBRYANTHEMACEAE	<i>Stoeberia frutescens</i>	LC
MESEMBRYANTHEMACEAE	<i>Stoeberia utilis</i>	LC
MESEMBRYANTHEMACEAE	<i>Vanzijlia annulata</i>	LC
MESEMBRYANTHEMACEAE	<i>Wooleya farinosa</i>	VU
MOLLUGINACEAE	<i>Adenogramma glomerata</i>	LC
MOLLUGINACEAE	<i>Hypertelis salsoloides</i>	LC
MOLLUGINACEAE	<i>Hypertelis salsoloides</i> var. <i>salsoloides</i>	LC
MOLLUGINACEAE	<i>Hypertelis</i> sp.	
MOLLUGINACEAE	<i>Limeum africanum</i> subsp. <i>africanum</i>	LC
MOLLUGINACEAE	<i>Limeum africanum</i> subsp. <i>canescens</i>	LC
MOLLUGINACEAE	<i>Pharnaceum albens</i>	LC
MOLLUGINACEAE	<i>Pharnaceum confertum</i> var. <i>confertum</i>	LC
MOLLUGINACEAE	<i>Pharnaceum microphyllum</i> var. <i>microphyllum</i>	LC
MORACEAE	<i>Ficus ilicina</i>	LC
NEURADACEAE	<i>Grielum grandiflorum</i>	LC
NEURADACEAE	<i>Grielum humifusum</i> var. <i>humifusum</i>	LC
NEURADACEAE	<i>Grielum sinuatum</i>	LC
OROBANCHACEAE	<i>Hyobanche glabrata</i>	LC
OROBANCHACEAE	<i>Hyobanche sanguinea</i>	LC
PLUMBAGINACEAE	<i>Limonium dregeanum</i>	LC
POACEAE	<i>Bromus</i> sp.	??
POACEAE	<i>Chaetobromus involucratus</i> subsp. <i>dregeanus</i>	LC
POACEAE	<i>Chaetobromus involucratus</i> subsp. <i>involucratus</i>	LC
POACEAE	<i>Chaetobromus involucratus</i> subsp. <i>sericeus</i>	LC
POACEAE	<i>Cladoraphis cyperoides</i>	LC
POACEAE	<i>Cladoraphis spinosa</i>	LC
POACEAE	<i>Ehrharta brevifolia</i> var. <i>cuspidata</i>	LC
POACEAE	<i>Ehrharta delicatula</i>	LC
POACEAE	<i>Ehrharta longiflora</i>	LC
POACEAE	<i>Ehrharta longifolia</i>	LC
POACEAE	<i>Eragrostis curvula</i>	LC
POACEAE	<i>Fingerhuthia africana</i>	LC
POACEAE	<i>Hordeum murinum</i> subsp. <i>glaucum</i>	??
POACEAE	<i>Karoochloa schismoides</i>	LC
POACEAE	<i>Pentaschistis tomentella</i>	LC
POACEAE	<i>Phalaris minor</i>	??
POACEAE	<i>Phragmites australis</i>	LC
POACEAE	<i>Schismus barbatus</i>	LC
POACEAE	<i>Schmidtia kalahariensis</i>	LC
POACEAE	<i>Sporobolus virginicus</i>	LC
POACEAE	<i>Stipagrostis ciliata</i> var. <i>capensis</i>	LC
POACEAE	<i>Stipagrostis geminifolia</i>	LC
POLYGONACEAE	<i>Emex australis</i>	??
PORTULACACEAE	<i>Anacampseros albissima</i>	??

Family Name	Species Name	Status
PORTULACACEAE	Anacampseros filamentosa subsp. namaquensis	LC
PTYCHOMITRIACEAE	Ptychomitrium crispatum	??
RUBIACEAE	Galium spurium-aparine	LC
RUBIACEAE	Nenax arenicola	LC
RUTACEAE	Diosma acmaeophylla	LC
SANTALACEAE	Thesium lineatum	LC
SAPINDACEAE	Dodonaea angustifolia	LC
SCROPHULARIACEAE	Diascia batteniana	LC
SCROPHULARIACEAE	Hebenstretia repens	LC
SCROPHULARIACEAE	Hebenstretia sp.	
SCROPHULARIACEAE	Jamesbrittenia fruticosa	LC
SCROPHULARIACEAE	Jamesbrittenia merxmuelleri	LC
SCROPHULARIACEAE	Lyperia tristis	LC
SCROPHULARIACEAE	Nemesia bicornis	LC
SCROPHULARIACEAE	Nemesia sp.	
SCROPHULARIACEAE	Peliostomum virgatum	LC
SCROPHULARIACEAE	Phyllopodium pumilum	LC
SCROPHULARIACEAE	Zaluzianskya affinis	LC
SCROPHULARIACEAE	Zaluzianskya benthamiana	LC
SOLANACEAE	Lycium amoenum	LC
SOLANACEAE	Lycium cinereum	LC
SOLANACEAE	Lycium decumbens	??
SOLANACEAE	Nicotiana glauca	EXOTIC
TECOPHILAEACEAE	Cyanella hyacinthoides	LC
TELOSCHISTACEAE	Xanthoria flammea	??
THYMELAEACEAE	Passerina truncata subsp. truncata	LC
URTICACEAE	Forsskaolea candida	LC
VISCACEAE	Viscum capense	LC
ZYGOPHYLLACEAE	Sisyndite spartea	LC
ZYGOPHYLLACEAE	Zygophyllum cordifolium	LC
ZYGOPHYLLACEAE	Zygophyllum morgsana	LC
ZYGOPHYLLACEAE	Zygophyllum spinosum	LC