

David Hoare Consulting cc

CC 2001/034446/23

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14 February 2014

Att: Karen Versfeld
Mulilo Renewable Energy (Pty) Ltd
PO Box 50,
Cape Town International Airport
Cape Town
7525

Dear Karen

RE: LONGYUAN MULILO DE AAR WIND ENERGY FACILITY AT MAANHAARBERG: SUBSTATION / CONTROL BUILDING SITE

Dr David Hoare of **David Hoare Consulting cc** undertook a survey on site on 3 – 4 February 2014 to assess the site of the proposed new substation / control building site. The objective of the survey was to evaluate whether the site posed any risks in terms of the botanical receiving environment.

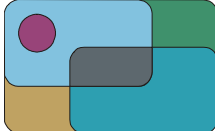
This construction yard is situated on lowland plains close to the mountains (see photograph attached below). The vegetation type is Northern Upper Karoo, which is listed as Least Threatened. The vegetation has low diversity and variability and, based on the fieldwork undertaken on site, there are not considered to be any botanical sensitivities within this area.

No Red List plant species, no Orange List plant species and no Protected plant species (National Environmental Management: Biodiversity Act, 2004 (Act 10 Of 2004) and National Forests Act (Act 84 of 1998)) were recorded on site.

Yours faithfully,

David Hoare
Director / member





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Dear Karen

RE: LONGYUAN MULILO DE AAR WIND ENERGY FACILITY AT MAANHAARBERG: CONSTRUCTION YARD SITES

Dr David Hoare of **David Hoare Consulting cc** undertook a survey on site on 3 – 4 February 2014 to assess the site of the proposed construction yard sites. The objective of the survey was to evaluate whether the site posed any risks in terms of the botanical receiving environment.

There are three construction yards on site, one on the farm Zwartkopjes, near to the entrance of the farm and the main road (construction yard 1), and two on the farm Smauspoort, one of which is on the lowland plains close to the main road (construction yard 2) and the other higher up on a level area within the mountains (construction yard 3). The first construction yard on the farm Zwartkopjes was originally slightly further north on the northern side of the Eskom transmission lines, but this has since been shifted to the southern side of the Eskom transmission lines.

Construction yard 1

This construction yard is situated on lowland plains close to the mountains. The vegetation type is Northern Upper Karoo, which is listed as Least Threatened. There are no Red List plant species, no Orange List plant species and no Protected plant species (National Environmental Management: Biodiversity Act, 2004 (Act 10 Of 2004) and National Forests Act (Act 84 of 1998)) within the footprint of or near to the proposed construction yard. The vegetation has low diversity and variability and there are not considered to be any botanical sensitivities within this area.

The change in position of this construction yard from north of the Eskom transmission line to south of the Eskom transmission line is considered to be acceptable from a botanical viewpoint. There were no botanical sensitivities in the old location and there are none in the new location. Ecologically, the new position is considered to be better due to the fact that drainage areas are no longer affected and there is therefore a lower risk of erosion and therefore general land degradation. The lower risk of degradation implies a lower risk to botanical and vegetation resources, which is considered to be an improvement.

Construction yard 2

This construction yard is situated on lowland plains close to the mountains. The vegetation type is Eastern Upper Karoo, which is listed as Least Threatened. There are no Red List plant species, no Orange List plant species and no Protected plant species (National Environmental Management: Biodiversity Act, 2004 (Act 10 Of 2004) and National Forests Act (Act 84 of 1998)) within the footprint of or near to the proposed construction yard. The vegetation has low diversity and variability and there are not considered to be any botanical sensitivities within this area.

Construction yard 3

This construction yard is situated on a relatively flat area within the Kasarmberge mountains. The vegetation type is Upper Karro Hardeveld, which is listed as Least Threatened. There are no Red List plant species, no Orange List plant species and no Protected plant species (National Environmental Management: Biodiversity Act, 2004 (Act 10 Of 2004) and National Forests Act (Act 84 of 1998)) within the footprint of or near to the proposed construction yard. The vegetation has low diversity and variability and there are not considered to be any botanical sensitivities within this area.

In conclusion, all three construction yard sites are considered to have low botanical sensitivity and are considered to be acceptable from a botanical point of view.

Yours faithfully,



David Hoare
Director / member