

**Siobhan Pelliccia
Blueprint Environmental Strategies
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4th October 2017

Dear Siobhan,

**TARGETED SEARCH OF THREATENED FLORA FOR KIDMAN RESOURCES LIMITED-
MOUNT HOLLAND GOLD PROJECT**

Native Vegetation Solutions (NVS) was commissioned by Kidman Resources Ltd (KDR) via Blueprint Environmental Strategies (BES) to conduct a targeted search for Threatened Flora *Banksia sphaerocarpa* var. *dolichostyla* within survey area polygons provided by BES. The survey area polygons were identified via desktop searches involving landscape characteristics including slope angle, slope direction and soil lithology, which were cross-referenced with aerial photography for potential habitat.

NVS conducted the targeted search on 28th and 29th September 2017, which involved visiting each polygon utilising a TwoNav Aventura GPS and searching via 4WD on existing access tracks for potential habitat. Where potential habitat was identified within the polygon, a search was conducted on foot for *Banksia sphaerocarpa* var. *dolichostyla*. Potential habitat was identified in the field via the initial identification of other species including *Banksia cirsioides* and *Allocasuarina helmsii* occurring over lateritic soils.

Where *Banksia sphaerocarpa* var. *dolichostyla* was identified, each identifiable plant for the purposes of mapping the external extent of the population boundary was recorded on GPS. Not all plants present at each population were recorded, however estimates on the number of plants at each population was attempted.

Table 1 below shows the recorded populations of *Banksia sphaerocarpa* var. *dolichostyla* identified in the field.

Table 1: *Banksia sphaerocarpa* var. *dolichostyla* populations identified in the Mount Holland Gold Project Area

Population ID	Population Estimate	Area (ha)	Notes
1	150	3.175	Small rise
2	150	2.396	Small area
3	50	2.067	Small Population
4	< 50	1.673	Small Population
5	< 10	1.538	Small Population
6	20	1.269	Near Pit Bund
7	20 < 30	1.114	Small population on slight hill slope
8	50	0.779	Small population on slight hill slope
9	10 < 20	0.779	Recent Fire break cleared here
10	> 2000	14.950	Known DBCA Location, mature plants, population extends further north and south of mapped boundary
11	> 2000	12.747	Known DBCA Location, small hill
12	> 3000	15.656	Fire regeneration area, very dense cluster of <i>Banksia</i> 's, some fruiting plants
13	1000 < 2000	60.897	Mature Population

Mapping of individual population boundaries are included in Appendix 1.

Population boundaries were identified via placing a 50m buffer around recorded locations of individual plants, and extrapolating this outer perimeter to infill gaps between recorded locations.

If you have any queries regarding this work, please do not hesitate to contact me

Kind Regards



Eren Reid
Botanist/Proprietor

Appendix



