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This map was approved by the Director-General of the Department.  
Precipitation and elevation data were obtained from the Computing Centre for Water Resources and Climate Change and compiled by H. Botha. Hydrographical data and towns were obtained from the Chief Directorate: Surveys and Mapping, Department of Minerals Affairs, and edited by the Directorate: Water Affairs and Forestry. Precipitation and elevation data were obtained from the Computing Centre for Water Resources and Climate Change and compiled by H. Botha. Hydrographical data and towns were obtained from the Chief Directorate: Surveys and Mapping, Department of Minerals Affairs, and edited by the Directorate: Water Affairs and Forestry. This information is made available under the terms of the Open Government License. The copyright of this information is held by the State of South Africa. The ground water occurrence and groundwater quality maps, and the schematic cross-sections were compiled by T.D. Pogtjeter and P.S. Meyer. The lithology was adapted by T.D. Pogtjeter from the 1:1 000 000 scale Geological map (Council for Geoscience, 1984). T. Chetty was responsible for the compilation of the borehole distribution map. E. Braune, J. Girman, P. Seward and Z.M. Dzembrowski (Consultant) assisted with the preparation of the map. The lithology was adapted by T.D. Pogtjeter from the 1:1 000 000 scale Geological map (Council for Geoscience, 1984). T. Chetty was responsible for the compilation of the borehole distribution map. E. Braune, J. Girman, P. Seward and Z.M. Dzembrowski (Consultant) assisted with the preparation of the map.

#### Principal groundwater occurrence

	0.0 - 0.1	0.1 - 0.5	0.5 - 2.0	2.0 - 5.0	> 5.0
Intergranular	*	*	*	*	*
Fractured	b1	b2	b3	b4	*
Karst	*	*	c3	c4	*
Intergranular and fractured	d1	d2	d3	d4	*

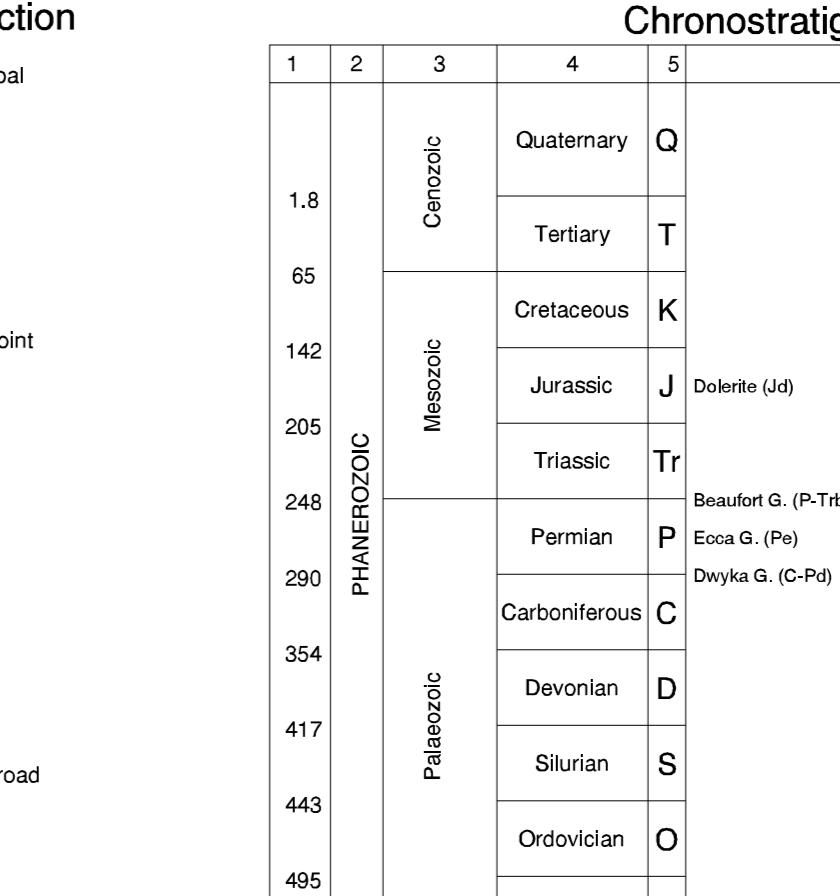
Borehole yield class (median is)  
(excluding dry boreholes)

Note: Groundwater occurrence depicts the aquifer type(s) with the highest borehole yield, and does not always correlate with surface lithology.

#### Surface / Sub-surface lithology

(Uncrossed sedimentary rocks which are unsaturated have been omitted from the map)	
	Intermediate extrusive rocks (andesite)
	Predominantly metarenaceous rocks (quartzite, gneiss and migmatite)
	Predominantly carbonate rocks (dolomite and subordinate dolomitic limestone)
	Predominantly silicate (felsite)
	Predominantly iron formation (banded ironstone and jaspilite)
	Basic intrusive rocks (dolerite)
	Acid intrusive rocks (various granitoids)

#### Large scale groundwater abstraction



#### Chronostratigraphy

	1	2	3	4	5	6
Cenozoic						
Quaternary	Q					
Tertiary	T					
Cretaceous	K					
Jurassic	J	Dolerite (Jd)				
Triassic	Tr					
Permian	P	Ecca G. (P-Tr)				
Carboniferous	C	Dwyka G. (C-Pd)				
Devonian	D					
Silurian	S					
Ordovician	O					
Camrian	€					
Namibian						
M	Kolmansk G. (Me); Jannelingen F. (Ma); Spring F. (M); Barkelvlei gneiss (M); Vuurkloof G. (Ma); Vuurkloof G. (Ma)					
V	Valep G. (V); Ghap G. (V); Abrahams F. (V); Vuurkloof F. (V); Zwartkloof F. (R); Draghender granite-gneiss (Rd)					
R						
Z	Marydale G. (Zm)					

#### Groundwater quality

