



FIGURE 3.1: HYDROGEOLOGY MAP OF THE HENDRINA AREA

A number of databases including the National Groundwater Database (NGDB), data from the Water Management System (WMS), maps published for the Groundwater Resource Assessment Phase I (GRA I) project, data from the Groundwater Resource Assessment Phase II (GRA II) project and information on water-use registrations obtained from the WARMS (Water Authorisation and Resource Management System) dataset managed by the Department of Water Affairs (DWA) were consulted for this study. The type of data collated included borehole yield estimates, groundwater level and groundwater chemistry data, as well as information on aquifer characteristics and exploitation potential.

From the NGDB, there are only 3 boreholes available within close proximity of the site (with one of the borehole within the 8km radius). Most of the data sourced from the database, plots far from the site (Figure 3.2). No rates of abstraction were recorded. Highly elevated concentration of sulphate ( $\text{SO}_4$ ) was recorded for the Optinum borehole (Table 3.2).