



MEMORANDUM

TO : Mr Louis Du Preez
FROM : Frank Du Plessis
COPIES :
DATE : 24 June 2011
REF : 20019GG

SUBJECT : **THE HILL DEVELOPMENT SEDGEFIELD – STABILITY OF SITE**

We refer to recent discussions regarding the above and confirm our verbal advice as follows:

Geologically the development area is situated in terrain composed of and underlain by ancient, variably cemented dune material, the bulk of which comprises sandy soils of satisfactory strength.

Whilst the near surface soils typically occur as low density material of marginal capacity, the soils at depth generally form a competent founding medium allowing for safe support of single to double storey buildings provided with conventional foundations.

The steeply sloping topography and largely sandy, non-cohesive nature of the subsoils should be allowed for at all times in the design of roads, runoff control measures, bulk earthworks/site terracing, subsurface drainage and buried services. Despite the permeable nature of the site soils, poor management of runoff and concentrated discharge could result in adverse erosion and other damage.

With careful attention to the above, the site can successfully be developed using conventional building construction. The final design should however be based on a detailed geotechnical investigation which should include at least machine dug trial holes, penetrometer testing and laboratory analysis of the various site soils.

Yours faithfully,

FRANK DU PLESSIS