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Robert Needham

## **SLOPE STABILITY, SEEMEEU PARK, MOSSELBAY.**

During various discussions on the current status of the stability of the Seemeeu Park development in Mosselbaai the following has been established:

- The development is located in a disused quarry on to two different elevated platforms;
- Slope movements took place and are still taking place as is evidenced by past and current serious damage to houses;
- Displacements are evident on ground surface and manifests as large open cracks and displaced retaining wall structures.
- The slope movements are still observed, although these are relative observations as no specific reference survey bases have been installed to monitor actual slope movements.

The above evidence, both historic and current is clearly indicating downslope movement of the surficial soil and rock materials in and below the platforms on which the houses have been constructed.

It is therefore concluded, based on historic events and current visual observations that the Seemeeu Park development is located on a failed slope structure. There are still slope movements taking place with evidence pointing to the possibility of continued slow downward movement, possible increased slope movement if groundwater conditions worsens, or a sudden large catastrophic slope failure may also be induced with a sudden increase in groundwater on the failure plane. The slope has not been investigated geotechnically to provide scientific evidence and geological detail to support or discard any of the above scenarios. Circumstantial evidence does however proof the fact that the slope has failed and is still unstable.

In the light of the above it is recommended that the remaining properties that are still occupied be evacuated with urgency and that the outcome of further investigations or other processes not be used to motivate further occupancy of these houses. This recommendation must be seen in the light of the above description based on mainly visual and historic observations and actual ongoing damage to properties.

Yours sincerely



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