

Stability of land at Camdale, Burnie.

W.L. Matthews

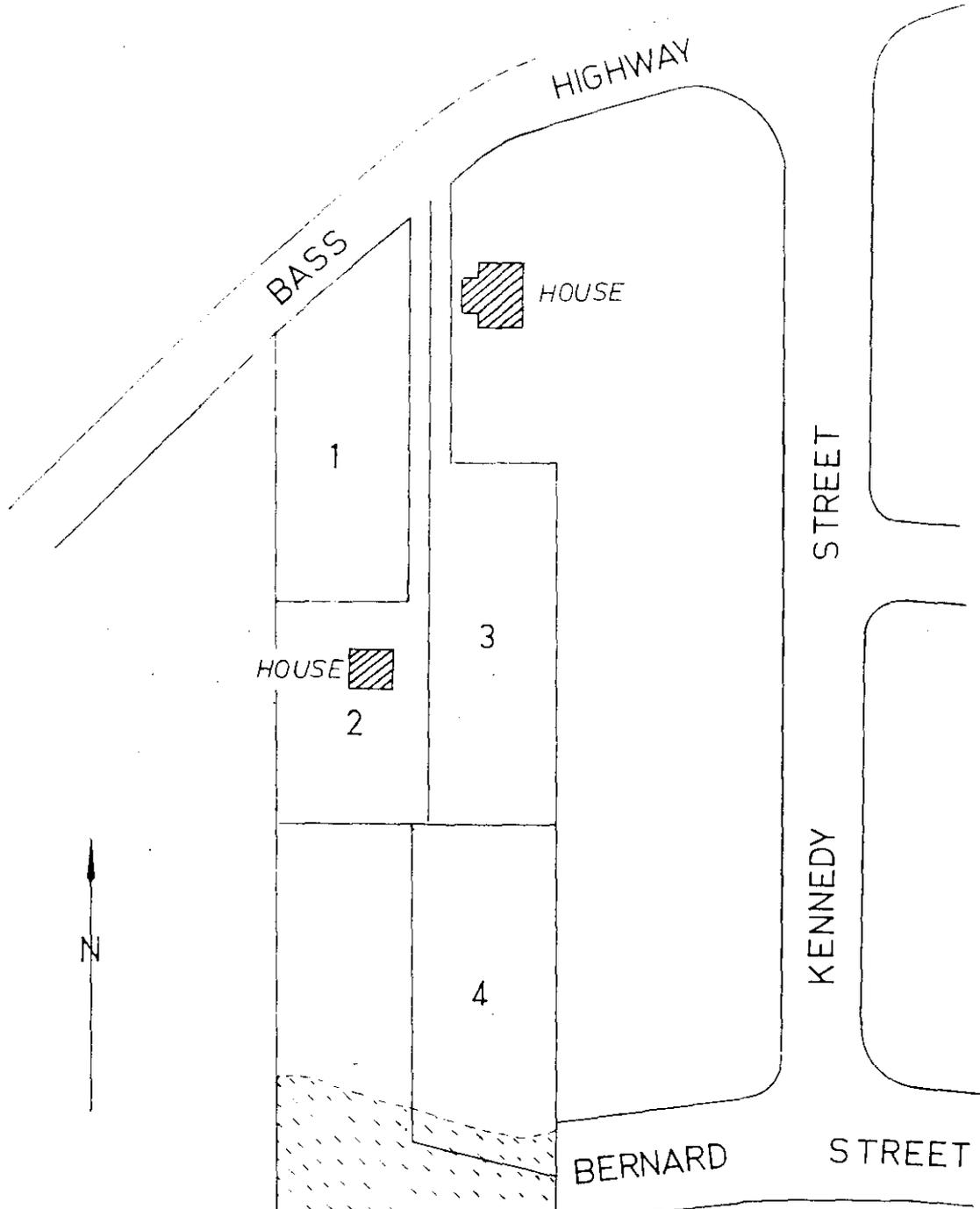
The Town and Country Planning Commission has requested advice on the possible instability of an area of land which forms part of a proposed subdivision at Camdale. The southern portion of the planned subdivision is in a landslip area (fig. 1, 2). The entire area is underlain by basalt talus with slip material, and Precambrian rocks crop out along the foreshore.

A large slip that occurred some time in the past crosses onto block 5. A large seepage area has developed in the heel of this slip and a considerable amount of water is issued from it. Around the toe, the land surface is fairly steep and smaller slips have recently developed. Seepages occur in these areas also. North of the slip areas, the land surface flattens out to a 3-4° slope that includes the northern part of blocks 4 and 5, all of blocks 2 and 3 and the southern part of block 1. The northern part of block 1 is steeply sloping over a vertical height of 10-15 feet, before reaching the Bass Highway.

DISCUSSION OF STABILITY

The presence of old and new landslips on a large part of block 5 suggests that no development could be safely undertaken in this area. In order to give more protection to the other blocks, drainage of the areas of internal drainage and seepages should be carried out. Any houses that are built on blocks 4 and 5 should be located as close to the northern boundaries as possible, so that they would be unaffected by further slips that could develop on the steeper ground. Blocks 2 and 3 are on slightly sloping ground which should not become unstable provided the area is well drained. Block 1 has an area of steeply sloping land and considerable care should be taken with drainage and excavations around this slope. If drainage is poor and high, steep cuts are made, slips could develop.

[18 May 1971]




 Material associated with slips.

Approx. scale
 0 50 100 150 Ft.
 0 50m

AREAS OF
 5
 RECENT SLIPS.

PROPOSED SUBDIVISION
 AT CAMDALE

Geologist: W.L. Matthews.

DEPARTMENT OF MINES
 May 1971

3461

T.J.V.

5 cm

Figure 2.

