

TDH:2

17th September, 1953.

MEMORANDUMPROPOSED SEWERAGE WORKS AT SOMERSET

The rocks underlying the whole area affected by this scheme consist of one group, sometimes called the Carbine Group and belonging in age near the top of the Pre-Cambrian to the bottom of the Cambrian. These rocks have been intensely sheared and although varying somewhat in competency all show some effects of shearing from the fairly solid quartzites to the rather fissile slates. Thus, although one group of rocks, the beds do vary from place to place. Both the extreme members, the slates and massive quartzites, show only narrow beds and the normal rock is a sheared quartzite or quartz schist (28UI).

As with all these very old rocks, minor folding and crenulation is common and tends to conceal the general structure. However, these beds generally strike to the north-east at 30° to 45° and dip to the north-west at angles of 30° to 60°. Planes of schistosity generally follow the bedding.

In places the rock outcrops practically to the surface, but in others depths of recent sands of several feet cover the rocks. There appear to be two main areas extending inland from the Coast where the rock comes to the surface, one round Palmouth St., and the other round Arthur and Raglan Streets.

On the proposed site of the settling tank the rock is a sheared quartzite or quartz schist with narrow slaty bands. Here the rock should come close to the surface.

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