

# 3 - 905 Edgewood Ave,  
Nelson, B.C.

January 21, 1979.

Mr. J.C. Stephen,  
J.C. Stephen Explorations,  
North Vancouver, B.C.

Dear Cam,

RE: Target Project # 117, Nechako Area, B.C.

As preface to what follows, my statements are deliberately general as it is very difficult to make definite inferences as to the nature and source of the surficial materials in the project area without stereoscopic aerial photographic coverage.

In general there appears to be a thick mantle of moderately pervious to impervious unconsolidated material, probably till and associated drift deposits, in areas of subdued topography. The hills in the map-area have only a veneer of this material present; often there is only local colluvium and bedrock outcrops on the steeper portions. Near the eastern margin of the project area there is what appears to be a small esker complex where a stagnant ice block may have temporarily forced meltwater to follow a sub-glacial course.

The project area is characterized by striking linear features: drumlins, drumlinoid ridges and glacial grooves, that suggest ice movement was in an easterly to northeasterly direction and was independent of the underlying bedrock topography. The source of the drift material is vague. Direct glacial deposits (H11) probably

originated somewhere to the southwest of where it presently sits. As the topography is subdued, the material may have been transported great distances or it may have been shaped almost in situ. One consideration that should be borne in mind is that any amount of this material may be reworked older deposits. Tipper (1963) alludes very briefly to the possibility of an earlier ice movement very different from this latest movement. If this is correct, locating a possible bedrock source for the materials in the project area would be very chancy indeed.

Suggestions for further work in the area:

1. air photograph interpretation with stereoscopic coverage
2. ground survey to include
  - (a) comparison of lithologies of erratics, if any, with closest known sources.
  - (b) comparison of indicator lithologies, if any, from regularly sampled intervals, with closest known sources.
  - (c) frequency distribution analysis of (~~lithologies~~) lithologies that might suggest possible source areas.

Enclosed are: aerial photographs for mosaic, Nechako River map-area, B.S.C. Memoir 324 and 1:50,000 topographic maps.

I trust this material reaches <sup>you</sup> in time for your January 31<sup>st</sup> meeting.

Yours truly,

Marilynn Rode