June 22, 1966

Mr. J.V. Boys, Indian Comaiasionar Lor B.C. P.O. Bex 70, Postal station 4 . Vancouver, ib.E.

Dater Sit:

## Pe: Dopestic Mater Supply Masagt Indian Regarve il

In raply to your letter of June 15th, 1966, (your file 993/8-2-1 (Eng 4)), concorning the dcmpatic mater supply for Masaet Indian zascrve fi, we would advise you that our inveatigntion of the groundveter potential in the Hasset arid mes carried out tit the request of the Village of An Meset and wat necessarily confined mainly to that area.

Masent Indian Reenrwe \$1 appaars, hewever, to be underiain by sands and gravals from beach cedimentes and duas ands, ard it should be posstbie to obtatn a supply of fresh groundmater at shallew depth in thee deposits. Adequate sainfall and permanble surface deposics vould also suggest favourable groundsiter conditions in the area.

An earlier report by Mr. E.C. Haletead, Geological Survey of Canada, on the groundmater possibilities at Masset Indisn Village mantions that a supply of potable water sufficient for the viliage is inkely to be available in beach depesits near the commanity hall, or in tha low area occupied by the playing field at the school. Mr. Halstead reported that he found the water encountered in wells in the beach sands deposita appeared to be of better quality than groundmater ancountered in wells that pexetrate the dunes and higher ridges.

Athough a mell located within the village iteolf would be cheaper for porer and pipe inme comnceion conts, there is aleo, particulariy in shallow well in this area, more itkelihood of pollution.

An inspection of the aix photos of Basset Indian Village show both
lessican and dune ridges located impodincely north and east of the bilit-up aren. We auggent that the groundmater quality should first be chacknd at savezal points both in thase dume sames and in those depreselons situated fmediately outside che built-up area. This investigation could be carried eat quickly and cheaply by washing down several send pointe and ficting hand puop to the installaticns. The Einal will atte for the village could then be selected on the remult of this inventigation.

Drilling coats axt inkily to be high for drilling well in the queen Charlecte Islands and because the depth to groundwater is probably in thit order of $20-40$ feet, it mould be less expensive to dig a well and line it with prtecast concrete plpe, or alternatively, mell pointe could be used and drivan or mahed dow into the miterbaaring formationt. Actached is a booklet propared by the Gromatrater pivition thich given som practienl information on groundmater development and well constructiom.

We would be pleased to advite you kurthar, by phone if necesmary, If you should cequite further ansistance, particularly on sand point and will conitruction techniquas.

Youre wary truly,
E. Livingeton, Chise, Crowndinter Division
Par: 9.7.

JF: Jec
Encl.

