



Indian and
Northern Affairs

Affaires indiennes
et du Nord

Northern Affairs Program
P.O. Box 100
Probisher Bay, N.W.T.
XOA OHO

December 7, 1983

Mr. Charlie Manning
Secretary Manager
Hamlet of Cape Dorset
Cape Dorset, N.W.T.

Your file: Votre référence

Our file: Notre référence

B9546-11-CP

Dear Charlie:

4571-1-7

Re: Investigation Report of Hamlet of Cape Dorset's
Municipal Water and Sanitation Services,
November 2, 1983.

Inspection
Report

Attached is a copy of the a/n report. As I indicated to you during the time of the inspection I have also sent you two sets of sample bottles with instructions. If you wish biological sampling (for bacteria) you should consult the local Nursing Station or the Environmental Health Officer. I should add at this point that if you should be required to use the old water lake again and if you feel we could be of assistance at that time, you need only telephone the DIAND Office.

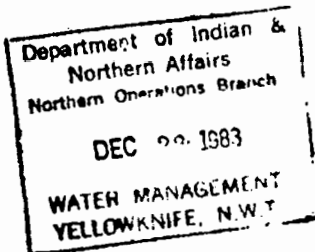
As soon as the analytical results of the water samples from Tee Lake are received they will be forwarded to you.

If you have any questions, please contact me at 979-6369.

Peter Bannon

Peter Bannon
Water Resources Officer
Baffin District

cc, ~~N. Bryant~~
M. Ferris



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INVESTIGATION OF HAMLET OF CAPE DORSET
MUNICIPAL WATER AND SANITATION SERVICES; NOVEMBER 2, 1983

INTRODUCTION

I met with Mr. Tommy Charlie, the Assistant Secretary Manager of the Hamlet of Cape Dorset, on November 2, 1983, to discuss the Water Licensing Process. An inspection of the potable water services and sanitary waste disposal areas was also carried out. On November 3, 1983, I also met briefly with the Secretary Manager, Mr. Charlie Manning, who had been ill the previous day.

DISCUSSION

Water Supply

The water supply for Cape Dorset is normally Tee Lake which is situated about 2 kilometers from the community. The water is pumped to a heater house with circulating heaters situated near Tee Lake and the water is then piped to the 90,000 litre storage tank in the water distribution building. Over the past winter the pipeline system from Tee Lake developed problems and became inoperable. This resulted in the use of the old water lake which is closer to the community. The water quality of the temporary water supply came under suspicion and the Environmental Health Officer was requested to test the water. Although the results showed an acceptable water quality based on the parameters measured, the Hamlet still advised all water users to boil the water prior to consumption. Within the community there was considerable concern over this situation. At the time of this inspection some work was being carried out on the pipeline but it was not known whether or not the old water lake would have to be used again. The Hamlet felt that the lake is unsuitable for a water supply in that people have reported seeing garbage on the lake bottom and some illnesses in the community may be attributable to the use of the water. I stated that I would send sample bottles to the Hamlet to sample the old water lake. This was not to include biological sample bottles at this time.

Samples were taken of water from Tee Lake for analyses.

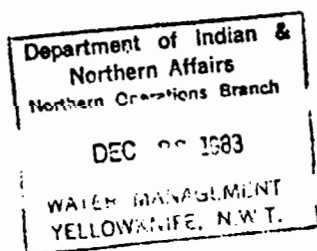
Sanitary Waste Disposal

Cape Dorset has over 800 residents living in about 154 inhabitable buildings. There are about 100 of these units with bagged sewage services and grey water discharge to the ground outside and the remainder are on pumpout services. Of the approximately 50 houses on pumpout, about 20 of these have grey water discharged to the ground adjacent to the unit. There are also 10 new houses and 10 rehabs under construction which will all be fully serviced. Bagged sewage is deposited into a pit at the dump. The pit is expected to have a life of 2 - 3 years before it is buried and a new pit is used. The pumpout sewage is also pumped into basins with a limited life before reclamation is carried out and a new basin is constructed. Both of these systems were about 100 - 200 meters from the West Inlet and seem to be a workable improvement over the old dump site. The solid wastes are also deposited in what appeared to be landfill style pits. Records of bagged sewage collection are made.

SUMMARY

Problems were encountered last winter with the temporary water supply which was used after the pipeline from Tee Lake broke down. Although analytical tests indicated the water was of acceptable quality the residents of Cape Dorset were not convinced that it was.

The disposal of sanitary wastes appears to be done in a satisfactory manner at this time.



Peter Bannon

Peter Bannon
Inspector Under
the Northern Inland Waters Act

Water Register: n/a
Dated: November 29, 1983