



Government of Canada Gouvernement du Canada

MEMORANDUM

NOTE DE SERVICE

TO : N. Bryant
Co-ordinator, Municipal

FROM : Peter Bannon
DE : Water Resources Officer
Baffin

SUBJECT
OBJET

Investigation of Hamlet of Cape Dorset
Municipal Water Services, September 28, 1982

Attached is the a/n report. As the report indicates, the situation is quite good in Cape Dorset with the exception of the grey water discharge which was seen meandering away from a few houses. This is however a minor concern but should be kept in mind when Licencing of Cape Dorset occurs.

Department of Indian & Northern Affairs Northern Operations Branch	
SECURITY-CLASSIFICATION-DE SÉCURITÉ	OCT 29 1982
OUR FILE-N/RÉFÉRENCE	WATER MANAGEMENT YELLOWKNIFE, N.W.T.
B9546-11	
YOUR FILE-V/RÉFÉRENCE	
DATE October 18, 1982	

4571-1-7

Inspection
Diet List

Peter

Peter Bannon

INVESTIGATION OF HAMLET OF CAPE DORSET
MUNICIPAL WATER SERVICES, SEPTEMBER 28, 1982

INTRODUCTION

I met with Mr. Charlie Manning, the Secretary Manager of the Hamlet of Cape Dorset on September 28, 1982, and the Water Licencing process and our Department's function in the process were discussed. An inspection of the potable water services and the sanitary waste disposal areas was also carried out.

DISCUSSION

Water Supply

The water supply for Cape Dorset is Tee Lake situated about 1.5 - 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. This is accomplished with about 2000 meters of 75mm pipeline. No complaints of the system were expressed by Mr. Manning.

Sanitary Waste Disposal

Cape Dorset has about 790 people living in about 135 inhabitable buildings including buildings such as the hamlet office, the nursing station, and the school. Of these, approximately 75 percent of the buildings are on full service with sewage pumpout and the remainder are served by bagged sewage and discharge of grey water outside the house. The sewage is disposed of at the hamlet dump. Cape Dorset's waste disposal area has been relocated and upgraded considerably over the last three years. Sewage wastes, combustibles, and metal wastes are segregated in one area of the dump which covers a large area relative to dumps in other Baffin communities. The sewage pumpout is discharged into a pit and the bagged sewage is contained in another pit. Due to the availability of surface area and gravel resources the plans are to bury the honey bag pits and start a new one every 2 - 3 years. This will also be the case for combustible garbage. West Inlet is about 100 - 200 meters from the sewage disposal area but no pollution of the inlet is thought to exist.

The grey water disposal at some of the houses observed could be improved by trying to dig a containment pit where it is possible.

SUMMARY

Generally Cape Dorset has a good waste disposal operation and a good water supply and distribution system.



Peter Bannon
Water Resources Officer

J May

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
WATER RESOURCES DIVISION -- NORTHWEST TERRITORIES
REQUEST FOR AND RESULTS OF LABORATORY ANALYSIS

LICENSEE <i>Cape Dorset</i>	LICENCE NO. <i>4571-1-7</i>	LOCATION <i>Cape Dorset</i>
DATE SAMPLED <i>Sept 28/82</i>	DATE RECEIVED <i>Oct 4/82</i>	DATE ANALYZED <i>Nov 4, '82</i>

STATION NUMBER						
LABORATORY NUMBER	<i>21963</i>					
ANALYSIS REQUIRED	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

pH (units)	<input checked="" type="checkbox"/>	<i>6.7</i>						
Sp. Cond. (umho/cm)	<input checked="" type="checkbox"/>	<i>38</i>						
Dissolved Oxygen								
Turbidity (JTU)	<input checked="" type="checkbox"/>	<i>0.96</i>						
Colour (colour U.)								
Suspended Solids	<input checked="" type="checkbox"/>	<i><5</i>						
TDS, Residue	<input checked="" type="checkbox"/>	<i><5</i>						
Oil & Grease								
Phenols								

Calcium	<input checked="" type="checkbox"/>	<i>2.28</i>						
Magnesium	<input checked="" type="checkbox"/>	<i>0.74</i>						
Tot. Hardness [as]	<input checked="" type="checkbox"/>	<i>8.7</i>						
Tot. Alkalinity [CaCO ₃]	<input checked="" type="checkbox"/>	<i>6.1</i>						
Sodium	<input checked="" type="checkbox"/>	<i>9.6</i>						
Potassium	<input checked="" type="checkbox"/>	<i>0.2</i>						

Tot. Coliform [ent/100]								
Faecal Coll. [100]								
Faecal Strept [ml]								

BOD ₅								
COD								
Carbon, IC								
Carbon, TOC								

Total Cyanide	<input checked="" type="checkbox"/>							
Chloride	<input checked="" type="checkbox"/>	<i>6.5</i>						
Sulphate	<input checked="" type="checkbox"/>	<i>1.5</i>						
Sulphide								

Ammonia Nitrogen [as]								
Nitrate-Nitrite [N]								
Total Kjeldahl N [N]								
Phosphorus O-P [as]								
Phosphorus Tot. P								
Silica Reac. as SiO ₂								

As	T	<input checked="" type="checkbox"/>	<i><0.002</i>					
	D							
Barium	T			<input checked="" type="checkbox"/>	<i><0.0001</i>			
	E							
Copper	T			<input checked="" type="checkbox"/>	<i>0.007</i>			
	E							
Iron	T			<input checked="" type="checkbox"/>	<i>0.042</i>			
	E							
Manganese	T			<input checked="" type="checkbox"/>	<i>0.002</i>			
	E							
Mercury	T (µg/l)					<input checked="" type="checkbox"/>	<i><0.01</i>	
	E (µg/l)							
Nickel	T			<input checked="" type="checkbox"/>	<i><0.001</i>			
	E							
Zinc	T			<input checked="" type="checkbox"/>	<i>0.529</i>			
	E							

FIELD SAMPLING AND DATA

- Water Supply