

**COPY**

MUNICIPAL INCREMENTAL INFRASTRUCTURE PROJECTS  
**MUNICIPALITY OF IGLOOLIK**  
**BAFFIN REGION**

COMMUNITY	PROPOSED CAPITAL PLAN (\$1,000's)				TOTAL
	1997/98	1998/99	1999/00	00/01	
1 WATER RESERVOIR EXPANSION	50	700	10	0	760
1 SEWAGE LAGOON EXPANSION	25	200	5	0	230
1 THREE CLASSROOMS SCHOOL	95	945	20	0	1,060
2 LOTS FOR 22 HOUSING (1,9,12)	50	160	50	0	260
LOTS FOR 34 HOUSING (2,15,17) -NCC/PWGSC	300	30	0	0	330
GN OFFICE LOT DEVELOPMENT	0	25	0	0	25
3 NEW WATER TRUCK	0	0	86	0	86
3 EXTRA ONE BAY PARKING GARAGE	0	0	100	2	102
3 SEWAGE DISPOSAL TRUCK	0	0	75	0	75
3 GARBAGE DISPOSAL TRUCK	0	0	30	0	30
3 ADDITIONAL FIRE TRUCK	0	0	174	2	176
TOTAL	520	2,060	550	4	3,134

By:

Nunavut Incremental Infrastructure Project Team  
 and  
 Technical Infrastructure Project Team

May 22, 1997

**NUNAVUT MUNICIPAL INCREMENTAL INFRASTRUCTURE PROGRAM**

**BRIEFING NOTES FOR FISCAL YEAR 1996/97 - 2000/01**

Project:  
Community: Igloolik  
Region: Baffin  
PW&S: Y  
Proj. Status: N  
Multi-Year: Y

Project Title: Water Reservoir Exp.  
Program: Water & Sanitation  
Priority:  
Regional Priority:  
Land Status: Existing Facility  
NWTPC: Y    POL: Y    NCI: 1.45

FISCAL YEAR	1996/97	1997/98	1998/99	1999/00	2000/01
CAPITAL COSTS	0	50	700	10	0
RECOVERIES	0	0	0	0	0
O&M COSTS	0	0	0	0	0

**BACKGROUND/SUBSTANTIATION:**

Igloolik's water supply reservoir will require expansion in 1999 due to the community's growth forecasted by the Nunavut Incremental Infrastructure Project Team. The Nunavut Incremental Infrastructure Project Team forecasts population influx of 175 into the community by the decentralization of 75 new positions for the Nunavut Government. This increase in population, which is 16% more than the 1995 population, will impose immediately additional storage requirements of 6,000 cu.m. of potable water in 1999 upon the community's existing water reservoir and this will further increase to 7,700 cu.m. in 2009.

The facility was expanded in 1993/94 by excavating the overblast material remaining in the reservoir since its initial construction phase. The viability of repeating the same process to enable the reservoir to meet the community's new and long term needs will be reviewed in 1997/98. Redrilling and blasting of the present reservoir sides or adjacent strata will also be considered and evaluated at that time. The water truckfill station will also be upgraded to meet the community's long term water distribution and fire protection needs (i.e., fire protection standards requiring 1000 L/min fire flow capacity).

**SCOPE OF WORK:**

To expand the capability of the community's present year-around water supply reservoir (7,700 cu.m. - 2009) and to upgrade their water truckfill station in order to meet the current fire protection and program standards.

**CAPITAL REQUIREMENTS:**

1997/98	Surveying, Pre-engineering and Design	\$50k
1998/99	Tendering and Construction	\$700k
1999/00	Warranty	\$10k

**O&M IMPLICATIONS:**

Slight funding increase required.

**LOCAL EMPLOYMENT POTENTIAL:**

Local labour, equipment and contractors will be utilized whenever possible.

**STATUS OF COMMUNITY CONSULTATION:**

There will be ongoing consultation between the Municipality of Igloolik and MACA/PW&S during the development of this project.

**POLITICAL IMPLICATIONS:**

The existing water reservoir without the proposed expansion will not be large enough to support the new population in 1999. This may create problem for the Nunavut Government.

# NUNAVUT MUNICIPAL INCREMENTAL INFRASTRUCTURE PROGRAM

## BRIEFING NOTES FOR FISCAL YEAR 1996/97 - 2000/01

Project:  
Community: Igloolik  
Region: Baffin  
PW&S: N  
Proj. Status: Y  
Multi-Year:

Project Title: Sewage Lagoon Exp.  
Program: Water & sanitation  
Priority:  
Regional Priority:  
Land Status: Existing Facility  
POL: N      NWTPC: N      NCI: 1.45

FISCAL YEAR	1996/97	1997/98	1998/99	1999/00	2000/01
CAPITAL COSTS	0	25	200	3	0
RECOVERIES	0	0	0	0	0
O&M COSTS	0	0	0	0	0

### BACKGROUND/SUBSTANTIATION:

Presently the Municipality of Igloolik disposes of their raw sewage into a two cell lagoon in proximity to the solid waste facility. The sewage lagoon as per letter of September 6, 1996 from the Municipality's Senior Administrative Officer to the Department of Municipal & Community Affairs is not large enough to meet the community's current demand; both cells were full when the ice started melting in June 1996. The Nunavut Incremental Infrastructure Project Team forecasts population influx of 175 in 1999 into the community by the decentralization of 75 positions for the Government of Nunavut. This increase in population will require expansion to the existing sewage lagoon in order to receive additional 6,000 cu.m. of sewage in 1999. The sewage volume will further increase to 7,700 cu.m. in 2009. The existing lagoon is too small for the community size. It will require expansion to accommodate the expected population influx in 1999 either by adding a third cell or by enlarging the one of the existing cells or both.

### SCOPE OF WORK:

To survey, design and construct expansion/improvements to the Municipality's existing sewage lagoon.

### CAPITAL REQUIREMENTS:

1997/98	Surveying, Planning and Pre-design	\$25k
1998/99	Design, Tendering and Construction	\$200k
1999/00	Warranty inspection	\$5k

### O&M IMPLICATIONS:

Slight funding increase required to haul increased quantity of sewage generated by the new population.

### LOCAL EMPLOYMENT POTENTIAL:

In the past, the work on the sewage lagoon was completed by the Municipality through a contribution agreement. Any further work on the facility can also be completed either by the Municipality or through a local contractor.

### STATUS OF COMMUNITY CONSULTATION:

The community has been consulted in the past on the status of the project. A further consultation will take place during the project planning and implementation process.

### POLITICAL IMPLICATIONS:

The proposed expansion is consistent with the standards and guidelines of the NWT Water Board/Nunavut Water Board - Sewage Effluent Discharge Guidelines. Without further expansion, the facility is not large enough to accommodate the expected population influx in 1999.