

## איני לארבה איני מאינולים Nunaliit Iluani Kavamat Ingilrajuliqijillu Havakviat Department of Community Government and Transportation Ministère du Gouvernement communautaire et des Transports

## Strategic Infrastructure Fund - Preliminary Project Brief

Community: Resolute Bay

Project: Water and Sewage System

Explanation

The community of Resolute Bay is on a piped water and sewage system built in the early 1970's and has experienced minimal maintenance over its life. Originally designed to service approximately 1500 people, the community never realized the expected growth and currently has a population of less than 300 people.

In the last several years, the system has experienced numerous freeze-ups and portions of the underground system are permanently abandoned. As the system was designed for 1500 people, there is insufficient flow, requiring a tremendous amount of bleeding to ensure that sewage pipes do not freeze.

In addition, there is no sewage treatment system in place. A macerator is reported to function to grind up large particles, but the discharge is directly to the ocean. As there is a tremendous amount of bleed water in the effluent, the system may meet effluent criteria of the Nunavut Water Board, but this is not an environmentally sustainable solution.

The project would involve a validation of the current water and sewage system, all necessary upgrades to the distribution system and a sewage treatment system.

A simple solution may exist for the piping system and if so, the cost of the upgrades could be as low as \$3.0 Million. If an entirely new system is required, the cost could be as high as \$12 Million.

Doug Sitland Director, Capital Programs July 16, 2003