

EXECUTIVE SUMMARY

Enclosed is a water license application for the Hamlet of Coral Harbour, Nunavut. The Hamlet is seeking a ten-year license, valid through 2012, to obtain water for municipal use from the nearby Post River. The current population is estimated between 750 and 800 persons. The government of Nunavut projected population for the year 2011 is 1128 persons and projected water consumption for the year 2012 is over 33 million litres per year, thus the Hamlet requests an annual water use rate of 34 million litres.

Water is stored in a reservoir that has a usable storage capacity of 25,200,000 litres and is drawn from the river during the summer months only. For treatment, water is drawn from the reservoir and chlorinated in the pump house by a hypochlorinator and then placed into trucks for distribution. Water parameters tested are below the *Guidelines for Canadian Drinking Water Quality* recommended limits.

Liquid sewage is treated in a natural wetland site 3.4 km northwest of the Hamlet and a 1995 study by Arctic Environmental Services Ltd. determined that the quality of effluent entering the receiving pond was well within Water Board criteria and the *Canadian Water Quality Guidelines for Freshwater Aquatic Life*. Water quality monitoring is in place. There are no sources of commercial or industrial liquid waste. A Ferguson Simek and Clark 2001 study concluded that the wetlands would be sufficient for the next 20 years.

Solid waste disposal is a concern for the Hamlet as the current site is not fenced in, does not meet the 20-year demand and is too close to the airport. The Hamlet proposes to fence in the site and clean up the surrounding area. As well, the site will be relocated approximately 2005/2006 and the existing site closed out.

F.S.C also reviewed runoff from the solid waste site in 2001 and concluded the wetland is large enough to accept the influent and meet NWB guidelines. Indian and Northern Affairs and the Community Government and Transportation in the summer of 2001 inspected the municipal facilities. Overall, this project will not substantially affect the quality, quantity, or flow of water through Inuit Owned Lands.