

Technical summary of the Environmental projects of the Municipality of Pond Inlet

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The Municipality of Pond Inlet is located at latitude 72°42'N and longitude 77°59'W on the Northern edge of Baffin Island within Qikiqtani Region of Nunavut. The water License of this community covers water supply system, Sewage lagoon, landfill, land farm and bulky metal site which serve a population of about 1650.

Water supply system: Salmon creek is the main potable water source for this community. In summer water is pumped from this creek to the Water storage Reservoir for annual consumption. The annual permit of the existing water license #3BM-PON 1012 type B is 67,000 cubic meters. The consumption was recorded in the annual report 2011 was 38,100 cubic meters. The water is disinfected by chlorine before delivery to the community by trucks. One raw water and four tap water samples from the four different buildings are tested for microbiological parameters twice in a month in the GN department of Health lab in Iqaluit.

A bathymetric survey was conducted in this lake in Sep.2010 and found roughly 188,000cubic meters of water with a perimeter 1.0km, surface area 0.05km and maximum depth of 7m. This is a natural lake and also receives snow melting water from the surrounding area.

Sewage Lagoon: The Community has a single cell lined sewage lagoon. This is a containment retention structure with gravity drainage and decanting systems. Wetland also plays an important role of the final treatment of the effluent before reaching the sea. INAC inspector suspected that there is a leakage in the east berm of the lagoon. An engineering consulting firm exp services Inc. inspected the facility during last winter and summer to assess the condition of the berms. A dye test is being conducted in this summer to confirm whether there is any real leakage or not. The result of this study will direct for the future action on this facility. The wastewater effluent test is being conducted annually.

Land fill site: This is a non engineered facility. This facility accommodates all types of domestic and construction wastes. Hamlet initiated to segregate the wastes but not implemented yet. The project was under the Nunavut wide feasibility study program and no action was taken until the study was completed a few months ago. Leachate is a concern. Monitoring wells were not installed as this is a priority project under capital plan. The idea is to accommodate all the deficiencies during design and construction stages of the new facility. The project has been substantiated for capital funding.

Bulky metal site: All types of Bulky metals are spreaded all over. This will be addressed at the same time once Capital project for waste management site is designed and constructed to accommodate all types of wastes produced in the community.

Land farm: The Community has a land farm which is being used to treat contaminated soil of the community. The recent lab test result of the treated soil of this land farm is satisfactory.

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