

Technical summary on the Wastewater Treatment by Lagoon Of the Hamlet of Cape Dorset, Baffin Region, Nuanvut.

**Prepared By: Bhabesh Roy, M.A.Sc., P.Eng.
Municipal Planning Engineer
Baffin Region, GN-CGS.**

The Hamlet of Cape Dorset is located on Dorset Island, off the south shore of Baffin Island. The projected waste water production in 2007 is 61,448 cubic meter. The community uses truck delivery for both water and wastewater services. Currently they are using 3 cells lagoon system for treating wastewater from the community. These facilities have been in poor condition and also not capable for treating the total volume of wastewater to the satisfaction of the regulatory requirements.

Community Government Services of Government of Nunavut has recruited Dillon Consulting Ltd for conducting study, design and implementation of a wastewater treatment facility for this community.

Dillon studied various options of treatment processes and also feasibility of different possible locations. Finally Community Government Services together with the Hamlet of Cape Dorset has decided that Lagoon might be the best option at P-Lake location.

The design of the new lagoon was completed and submitted to Nunavut water Board for their approval some time ago. The Board has scheduled the latest Technical hearing for this project in January 2008. Due to delay of the licensing process, the lagoon was built for economic reason. This facility will serve the community for the next twenty years. The existing water license was expired on August 31, 2007.

With the discussion with NWB, the Hamlet has applied for the renewal of the existing water license for two more years on the existing facilities pending the approval of the new sewage lagoon at P Lake.