

Technical Summary of the Environmental Facilities of the Municipality of Hall Beach, Baffin Region, Nunavut.

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The Municipality of Hall Beach is located at 68⁰46' north latitude and 81⁰13' west longitude on the western shore of Foxe Basin of Baffin Region. The current population is 829. This community is located with a zone of continuous permafrost. The existing environmental facilities include a water reservoir, sewage lagoon, solid waste disposal site and bulky metal site.

The community source water is a natural lake. The annual water storage reservoir was built next to this lake and about 3km away from the Community. This storage reservoir is filled annually, mostly in September by using a movable diesel pump. The community has an annual water permit for 35,000 cubic meters. The Water Truck fill station (WTFs) is located at the Southern Berm of the Reservoir. This is being operated by electricity. Disinfection of water is done inside the WTFs using chlorine prior to filling the tank of the water truck.

The wastewater treatment facility by natural lagoon is located opposite to the community. This is an exfiltration Lagoon with two cells. The Southern cell exfiltrates liquid through the common berm to the next cell. The second cell exfiltrates liquid to the drainage channel through its Eastern and Northern berms. The southern cell was leaking during the summer of 2008 through its bed and into the southern berms. Rubbish from the bed was removed and dumped in the land fill site. The bed was repaired with granular materials and compacted up to the grade. After primary treatment, the liquid flows over the wetlands prior to reaching the sea.

The Landfill site is located to the West of the lagoon. The Southern boundary is only fenced of this facility. The community usually burns garbage during summer, covered the ash with granular material and compacted.

The bulky metal site is located to the South of the Lagoon. The materials of this site are unsegregated. The community is in a process of proper sorting out of the materials. To address the compliance issues, the GN will commission a study to improve the use of the waste management process. From this study, we will be able to know exactly what the needs of the community are. This study will be used to educate the municipality in the proper operation of their landfill site, creating training manual, which will lead to a landfill operation training program through Municipal Training Organization (MTO). This study will be incorporated into the design of the new landfill site to enable the community to properly segregate the solid wastes within the landfill site.