

Hamlet of Kugluktuk: Application to NWB for Water Licence

EXECUTIVE SUMMARY

Enclosed is a water licence application for the Hamlet of Kugluktuk, Nunavut. The Hamlet is seeking a five-year amendment of its current licence. This is valid through 2011 for the disposal of waste, including municipal sewage and solid wastes from the Hamlet of Kugluktuk. The projected population for the Hamlet of Kugluktuk in the year 2011 is 1760 persons.

Currently, the Hamlet of Kugluktuk operates a single wastewater lagoon with effluent discharge to a naturally occurring wetland, which eventually discharges 3 km north into the Coronation Gulf. The wastewater from the Hamlet is collected by truck and deposited in the lagoon, which is approximately 5 km from the community. There have been no complaints regarding odors.

The new sewage lagoon will be sited adjacent to the existing lagoon. It will have a volume capacity of approx. 130,000m³. The lagoon dimensions are 223m length, 223m width with a depth of 3.0m. Sloped berms and a 1.5m high fence surround the lagoon. The fence will have gates at the truck-loading area and the effluent discharge pipe. The top and inside slopes of the berms will be lined but not the base of the sewage lagoon.

The existing solid waste landfill site is post and wire fenced enclosing an area of 1.2 ha. It is located 4.5 km west of the Hamlet. The un-bermed disposal area is 8,220 m², with a maximum depth of 1.5m. Selected solid waste is burned regularly (daily). A separate bulky waste site occupies an area adjacent to the solid waste site.

The solid waste facility will be expanded to an area of 3.0 ha, enclosed by berms that are lined and with a surrounding fence. This new facility will provide increased capacity for the solid waste plus the hazardous waste and the landfarm.

As a component of this licence, the Hamlet of Kugluktuk seeks to expand and upgrade the existing wastewater treatment infrastructure and solid waste disposal site to meet the 20-year requirements of the Hamlet.

Overall, this project will not substantially affect the quality, quantity or flow of water through Inuit Owned Lands.

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