



Environment Environnement
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Our file: 4782 043

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RE: NWB3CLY - Hamlet of Clyde River Water Licence

On behalf of Environment Canada (EC), I have reviewed the information submitted with the above-mentioned application. The following specialist advice has been provided pursuant to Environment Canada's mandated responsibilities for the enforcement of the *Canadian Environmental Protection Act*, Section 36(3) of the *Fisheries Act*, the *Migratory Birds Convention Act*, and the *Species at Risk Act*.

The Hamlet of Clyde River is applying for a new 5-year water license to obtain water for municipal use from Water Source Lake.

Environment Canada requires the following information in order to facilitate the review of this application:

- A copy of the "Clyde River Solid Waste Facility Siting Study", Dillon 2002 referred to in the water license application.
- In the event that the proponent decides to replace the current sewage disposal facility, EC requests information regarding the abandonment and decommissioning of the current sewage disposal facility.
- Detailed information and drawings regarding the present sewage treatment facility, including the size and location of all retaining structures, location of the discharge point, direction and path of wastewater flow from the area, and indications of the distance from watercourses and fish bearing waters.
- Information regarding how the local concerns concerning potential runoff from the hydrocarbon contaminated soil from the local Nunavut Power Corporation site which was deposited at the landfill site are being addressed.
- Environment Canada requests clarification as to the size of the single-cell sewage lagoon, as the water licence application (and supporting documents) indicate that the lagoon is both 6, 000 m² and 19, 500 m³.
- A Spill Contingency Plan, outlining a clear plan of response in the event of a spill, and clearly indicating that all spills are to be documented and reported to the NWT 24 Spill Response Line at (867) 920-8130.

The following recommendations have been included for your consideration and inclusion in the water license:

- Environment Canada recommends that the current solid waste site be fenced to prevent windblown debris from being scattered.
- In order to halt the noticeable leakage of waste oil from the solid waste disposal area, noted in the Indian and Northern Affairs Canada (INAC) 2002 Inspection Report, EC recommends that a berm, or other preventative measure, be constructed at the toe of the facility. According to the Fisheries Act, Section 36(3), the deposition of deleterious substances of any type in water frequented by fish, or in any place under any conditions where the deleterious substance, or any other deleterious substance that results from the deposit of the deleterious substance, may enter any such water, is prohibited.
- Environment Canada recommends that measures be taken to clean-up the hydrocarbon contamination at the solid waste management site. If, as stated in the Ferguson Simek Clark report, the proponent has plans in place to deal with this issue, EC requests that this plan be submitted for review.
- Environment Canada recommends that if the recommendation in the INAC 2002 Inspection Report regarding extending the period of time over which the lagoon was decanted was not been followed, the Hamlet follow the recommendation in order to ensure compliance with the *Guidelines for Canadian Drinking Water Quality* for ammonia and phenol.
- Environment Canada recommends that the proponent segregate hazardous wastes, including batteries and waste oil, from the general waste stream and ensure that any hazardous wastes are disposed of at an approved facility.
- Environment Canada recommends that the proponent erect signage indicating the location of past and present solid waste disposal facilities.
- The INAC 2001 Inspection Report indicates that very little freeboard remains in the sewage lagoon prior to decant, and that this had been a reoccurring problem. If this issue has not already been dealt with, EC recommends that the proponent maintain at least 1 metre of freeboard at the lagoon.

Please do not hesitate to contact me with any questions or comments with regards to the foregoing at (867) 975-4639 or by email at colette.meloche@ec.gc.ca.

Yours truly,

Colette Meloche
Environmental Assessment Specialist

CC: (Mike Fournier, Northern Environmental Assessment Coordinator, Environment Canada, Yellowknife)