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NUNAVUT WATER BOARD
NUNAVUT IMALIRIYIN KATIMAYINGI
OFFICE DES EAUX DU NUNAVUT

File: 3BM-HAL2025

September 10, 2020

Bhabesh Roy, M.A. Sc., P. Eng
Municipal Planning Engineer, GN-CGS
P.O. Box 379
Pond Inlet, NU, X0X 0S0

Email: broy@gov.nu.ca

Subject: Notice of Sewage Lagoon Leak Repair – Water Licence No: 3BM-HAL2025, Hamlet of Hall Beach.

Dear Mr. Roy

The Nunavut Water Board (NWB or Board) received from the Hamlet of Hall Beach (Hamlet or Licensee) on August 5, 2020, the Memorandum entitled, *Notice of Remediation and Leak Testing Procedures for new South Lagoon in Hall Beach*, for Board approval as required under Licence conditions Part C, Item 1.

The Memo outlined the Hamlet's plans to locate a leak in the sewage lagoon liner, repair it, and test the success of the repairs. As outlined in the memo, activities included the following:

- Execute a leak detection exercise of the sewage lagoon by exposing the liner in a segment by segment manner;
- Complete remedial repairs to segments of the liner which are judged to be contributing to the leakage from the lagoon;
- Introduce water from the North Sewage Lagoon into the remediated area;
- Observe the retention of water in the remediated area to determine if the leak was successfully repaired;
- Execute additional remedial work as necessary.

The Memo also indicated that an alternate source of water may be needed to meet water demands for the project, and identified small tundra ponds adjacent to the lagoon as potential sources.

Subsequently, NWB staff requested additional information, including the specific water body to be used as a water source and the volume of water that will be required.

On August 12, 2020, a preliminary response was provided identifying a small pond to potentially be used. On September 9, 2020, the Licensee provided a full response identifying a slightly larger pond to be used, indicated that approximately 4,000 cubic metres of water will be used, and that water use will not exceed 299 cubic metres per day.

The NWB has reviewed the Notice and finds it functional and generally satisfying Licence conditions. By copy of this letter, under the Motion 2020-B1-017, the Board has approved the repair works for the sewage lagoon, including the use of water from an adjacent pond, as per Part C, Item 1 of the Licence.

While granting this approval, the Board will require that the Licensee take all necessary measures to minimize erosion and any impacts to water quality, and to implement their Spill Contingency Plan to avoid any potential contamination of water. The Licensee shall also conduct water quality monitoring in accordance with Licence conditions, and that the site is stable once activities are completed. The Licensee is advised that the total water use and daily water use of up to 299 m³ should be maintained for all water uses as per Part C, Item 1 of the Licence. The Board also advises the Licensee to include a summary of works completed within the 2020 annual report.

Should you have any questions or require any clarification with respect to the above, please feel free to contact the undersigned via email at Derek.Donald@nwb-oen.ca or phone at (867) 360-6338 (Ext. 32).

Sincerely,



Derek Donald
Technical Advisor
NUNAVUT WATER BOARD

Cc: Qikiqtani Distribution List