

Environment  
CanadaEnvironnement  
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Environment Canada  
Environmental protection Branch  
Assessment and Monitoring Section  
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Yellowknife, NT  
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Sept. 14, 1999

Dionne Filiatrault  
Nunavut Water Board  
Gjoa Haven, Nunavut  
X0E 1J0

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**RE: Discharge of Sewage from Lagoon Igloolik.**

In response to your request for information regarding the above proposal and following our telephone conversation of Sept. 03 I have finally had time to provide Environmental Protection Branch's advice in writing. Sorry for the delay but we've been very busy here for the last couple of weeks.

As we discussed on the telephone the following information should be considered when proceeding with this proposal.

- This proposal should be considered as an appropriate action to prevent a situation that could cause a much larger impact. This action should prevent an over topping of the berm during the next spring melt.
- There is a need to correct the problem with the berm. This will likely involve further work to be conducted during the next summer season. Before this work is done the details of how these repairs will be conducted should be provided to the Board for approval.
- Corrective measures are required for the area which presently has melting of permafrost and is contributing to the input to the lagoon. This can either be accomplished by controlling future melting or with the construct of a diversion channel to route the melt water around and away from the sewage lagoons.
- For the immediate decant of the effluent from Cell #3 the following items should be considered :
  1. The decant period should be spaced out over the longest time available. This should allow for a slow pump rate thus allowing the receiving environment more time to assimilate and treat the effluent before it reaches the receiving waters.
  2. Have the discharge point moved to as many locations as possible allowing the effluent to be spread out over a much larger area thus providing for more treatment.

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3. Ensure that the pump is withdrawing effluent from the surface of the lagoon. It is critical that the intake does not start sucking up the loose sediments from the bottom of the lagoon.

If you have any question or comments regarding the above information please contact me at (867) 669-4733.

Sincerely

A handwritten signature in black ink, appearing to read 'Stephen Harbicht', with a long horizontal flourish extending to the right.

Stephen Harbicht  
Head, Assessment and Monitoring  
Environmental Protection Branch  
Yellowknife, NT  
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