



Hamlet of Fort Macpherson
P.O. Box 57
Fort Macpherson, NT X0E 0J0

May 21, 2021

Attention: Ernie Firth, Foreman, Hamlet of Fort MacPherson

Re: Controlled Emergency Sewage Lagoon Decant

File Number: G03L3 – 001

Type of Operation: Type B – Municipal Water License

Dear Mr. Firth,

It is understood that the Hamlet of Fort Macpherson wishes to conduct an emergency decant at the Sewage Disposal Facility (Sewage Lagoon). The purpose of this emergency decant is to lower the water levels in the sewage lagoon to achieve and maintain the required freeboard limit as defined in Part D, Item 3 G03L3 – 001. It is understood that this emergency decant must occur to maintain the integrity of the sewage lagoon and to prevent an eventual uncontrolled discharge.

Further, the sewage lagoon was sampled on May 3rd, 2021, to provide results prior to decant. The results were received and reviewed by Environmental and Natural Resources, Inuvik Regional Office and it was found that the sewage analysis are all within the Water License discharge criteria as defined in Part D, item 2.

Upon review of the preliminary results, it is decided to allow for the controlled emergency decant to maintain the required freeboard and the ultimately prevent uncontrolled discharge. **The Hamlet of Fort Macpherson is authorized to discharge via emergency decant.**

This decision is based on the following:

1. An adequate freeboard (less than 1m) jeopardizes the structural integrity of the lagoon.

The discharge (decant) is subject to the following conditions:

1. Discharge as slow as possible and in a regulated manner. This will allow for high dilution as sewage water slowly moves through the system:
2. Only decant to the permitted freeboard of 1 m (Part D, Item 3 in the Water License G03L3 001). This will ensure the structural integrity of the lagoon: and
3. The Hamlet of Fort Macpherson must adhere to all applicable conditions in the Water License
4. Samples are to be taken at the beginning, middle and completion of decant to see if criteria of the Water License met.

Please contact me if you have any questions or concerns or if you require additional information.



Sincerely,

Lloyd Gruben
Water Resources Officer
Environment and Natural Resources
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Cc:

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