

## Richard Dwyer

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**From:** David Hohnstein [dts@nunavutwaterboard.org]  
**Sent:** Friday, December 12, 2008 10:42 AM  
**To:** BRoy@GOV.NU.CA  
**Cc:** Dionne; Richard Dwyer; Phyllis  
**Subject:** Update on Municipal Files

**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

Good day Bhabesh,

In followup to our conversation on Wednesday December 10, 2008 I am pleased to provide you with an update on the files of interest regarding Clyde River, Kimmirut and Arctic Bay. I do hope these meet your request.

### **Clyde River:**

Following our discussion and your clarification on the effluent quality limits imposed within the licence, Items 8 and 9, and discussions internally within the NWB it was duly noted that the NWB may have interpreted the information provided within the design brief as those levels which would be expected to be achieved at the outfalls of the sewage lagoon and the proposed wetland treatment and had incorporated those into the Licence as maximum allowable levels. Currently, there is an application for renewal in process with the NWB and it is anticipated that the issue of the discharge limits will be addressed during the final technical review of the application and comments received from interested parties.

As you are aware, the application has now been distributed for review (after having received the additional information/clarification from yourself) with a deadline of January 8, 2009. You may want to consider providing your thoughts on the amended licence and where items need to be addressed with the renewal, giving justification for all requests made.

During our discussion, the 1992 Guidelines were mentioned and that the "established guideline" of 120/180 for BOD/TSS respectively should be applied as it has in other communities. Please keep in mind that the guideline takes into account location of discharge and rate of discharge when applying the recommended limits, and that these do remain subject to Board consideration, and possibly stricter limits may be applied. Although the 120/180 has been adopted as a "standard", this may have been a misinterpretation of the guideline for an 'across the board application' from a number of years past. If the location of discharge is considered along with the anticipated flow rate (Lcd), then the guideline of 80/70 is most likely applicable. These remain to be discussed.

Following the close of the review period January 8, 2009, the application will be given a final technical review with a recommendation made to the Board. The intent is that the renewal and the prior issued amendment be combined into one working document. Your concerns with respect to the limits imposed in the amended licence will be address at that time. There is a possibility that the criteria will be addressed earlier at an In-person Board meeting, however without a written request for amendment and taking into consideration the time of year and that discharge would not be planned to take place until the following season, the concerns can be addressed in a timely manner with the renewal process.

### **Kimmirut:**

The review process for the Kimmirut renewal/amendment application is near complete, there were some clarification issues resolved just recently with respect to use of quarries and screening through NIRB that have now been addressed. The understanding of the NWB is that there will NOT be a requirement for a new quarry as this has not yet been screened by NIRB. It was indicated that other current quarries in use may be utilized for the construction projects at Kimmirut, however these quarries may still require a provision by the GN for management plans as identified by INAC in their submission.

Upon having our discussion on Clyde River, the effluent quality limits for the Kimmirut Licence are being reviewed as the same interpretation of the material/information provided was considered for this application. Unfortunately, it appears as though the design of the sewage treatment facilities for Kimmirut do not meet even the minimum effluent quality limits as you have pointed out in the Guideline. These are being reviewed for their application to the facility given that the wetland area has been considered for further treatment (although there does not appear to be a point of control for the wetland). The NWB will need to apply effluent quality limits at the last point of control for the facility, which may be the Lower Sewage Lagoon, and how these will be set remains to be determined. Monitoring requirements may also need to be considered for the determination of effluent quality at the proposed compliance point of the wetland.

Following the final review of effluent quality limits and monitoring requirements to be imposed within the licence, the recommendation will be presented to the Board. With the nearing of the holiday season, it would be our goal to have the file addressed by the Board prior to the office closing of December 19, 2008 or soon after opening January 5, 2009.

#### **Arctic Bay:**

The technical review for this file is nearing completion with the provision of a response provided by the GN, November 12, 2008 on the issues raised by the independent geotechnical consultant retained by the NWB. All comments received will be considered by the NWB in its final assessment of the Amendment application. As above, the file is anticipated to be brought to the Board with recommendations from the staff, soon after office opening following the holiday closure.

I do hope this meets with your current requirements for an update on where these files are in our process. If you have any questions on the above information or would like further clarification, please give me a call at your convenience to discuss at (780) 443-4406, or email at [dts@nunavutwaterboard.org](mailto:dts@nunavutwaterboard.org).

Regards,

David Hohnstein



David Hohnstein, C.E.T.,  
A/Director Technical Services

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