

Rhonda Miller - MVLWB

From: Kathleen Graham [kgraham@mvlwb.com]
Sent: June-17-11 11:36 AM
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Cc: 'Amanda Gauthier - MVLWB'; permits@mvlwb.com; 'Angela Plautz - MVLWB'
Subject: MV2011L3-0001 - Town of Fort Smith - MVLWB's Request to Golder
Attachments: MV2011L3-0001 - Town of Fort Smith - Letter to Golder.pdf

Hello everyone,

As discussed at the Technical Session yesterday, the MVLWB has retained Golder Associates to recommend Effluent Quality Criteria (EQC) in accordance with the Board's recently approved Water and Effluent Quality Management Policy (see attached letter). Golder's report is due at the same time as interventions from reviewers. The proponent may comment on the evidence in its response to interventions and Golder will be available for questions from all parties at the Public Hearing.

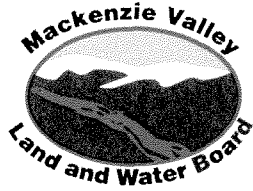
Information, including water quality and quantity data for the Slave River that is required by Golder to complete its recommendations will be forwarded to the entire distribution list in an email later today. Please feel free to use the data/information in your own interventions if you would like.

If you have any concerns or questions about this process, please contact Kathy Racher at 867-765-4591.

Kathleen Graham

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June 14,2011

File: MV2011L3-0001

JP Bechtold and Alison Humphries
Golder Associates

Memo for the Town of Fort Smith water licence renewal

As discussed, the Mackenzie Valley Land and Water Board (MVLWB) is requesting a proposed workplan and budget from Golder Associates on the project described below. Please submit this to Kathy Racher by June 15, 2011.

Project Description:

Recently, the MVLWB recently approved a policy which describes the Board's approach to managing the deposit of waste to the receiving environment through water licence terms and conditions. Effective March 31, 2011, the Water and Effluent Quality Management Policy (the Policy) is being applied to all new and renewal water licence applications including the recent renewal application by the Town of Fort Smith (MV2011L3-0001). At this time, the Board is requesting your services as an independent third-party reviewer to evaluate how to apply the Policy specifically to the Town of Fort Smith's water licence. The Board would like a report or memorandum from Golder and Associates that answers the following questions:

1. The Policy calls for setting EQC for any contaminant or parameter of the waste which has the potential to adversely affect water quality in the receiving environment. Currently the Town of Fort Smith's current water licence (MV2003L3-0006) contains EQC for the following parameters: Suspended Solids (200 mg/L), BOD₅ (300 mg/L), Fecal Coliforms (10⁶ cfu/100mL), oil and grease (no visible sheen) and pH (between 6 and 9). In your professional opinion, are there any other contaminants of concern in the sewage for which it would be appropriate to set an EQC?
2. According to the Policy, EQC are to be set at a level that, at a minimum, will ensure water quality standards for the receiving environment have been met. What, in your professional opinion, would be reasonable water quality standards for the Slave River downstream of the Town of Fort Smith sewage outfall? Please provide a rationale and any assumptions you have made. If there is not enough

information to set water quality objectives at this time, please indicate what information is needed.

3. The Policy states that, on a case-by-case basis, the Board may decide to define a mixing zone between the point of effluent discharge and the point at which water quality standards must be met. In your opinion, is there enough information at this time to reasonably define a mixing zone for the sewage outfall at the Town of Fort Smith? If so, please describe how the mixing zone should be defined and what the main assumptions or uncertainties are in this definition. If not, please indicate what further information and/or studies would be necessary to define a mixing zone in this case.
4. Depending on the responses to the above questions and any other relevant considerations from the Policy, please recommend EQC for TSS, BOD₅, pH, Fecal coliforms and any other parameters identified above for compliance at SNP station# 567-2. Again, please identify any assumptions made in responding to this question.

The requested memorandum needs to be submitted to the Board no later than 5 pm on July 5, 2011. The author of the memo may also be requested to answer questions from reviewers and/or the Board at the planned Public Hearing for the Town of Fort Smith on July 20-21, 2011. The latter can be done in person or by teleconference.

Board staff will provide the following information as well as any other available information as requested:

- Available water quality and quantity data for the Slave River. INAC has been monitoring just upstream of the sewage outfall at the Town of Fort Smith for many years. There is a published report online at: <http://www.ainc-inac.gc.ca/ai/scr/nt/ntr/pubs/SRE-eng.asp> Board staff will contact INAC to see if there is any other data available.
- Raw data from water quality monitoring of the sewage at the end-of-pipe (station SNP 567-2) from 2006 to the present. Samples have been taken monthly and analyzed for TSS, pH, BOD₅, Fecal coliforms and Ammonia.
- Water quantity measurements for the amount of sewage discharge into the Slave River at SNP station #567-2.

Please address all correspondence to Zabey Nevitt, Executive Director of the MVLWB at zabey@mvlwb.com. If you have any questions, please contact Kathy Racher at 867-765-4591.

Sincerely,



Zabey Nevitt
Executive Director