

## Phyllis Beaulieu

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**From:** Jim Rogers [rogersji@inac-ainc.gc.ca]  
**Sent:** Friday, June 13, 2008 2:04 PM  
**To:** Amy Liu; pang\_sao@qiniq.com  
**Cc:** lpeelee ltorcheak; Jeff C&P MacDonald; Keith Pelley; craig.broome@ec.gc.ca; broy@GOV.NU.CA; Malli Aulakh; Robert Eno; Tom Livingston; Phyllis Beaulieu  
**Subject:** Re: Pangnirtung Emergency Works  
**Attachments:** IMG\_01341.jpg; IMG\_01301.jpg; IMG\_01141.jpg



IMG\_01341.jpg  
(308 KB)



IMG\_01301.jpg  
(300 KB)



IMG\_01141.jpg  
(389 KB)

I believe that the SAO of Pang may still be a little busy to reply. Craig Broom of Environment Canada and Peter Kusugak of INAC have both participated in the conference call on the loss of access across the Duvall River from the majority of the Hamlet to the water supply reservoir, land fill and sewage treatment plant. A hose is being used to supply water across the river from one truck to another and garbage is being stored in a warehouse. However, an evaluation by the hamlet and confirmation by Public Health confirmed that the only practical temporary solution for waste water was to dump the sewage trucks directly into the river below the bridges and above the tidal edge to allow dilution and aeration of the sewage plus conveyance by the river flow away from the shore line.

The Nunavut Water Board agreed that work in and around the river during the flood is allowed under the Nunavut Waters and Nunavut Surface Rights Tribunal Act but an emergency amendment to the license is necessary to allow deposition of waste into water. The letter to the Minister of INAC is a request by the Board for consent to waive the 30 day notice so the license may be amended.

The Chief Medical Officer for Nunavut has issued an extension to the health advisory for another 5 days, beginning yesterday at noon.

These issues have been discussed during conference calls on June 9, 10, 11 and 12 amongst a group including GN Health & Social Services, GN Environment, GN Community & Government Services, the Hamlet (SAO), Environment Canada (Craig Broome) and INAC. GN-CGS has been requested to provide an preliminary plan with the actions to be undertaken in the short-term.

I apologize for not including DFO. The event that caused the flood is believed to be rare, however Environment Canada does not operate a continuous monitoring meteorological array in Pangnirtung so an estimated of the frequency or probability of the event will be difficult. The river's bed has been severely degraded by the flood, with estimates at this time of two metres, and the river banks have retreated. From the attached pictures, you can see that the gabions use to sit on the bed of the stream.

>>> "Liu, Amy" <Amy.Liu@dfo-mpo.gc.ca> 13/06/2008 12:05:44 pm >>>  
Hi Ron.

Fisheries and Oceans Canada received the email from the Nunavut Water Board dated June 12, 2008 regarding the emergency situation in the Hamlet of Pangnirtung which also includes the letter from Dr. Isaac Sobol (Chief Medical Officer) and the letter from Peter Kusugak (INAC inspector). It is my understanding that the collapse of the bridge infrastructure has resulted in the need to deposit sewage into the Duval River. The correspondence also indicates that the temporary measure of depositing sewage into the Duval River will be reviewed at the end

of 48 hours from June 10, 2008. Please provide an update on the results from the engineer on the use of the new bridge and a report on the impact to fish and fish habitat resulting from the deposit of sewage into the Duval River.

If the proposed works for the bridge results in a harmful alteration, disruption, or destruction of fish habitat, an authorization under section 35(2) of the Fisheries Act is required. In order to determine the risk to fish and fish habitat from the bridge works, DFO will require a brief project description and sketch as soon as possible regarding the interim measures for review and approval.

Should the Hamlet of Pangnirtung have plans regarding the long-term solution for the crossing over Duval River, emergency work should be replaced as soon as detailed design is complete and an approval issued.

DFO recommends that the detailed plans for the long-term solution be provided and that it indicates the following:

- \* Description of the proposed works
- \* Proposed start date, timing and sequencing of construction
- \* Proposed completion date
- \* Detailed sediment and erosion control plan
- \* Proposed dewatering measures to work in the dry
- \* Proposed materials for bank stabilization including dimensions
- \* Type of crossing including dimensions (Note: crossings must not result in a barrier to fish migration)
- \* Cross-sectional drawings indicating the water level and high water mark, original unstable slope and the proposed slope, filter cloth placement (may be used on slopes only)
- \* Plan view drawing of slope to be stabilized, including length  
(Note: works should follow the natural shoreline with no straightening of the channel)
- \* Vehicle access routes
- \* Vehicle maintenance and refueling areas (these activities should be located a minimum of 30 metres from the watercourse)
- \* Site restoration details
- \* Hydraulic information for the creek/river
- \* Geotechnical information (if applicable)

Section 36(3) of the Fisheries Act prohibits the deposit of deleterious substances into waters frequented by fish. This section of the Act is administered by Environment Canada and therefore DFO recommends that their advice be sought relative to the release of sewage into the Duval River. Given the urgency around this situation, I have contacted Environment Canada and have copied them on this message.

Feel free to contact me if you have any questions.

Regards.

Please note my email has been changed to Amy.Liu@dfo-mpo.gc.ca <mailto:Amy.Liu@dfo-mpo.gc.ca>

Amy Liu

Habitat Management Biologist

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