



June 29, 2012

Phyllis Beaulieu  
Manager of Licensing  
Nunavut Water Board  
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## Re: City of Iqaluit Lake Geraldine Dam Berm Repairs - Environmental Protection Measures

Dear Ms. Beaulieu:

Please accept the following letter as notification of modification for the repairs to Lake Geraldine Berm.

The City of Iqaluit is preparing to repair the north and central sections of the Lake Geraldine Berm during the 2012 construction season.

The repair to Lake Geraldine Dam Berm requires localized repairs to the earth berm located directly north of the Lake Geraldine Dam, in Iqaluit, Nunavut. The scope of work includes the following:

- Repairing localized areas of sediment washout along the top of the berm on the upstream face of the earth berm. Repair efforts will consist of reinstating gravel and rip-rap under our on-site direction/ supervision.

### Environmental Protection Measures:

Berm repair/maintenance activities have the potential to negatively impact the environment by introducing sediment and construction materials (e.g. general refuse, solvents, oil and grease etc.) into water bodies. In addition, operation of machinery and other construction related activities may impact wildlife habitat on the banks and bed of the water body via erosion, sedimentation, and loss of terrestrial and aquatic plant species.

Formal Specifications regarding water body environmental protection measures will be included in the Tender Package for the Lake Geraldine Dam Berm Repair project in order to ensure that negative impacts to the environment are eliminated or mitigated to the extent practicable. It will be made clear within the specifications that the successful proponent for each project must comply with environmental protection measures therein.

Please see a summary of the information that is intended for inclusion in the specifications below:

The following outlines the environmental protection measures that should be undertaken during planned work at the Lake Geraldine Dam in the City of Iqaluit, Nunavut.

- If possible, repairs to the berm should be conducted when lake levels are at their lowest.
- Wherever possible, access to the sites should be on existing roads and trails.

- To minimize erosion, construction should be halted during periods of heavy precipitation and/or runoff.
- Effective berm erosion control measures such as filter cloth, rock, matting, or polyethylene etc. must be installed prior to starting work to prevent the entry of sediment into the water resulting from the operation of machinery or other activities which may disturb the bank or berm.
- When possible all machinery should be operated on land (out of the water) and in a way that minimizes disturbance to the berm and banks of the lake.
- Erosion control measures should be inspected on a regular basis and repairs made as needed.
- Eroded sediment should be contained on-site using devices such as silt fences and sediment traps.
- Machinery should arrive on-site in clean condition and in good repair (i.e. free of any leaks).
- All fuelling, washing and servicing of vehicles must be conducted as far as practicable from the water to prevent any substances from entering the water body.
- Storage of fuel, other materials required for the vehicles, and waste oils/lubricants will be stored in leak-proof containers and as far away from the water as practicable to prevent any spills or leaks from impacting the water body. These materials should also be contained in a secure area to prevent vandalism.
- An emergency spill kit should be kept at the site in case of fluid leaks or spills from machinery. Any spills of fuels etc. should immediately be contained and the contaminated soil removed from the site and disposed of at an approved disposal site. Spill kits vary, but at a minimum should contain the following:
  - Absorbent pads
  - Absorbent socks
  - Absorbent pillows
  - Granular absorbent
  - Hazardous materials disposal bags
  - Nitrile gloves
  - Spill instruction sheet
- All waste construction materials including should be removed from the site and disposed of at an approved disposal site.
- Waste bins for designated for general refuse should be placed at each site.

If you have any questions or concerns regarding the above, please do not hesitate to contact me.

Sincerely,

A handwritten signature in blue ink, appearing to read 'PC Clow', is positioned above the printed name.

Paul Clow  
Project Officer  
City of Iqaluit