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Nunalingni Kavamatkunnilu Pivikhaqautikkut
Ministère des Services Communautaires et gouvernementaux

April 28, 2020

Nunavut Water Board P.O. Box 119 Gjoa Haven, NU X0B 1L0

Attention: Richard Dwyer, Manager of Licensing, Manager of Licensing

RE: Explanation to the Technical comments, letter by DFO, dated March 16, 2020 3BM-CAM 1520 – Renewal Application, Hamlet of Cambridge Bay

Dear Richard

Please find our respond and explanation of the recommendation by DFO as below:

List 1: Screen intake pipes to prevent entrainment or impingement of fish

Our explanation:

- The water withdrawal by twin intake lines are connected with intake screen individually maintaining the code of practice for water intake screen. This information has elaborated in the O&M manual and "as-built" drawings which were submitted to NWB previously. The screen openings are fairly small in size and area that cannot trap small fishes inside, moreover
- > The Water intake lines are equipped with air busting system to de-clog any blockage at the intake point if any time happened. The intake lines are hosed inside the HDPE insulated pipe which has no chemical reaction with water or create any contamination harmful for fish habitats.

List 2: Maintain an appropriate depth and flow (base flow) for the protection of fish habitat Our explanation:

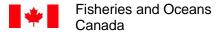
- The water intake points are located in a location allowing a clearance of at least 3 m from the base of the Lake. The intake screen were setup with the screen structure holding the screen downwards and the water intake points are facing upwards, so that water intake will not carry any base flow substrate or moving fish habitat. This type of setup helps control of water flow and allows sediment to moving particles that will not create any scouring to the Lake base.
- > We note that the Water Lake is not permitted for any fishing activities, or feeding to fish habitat.

The Licensee has submitted all Annual Reports of previous years including the 2019.

Best Regards,

Shah Alam, P. Eng. E.P. CAMP Municipal Planning Engineer, Cambridge Bay, NU X0B 0C0 Government of Nunavut, Community and Government Services

CC: Marla Limosin, Chief Administrative Officer, Hamlet of Cambridge Bay, NU Baba Pedersen, Resource Management / Water Resource Officer, AANDC



Pêches et Océans Canada

Central and Arctic Region Fish and Fish Habitat Protection Program 867 Lakeshore Road Burlington, Ontario L7S 1A1 Région centrale et de l'Arctique Programme de protection du poisson et de son habitat 867 chemin Lakeshore Burlington, Ontario L7S 1A1

March 16, 2020

Your file Votre référence 3BM-CAM1520 Our file Notre référence 20-HCAA-00247

Licence Administrator Nunavut Water Board PO Box 119 Gjoa Haven, NT

Dear Richard Dwyer:

Subject: Municipal Water Taking, Water Lake, Cambridge Bay NU (20-HCAA-00247) – Implementation of Measures to Avoid and Mitigate the

Potential for Prohibited Effects to Fish and Fish Habitat

The Fish and Fish Habitat Protection Program (the Program) of Fisheries and Oceans Canada (DFO) received the Hamlet of Cambridge Bay proposal for a Type B water licence renewal on February 25, 2020.

The proposal has been reviewed to determine whether it is likely to result in:

- the death of fish by means other than fishing and the harmful alteration, disruption or destruction of fish habitat which are prohibited under subsections 34.4(1) and 35(1) of the *Fisheries Act*; and,
- effects to listed aquatic species at risk, any part of their critical habitat or the residences of their individuals in a manner which is prohibited under sections 32, 33 and subsection 58(1) of the *Species at Risk Act*.

The aforementioned impacts are prohibited unless authorized under their respective legislation and regulations.

To avoid and mitigate the potential for prohibited effects to fish and fish habitat (as listed above), we recommend the proponent implement the measures listed below:

- Screen intake pipes to prevent entrainment or impingement of fish;
 - Use the code of practice for water intake screens; and,



• Maintain an appropriate depth and flow (i.e., base flow and seasonal flow of water) for the protection of fish and fish habitat.

Provided that the proponent incorporates these measures into their plans, the Program is of the view that the proposal is not likely to result in the contravention of the above mentioned prohibitions and requirements.

Should the proponent's plans change or if any information has been omitted in the proposal, further review by the Program may be required. Consult our website (http://www.dfo-mpo.gc.ca/pnw-ppe/index-eng.html) or consult with a qualified environmental consultant to determine if further review may be necessary. It remains the responsibility of the proponent to remain in compliance with the *Fisheries Act* and the *Species at Risk Act*.

It is also the proponent's *Duty to Notify* DFO if they have caused, or are about to cause, the death of fish by means other than fishing and/or the harmful alteration, disruption or destruction of fish habitat. Such notifications should be directed to FisheriesProtection@dfo-mpo.gc.ca or 1-855-852-8320.

If you have any questions please contact Lisa Wren at our Burlington office at 905-973-8392 or by email at Lisa.Wren@dfo-mpo.gc.ca.

Yours sincerely,

Lisa Wren

A/Team Lead, Triage and Planning

Fish and Fish Habitat Protection Program

CC:

Marla Limousin, Hamlet of Cambridge Bay, mlimousin@cambridgebay.ca
Shah Alam, Government of Nunavut, salam@gov.nu.ca
Deborah Silver, Fisheries and Oceans Canada, deborah.silver@dfo-mpo.gc.ca