



**NIRB File No.: 23YN044**  
NPC File No.: 150112

October 13, 2023

Cian Sherwin  
Real Ice Development Company Limited  
23 Lon Ogwen  
Bangor Gwynedd LL57 2UD United Kingdom

Sent via email: [cian@realice.eco](mailto:cian@realice.eco)

**Re: Notice of Screening for Real Ice Development Company Limited's "Real Ice-November Field Test in Cambridge Bay, Canada" Project Proposal**

Dear Cian Sherwin:

On July 5, 2023 the Nunavut Impact Review Board (NIRB) received a referral to screen Real Ice Development Company Limited's (Real Ice) "Real Ice-November Field Test in Cambridge Bay, Canada" project proposal from the Nunavut Planning Commission (Commission), which noted that the project proposal is outside the area of an applicable regional land use plan. On September 14, 2023 the NIRB received the complete application from the Proponent.

Pursuant to Article 12, Sections 12.4.1 and 12.4.4 of the *Agreement between the Inuit of the Nunavut Settlement Area and Her Majesty the Queen in right of Canada (Nunavut Agreement)* and s. 87 of the *Nunavut Planning and Project Assessment Act*, S.C. 2013, c. 14, s. 2 (*NuPPAA*), the NIRB has commenced screening this project proposal and has assigned it file number **23YN044** - please reference this file number in all future related correspondence.

#### PROJECT OVERVIEW

***Project Scope:***

<b>Project:</b>	Real Ice-November Field Test in Cambridge Bay, Canada				
<b>Region:</b>	Kitikmeot				
<b>Location:</b>	Cambridge Bay				
<b>Closest Community:</b>	Cambridge Bay	<b>Distance (approximate)</b>	Within 10 kilometres (km)	<b>Direction</b>	South

<b>Summary of Project Description:</b>	The Proponent intends to pump ocean water on top of forming ice to determine if this will increase ice formation.
<b>Project Proposed Timeline:</b>	November 2023

According to the project proposal, the scope of the project includes the following undertakings, works or activities:

- Use of a hydrogen fuel cell powered pump to pump seawater on top of sea ice over an area of approximately 1 hectare;
- Monitoring of ice thickness; and
- Use of snowmobiles to access test site

### ***Inclusion or Exclusion of Scoping List***

At this time, the NIRB has identified no additional works or activities in relation to the project proposal. As a result, the NIRB will proceed with screening the project based on the scope as described above.

## REQUEST FOR COMMENTS

All documents received can be accessed from the NIRB's online public registry at [www.nirb.ca/project/125838](http://www.nirb.ca/project/125838) and include:

- *NPC Application and Conformity Determination*
- *Revised NIRB Application*
- *Real Ice Presentation*
- *Fuel Cell Power Station*

The NIRB will copy you on screening process related correspondence and upload related documents to the NIRB's online registry for public access. The NIRB may request additional information at any time during the process.

The NIRB is copying parties and municipalities potentially affected by Real Ice Development Company Limited project proposal with this letter, and we invite interested parties to comment directly to the NIRB by **October 23, 2023**.

The NIRB would like parties to provide comments regarding:

- Whether the project proposal is likely to arouse significant public concern; and if so, why;
- Whether the project proposal is likely to cause significant adverse eco-systemic or socio-economic effects; and if so, why;
- Whether the project proposal is likely to cause significant adverse impacts on wildlife habitat or Inuit harvest activities; and if so, why;
- Whether the project proposal is of a type where the potential adverse effects are highly predictable and mitigable with known technology, (and providing any recommended mitigation measures); and

- Any matter of importance to the Party related to the project proposal.

Please note that *proposed* project-specific terms and conditions, should the project proceed, have been attached for consideration and comment ([Appendix A](#)).

#### CONTACT INFORMATION

Please send your comments to the NIRB via email at [info@nirb.ca](mailto:info@nirb.ca), via fax at (867) 983-2594 or via the individual project dashboard for this assessment on the NIRB's online public registry at [www.nirb.ca/project/125838](http://www.nirb.ca/project/125838).

If you have any questions or require clarification, feel free to contact the undersigned at 867-983-4617 or [kmorrison@nirb.ca](mailto:kmorrison@nirb.ca).

Sincerely,



Keith Morrison  
Manager, Impact Assessment  
Nunavut Impact Review Board

Attachments: Appendix A: *Proposed* Project Specific Terms and Conditions

Enclosures (3): Public Notice of Screening (English)  
Comment Forms (English and Inuinnaqtun)

cc: Distribution List  
Moshe Cote, Nunavut Research Institute  
Alasdair Beattie, Fisheries and Oceans Canada  
Tracey McCaie, Crown-Indigenous Relations and Northern Affairs Canada  
Wynter Kuliktana, Kitikmeot Inuit Association  
Tannis Bolt, Kitikmeot Inuit Association

## **Appendix A: Proposed Project Specific Terms and Conditions**

The following is a list of project-specific terms and conditions which, should the project proceed, may be recommended to be attached to any approval.

### **General**

1. Real Ice Development Company Limited (the Proponent) shall maintain a copy of the Project Terms and Conditions at the site of operation at all times and make it accessible to enforcement officers upon request.
2. The Proponent shall operate in accordance with all commitments stated in correspondence provided to the Nunavut Planning Commission (NPC File No.: 150112), and the NIRB (Online Application Form, September 14, 2023). This information should be accessible to enforcement officers upon request.
3. The Proponent shall operate the site in accordance with all applicable Acts, Regulations and Guidelines.
4. The Proponent shall ensure that it meets the standards and/or limits as set out in the authorizing agencies' permits or licences as required for this project.
5. The Proponent shall ensure that all personnel, staff and contractors are adequately trained prior to commencement of all project activities, and shall be made aware of all operational plans, management plans, guidelines and Proponent commitments relating to the project.

### **Water courses/Water bodies (including fresh and marine waters)**

6. The Proponent shall ensure that water extraction from any fish-bearing waterbody is done with appropriate care and caution.
7. The Proponent shall not deposit, nor permit the deposit of any fuel, chemicals, wastes (including wastewater) or sediment into any water body. The Proponent should have in place an Emergency Spill Response Plan that is approved by the appropriate authorizing agency(ies).

### **Waste Management**

8. The Proponent shall manage all hazardous and non-hazardous waste including food, domestic wastes, debris and petroleum-based chemicals (e.g., greases, gasoline, glycol-based antifreeze) in such a manner to avoid release into the environment and access to wildlife at all times until disposed of appropriately or at an approved facility.
9. The Proponent shall dispose of all combustible wastes as required by the appropriate authorizing agencies. All non-combustible wastes from the project site shall be removed to an approved facility for disposal.

### **Fuel and Chemical Storage**

10. The Proponent shall locate all fuel and other hazardous materials a minimum distance away from the high-water mark of any water body and environmentally sensitive areas as required by the appropriate authorizing agencies. The materials shall be stored in such a manner as to prevent their release into the environment.

11. The Proponent shall use adequate secondary containment or a surface liner (e.g., self-supporting insta-berms and fold-a-tanks) when storing barreled fuel and chemicals at all locations.
12. The Proponent shall ensure that re-fuelling of all equipment occurs a minimum distance away from the high-water mark of any water body as required by the appropriate authorizing agencies.
13. All fuel and chemical storage containers must be clearly marked with the Proponent's name for ease of identification.
14. The Proponent shall have a Spill Contingency Plan in place at all fuel storage or transfer locations and shall ensure that appropriate spill response equipment and clean-up materials (e.g., shovels, pumps, barrels, drip pans, and absorbents) are readily available.
15. The Proponent shall follow the authorizing agencies' direction for management and removal of hazardous materials and wastes (e.g., contaminated soils, sediment and waste oil).
16. The Proponent shall ensure that wildlife deterrent systems are utilized at the time of a spill incident in order to avoid wildlife (terrestrial or marine) and migratory birds from being contaminated.
17. The Proponent shall ensure that all spills of fuel or other deleterious materials of 100 litres or more must be reported immediately to the 24-hour Spill Line at (867) 920-8130.

#### **Wildlife – General**

18. The Proponent shall not substantially alter or damage or destroy any wildlife habitat in conducting this operation unless otherwise authorized by the appropriate authorizing agencies.
19. The Proponent shall not chase, weary, harass or molest wildlife. This includes persistently circling, chasing, hovering over, pursuing or in any other way harass wildlife, or disturbing large groups of animals.
20. The Proponent shall not hunt or fish, unless proper Nunavut authorizations have been acquired.

#### **Caribou and Muskoxen Disturbance**

21. The Proponent shall avoid interfering with any paths or crossings known to be frequented by caribou during periods of migration as identified by current land use plans in place and/or by Inuit Qaujimaningit.
22. The Proponent shall not locate any operation or undertake activities that could block or cause any diversion to migration of caribou or muskoxen.
23. The Proponent shall immediately cease activities likely to interfere with the migration or calving of caribou or muskoxen until such time as the caribou or muskox have passed.

#### **Road and Ground Disturbance**

24. The Proponent shall not move any equipment or vehicles without prior testing the thickness of the ice to ensure the ice is in a state capable of fully supporting the equipment or vehicles.

## **Land Use and Restoration of Disturbed Areas**

25. The Proponent shall remove all garbage, fuel and equipment at the end of each field season and/or upon completion of work and/or upon abandonment.
26. The Proponent shall ensure that all disturbed areas are restored to a stable or pre-disturbed state using Best Available Technology Economically Achievable (BATEA) upon completion of work and/or abandonment.
27. The Proponent shall suspend all project activities should any dead fish or wildlife (both marine and terrestrial), or any injured wildlife be observed during any works or activities in and around the marine waters. Activities may only be resumed on the recommendation of the authorizing agencies.
28. The Proponent shall report all incidents, injuries or sightings of marine mammals to the appropriate authorizing agencies.
29. The Proponent shall implement measures designed to minimize disturbance to seabed sediments and benthic communities and marine wildlife when carrying out project activities within the marine environment.

## **Other**

30. The Proponent should engage with local residents regarding planned activities in the area and should solicit available Inuit Qaujimaningit and information regarding current recreational and traditional usage of the project area which may inform project activities. Posting of translated public notices and direct engagement with potentially interested groups and individuals prior to undertaking project activities is strongly encouraged.
31. The Proponent shall ensure that project activities do not interfere with Inuit wildlife harvesting or traditional land use activities.
32. The Proponent should, to the extent possible, hire local people and access local services where possible.