

Nunalaani Kangiqhidjutikkut Katimavikhat "Back River Project Energy Centre" Tukhiut

NIRB-kut tutquqtakhanut No. 12MN036





Why are we here? Huuq hamaniitugut?

To explain the Nunavut Impact Review Board (NIRB) Reconsideration process

Naunaijariangani Nunavunmi Avatilirinirmut Katimajiit (NIRB) Ihumagiffaangnikkut havauhiit

To explain the scopes of the Back River Energy Centre Proposal

Naunairiami anginingit talvani Back River Energy Centre Tukhirutimi

To listen to your questions, comments and concerns.

Naalaklugit apiqhuutitit, uqaqtatit ihumaaluutillu.

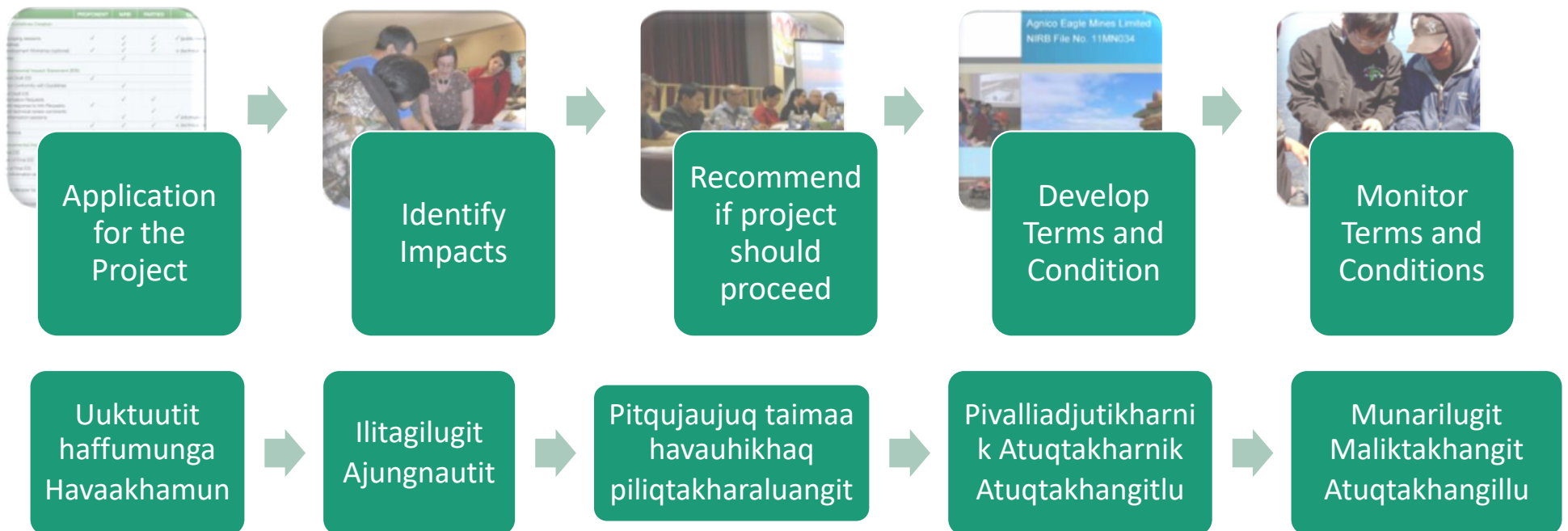
Who We Are

Kinauvita

- The Nunavut Impact Review Board (NIRB) is an institution of public government responsible for environmental impact assessment of proposed projects in Nunavut
- Nunavunmi Avatilirinirmut Katimajiit (NIRB) katimajiujuq kavamatkunni munarijakhait avatinganut pilaqutinga naunaijainiq pitqujaujuq havauhikhat Nunavunmi
- **The NIRB's Mission:**
 - To protect and promote the well being of the Environment and Nunavummiut through our work
- **NIRB-kut Havaakhaa:**
 - Munarijaangani uvalu akhuugutigilugu inuuhiqattiangniq Avatiliqijit uvalu Nunavunmiut havaktaptingut

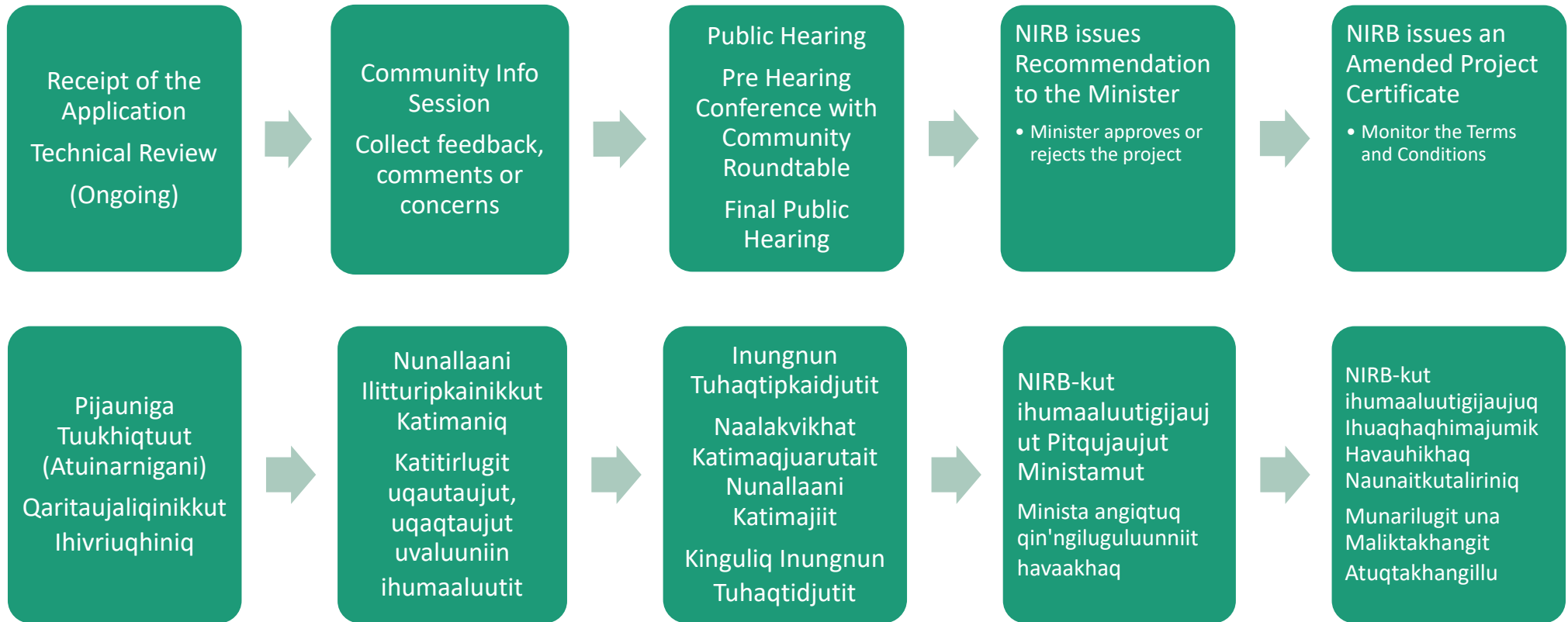


What we do Huliniaqqita



NIRB Reconsideration Process

NIRB-kut Ihumaliuffaangmata Havaanga



Back River Gold Mine Project Sabina Gold and Silver Corp.

Back River Gold Ujaraktarvik Havaakhaq Sabina
Gold unalu Silver Corp.

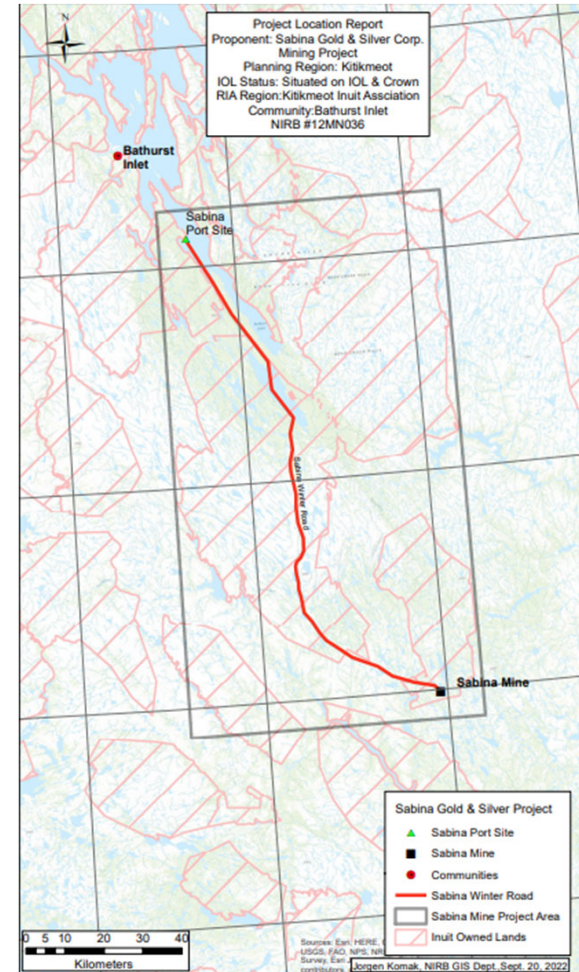


Back River Gold Mine

- Three (3) main components
 - Marine Laydown Area
 - Winter Ice Road – 130 km
 - Goose Camp
- The Goose Property has four (4) deposits
- Mine currently under construction

Back River Gold Ujarakiutit

- Pingahut (3) ilalungit
 - Tariumi Iliurarvikhat najugaa
 - Ukiumi Hikumi Apquti – 130 km
 - Goose Camp
- Goose Property piqaqtuq hitamanik (4) akiligiqhimaqut
- Goose Tangmaarvikhangit tadja hanajauligtut

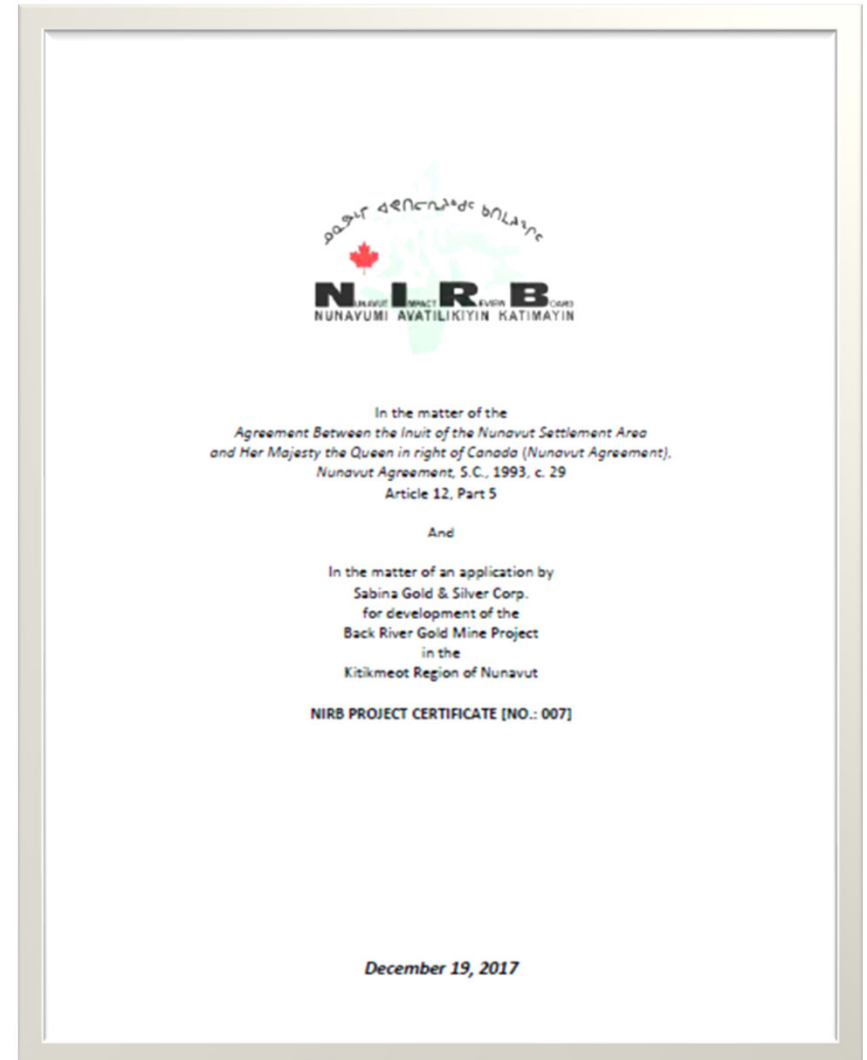


Back River Project Certificate No.007

- Project Certificate No. 007 was issued on December 19, 2017.
- 94 Terms and Conditions to limit adverse ecosystemic and socioeconomic effects

HBack River Project Naunaitkut No.007

- Havaakhamut Naunaitkut No. 007 tunijaujuq uvani December 19, 2017.
- 94 Maliktakhangit Atuqtakhangillu ikiglinahuarutikhanut ihuittumik inuuhingit imaalu inuuhinut maniliurutikhanut pidjuta uvaktunut

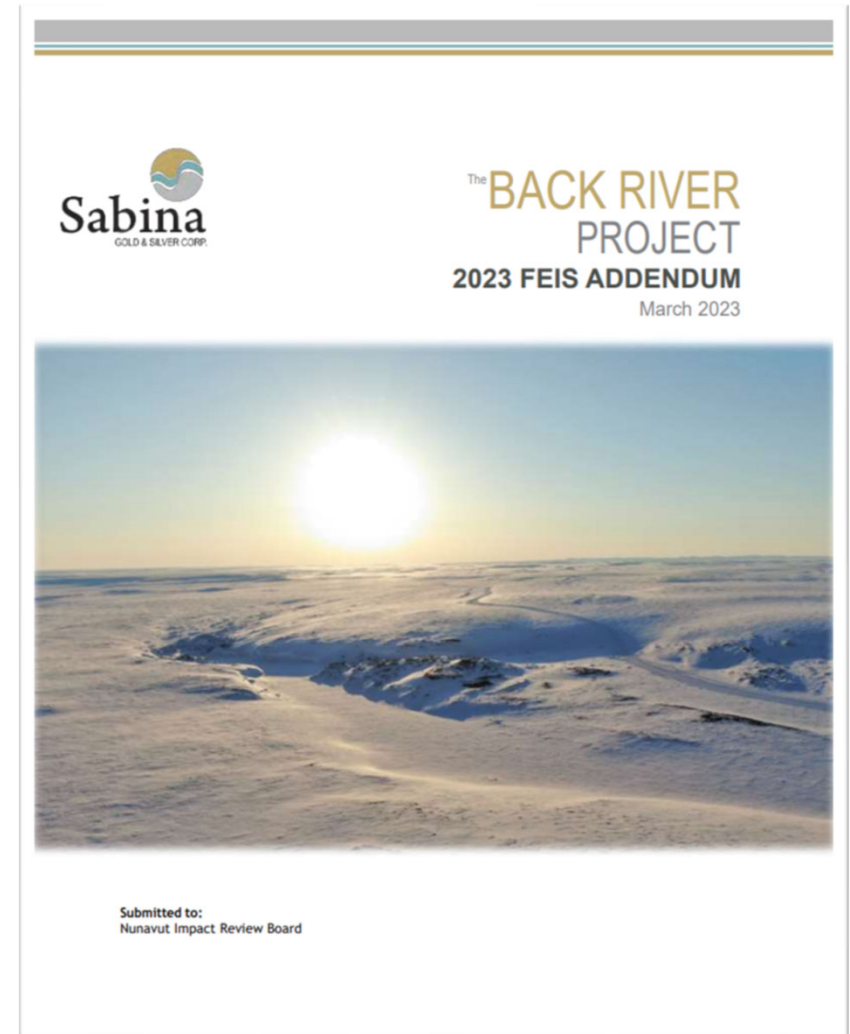


Final Environmental Impact Statement Addendum (FEIS)

- Final version submitted March 2023
- Project Description
 - 13 Wind Turbines – Close to the mine site
 - 5-7 kilometers of electrical transmission lines laid on the ground
 - Construction Electrical Station Pad (400m x 400m), including
 - a 200m x 400m solar array and
 - a Battery Energy Storage Consisting of 10 seacans
- Effects Assessment

Kinguliq Avatimut Hulaqutinun Uqaqtait Ilaliutihimajut (FEIS)

- Kinguliq titiraqhimajuq tujuqtaujukhaq March 2023
- Havaakhap Naunaitkutaa
 - 13 Anurimit Pauwalliurutit Kaivaluaqtut – Qanituani Goose Ujarakhiurvik
 - 5-7 kilometers alrujiqijit alrujanik iliuraqtauhimajut nunamut
 - Nappaktirijut Alrujaqarviit Pad, 400m x 400m – ilaujut hiqiniq 200m x 400m unalu Baatuliqtuqtunik Tutquumavik piqaqtuq 10 tariunik
- Akturningit Naunaijarni



Rational for the Project

- To reduce fuel consumption at site
- Lower the cost of Energy
- Reduce fuel logistics

Ihumagijauninga Havaakhamut

- Ikiklijumiqtitijaangat urhuqjuangit niuqagianganik talvani najugaani
- Akikhijuumirlugu akia Auladjutip
- Ikiklijumiqtitijaangat urhuqjuangit auladjutikharnik



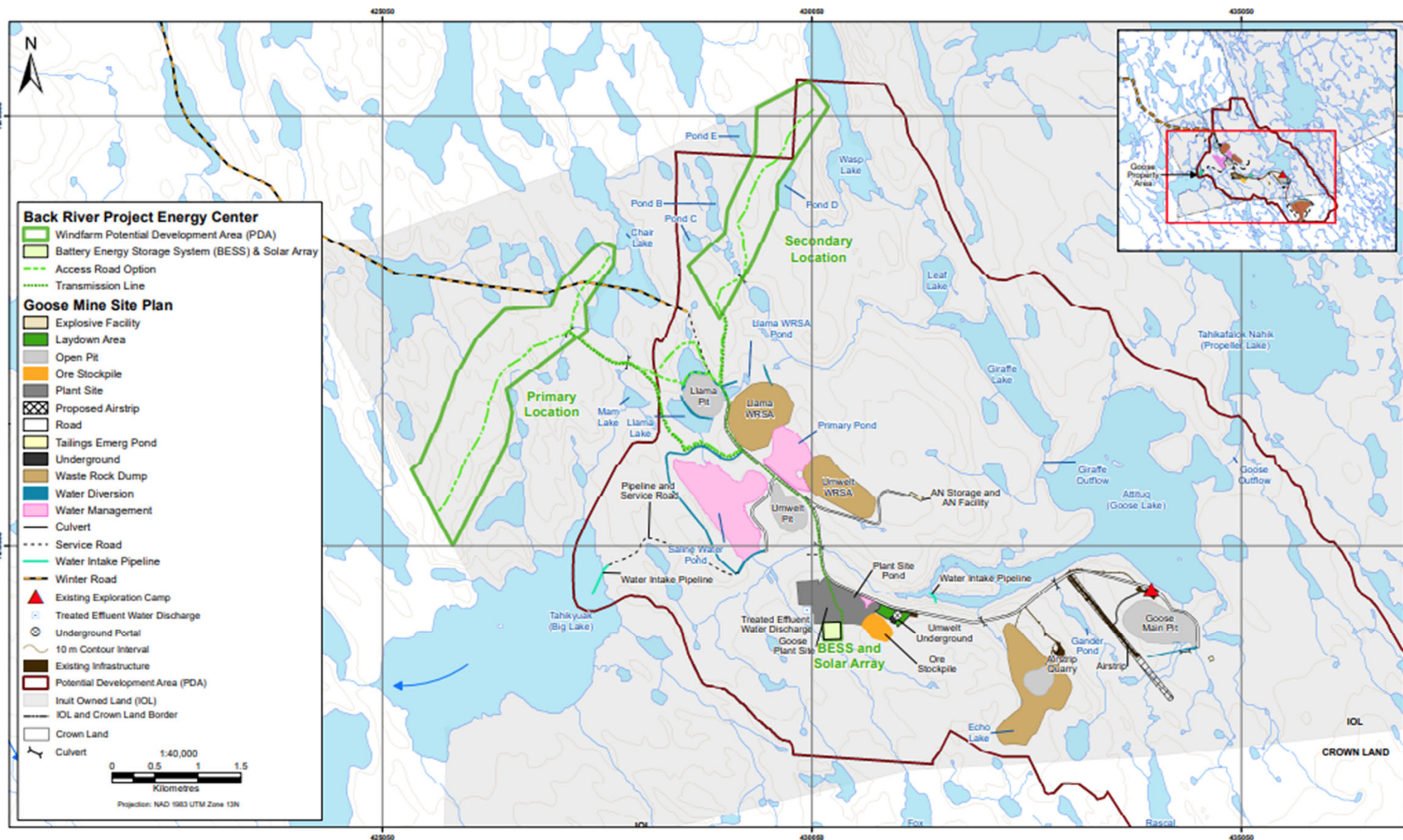
Reduction of up to
**~700 fuel
truck trips**
per year

Reduction of
~15% sealifts
per year



~50%
less fuel per year

~50%
less greenhouse
gas emissions



BACK RIVER ENERGY CENTRE PROJECT

The Back River Project Energy Centre, a wind generation facility, solar panel array and Battery Energy Storage System, capable of supplying clean energy to the Back River Project Mine.

Up to **13** planned
Wind Turbine Generators.

Between
4.0 and 4.5 MW
power capacity per wind turbine giving
the system a generation capacity of
approximately 55 MW of electricity,
which is sufficient to cleanly power
the Back River Project Mine.

Hub Height 111 m

Rotor Length 69 m

Rotor Diameter 138 m

**Solar Array and
Electrical Station**
will be located near the
Diesel Power Plant.

Electrical transmission lines will be laid
directly on the tundra and/or laid directly adjacent
to the access roads and covered with aggregate.

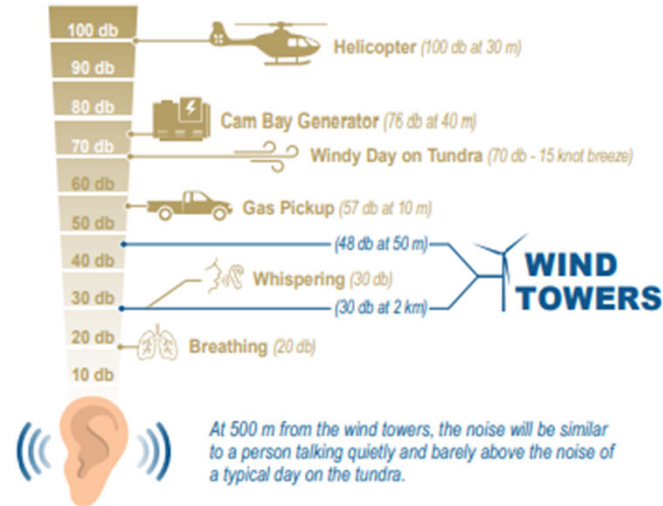
Solar panels may also be added.

Approximately
500 m
between wind turbines.

Additional electricity generated by the wind turbines and solar array will be stored by the **Battery Energy Storage System**. The Battery Energy Storage System consists of lithium-ion batteries stored in a seacan on an aggregate pad and will be capable of storing energy to be used at times when wind and solar energy is not available.

NOISE

Sabina conducted noise modeling to determine how loud the wind towers will be at various distances. Noise is measured in decibels (db) which is a logarithmic scale. That means the noise you hear doubles with every 7 db.



HEIGHT COMPARISON



Effects Assessment Hulaqutit Naunaijautit Summary Naittumik

- Atmospheric Environment
 - Noise & Air Quality
- Wildlife
 - Birds and Terrestrial wildlife
- Human Environment
 - Socio-economics
 - Land Use

- Natqaani Avatingit
 - Nipiquqtujuq
- Uumajunik
 - Tingmidjat imaalu Nunamiuttat uumajut
- Inungnut Avatingat
 - Inuuhirmi-manikhaqhiurutinilu
 - Nunannga Aturninnga

Key Questions to ask

- What environmental or socio-economic components are important to you?
- What potential effects do you think this Project might have on the land, animals and people?
- What do you think about the Project Proposal?
- General Comments, Questions or Concerns

Apiqqutit ihumagijakhat

- Hunamik ihumavit talvuuna Havaaqhangit Tukhidjutikharnik?
- Uqaqtait, Apiqhuutit uvaluuniin Ihumaaluutit
- Hunat avatiinun uvaluuniin inungnun-maniliungnikkut ilaujut akhuungnaqtut ilingnun?
- Hunat hulaqutauniaqqat ihumagivigit una Havaaq piniarungnarhiva nunami, huradjani inungnilu?



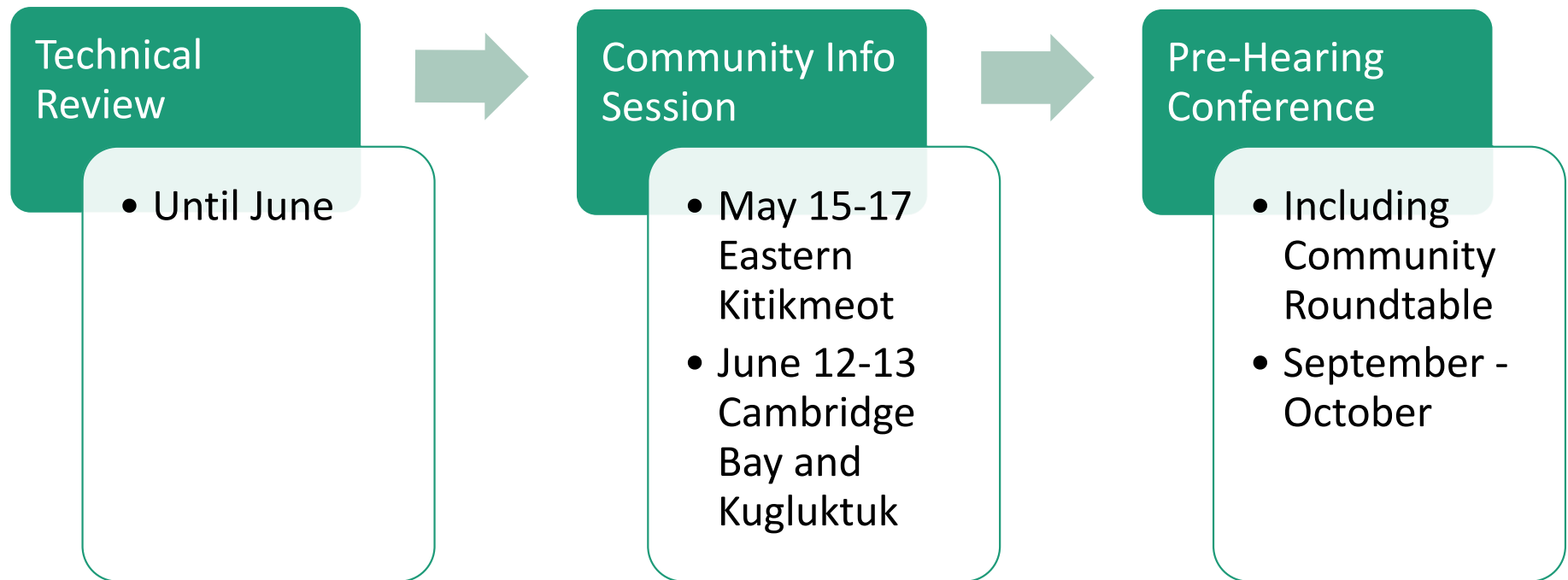
How you can get involved

- Provide feedback today to staff or on the comment forms
- Review material online: www.nirb.ca/project/125740
- Register for a NIRB account at www.nirb.ca and follow the project (12MN036) to receive updates and notifications
- Submit written comments and questions: info@nirb.ca
- Phone the NIRB's office toll free: 1-866-233-3033
- Participate in next Public Hearing as a representative from your community

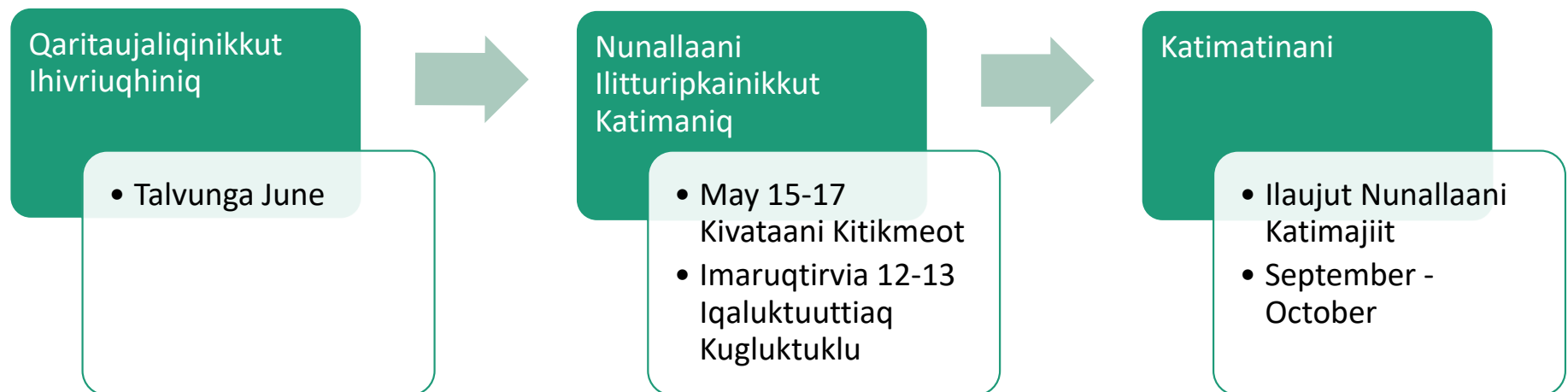
Qanuq ilauniaqqit

- Tunihilitik uqagahanik ublumi havaktunun uvaluuniin uqaraujunun titirarvikhanut
- Ihivriurlugu hunavaluit qaritaujakkut: www.nirb.ca/project/125740
- Atiliurlutit NIRB-kut maniqarvinga www.nirb.ca maliklugulu havauhikhaq (12MN036) pigiamingni naunaipkaidjutinik naunaipkaidjutiniklu
- Tujurlugit titiraqhimajut uqagahat apiqhuutillu: info@nirb.ca
- Hivajautaa NIRB-kut havakvinga akiittukkut: 1-866-233-3033
- Ilaulutit tukliani Inungnun Tuhaqtipkainikkut havaktiupluni nunallaarni

Next Steps in the NIRB process



Tukliit Qanuriliurutikhat NIRB-kut havaanganut



Questions / Comments
Apikutit / Uqautit

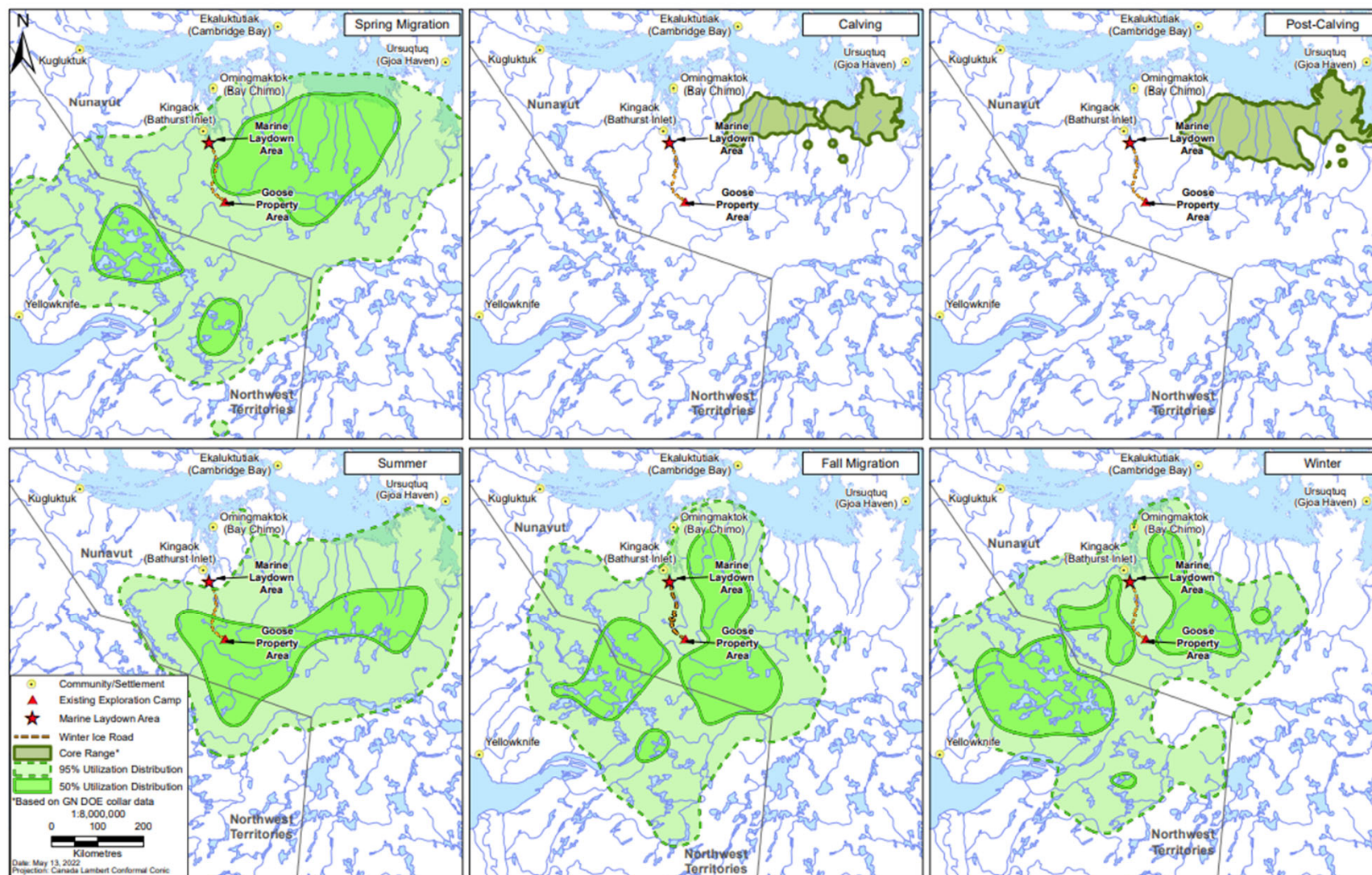


Figure 2.3-2: Utilization Distributions of Beverly and Ahik Caribou by Season, from Satellite Collar Data 2012-2021

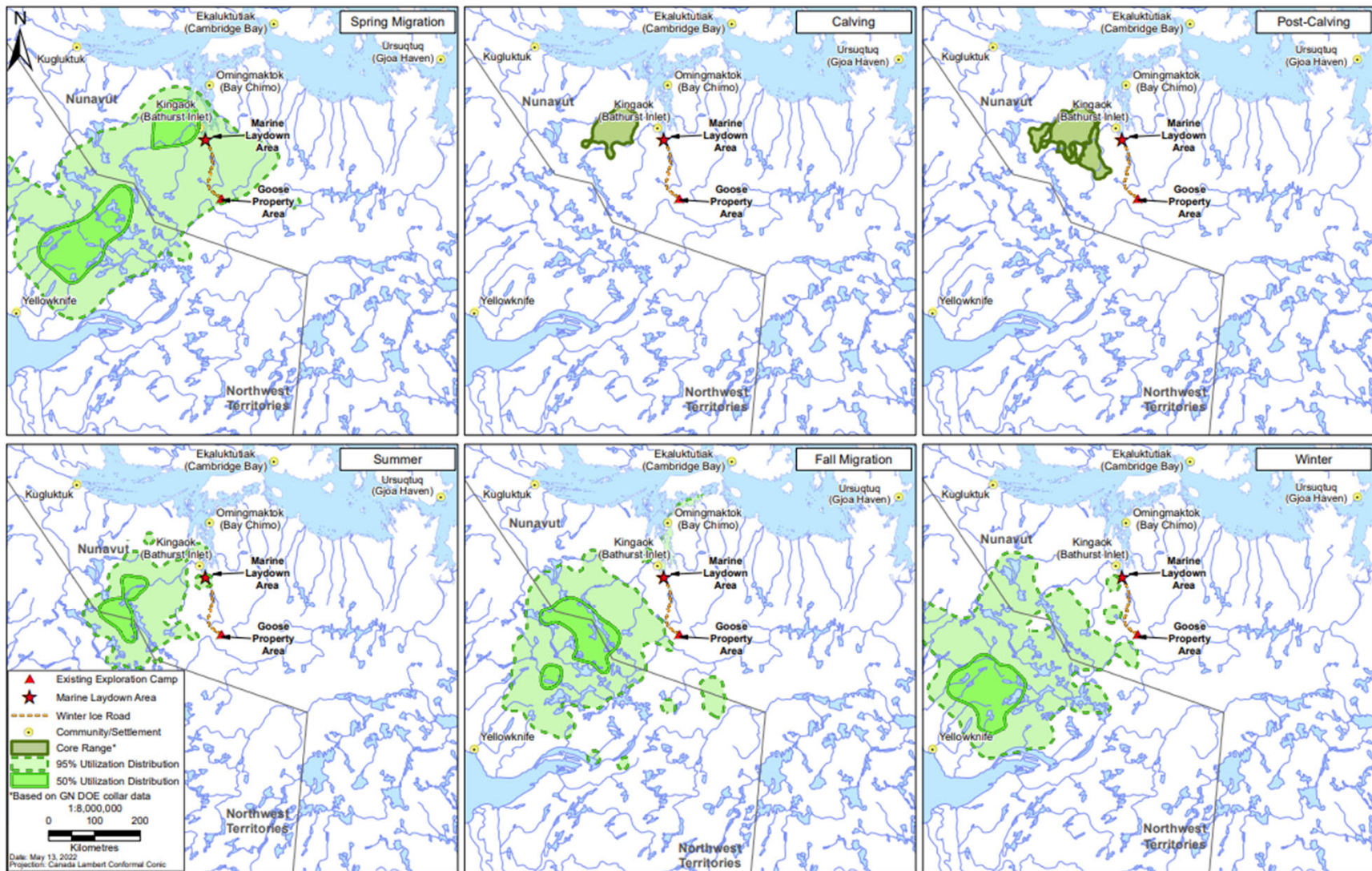


Figure 2.3-3: Utilization Distributions of Bathurst Caribou by Season, from Satellite Collar Data 2012-2021