



## NIRB Uuktuutinga Ihivriuqhikhamut #126201

### **Monitoring the movement, habitat use, and overall health and function of Arctic fishes across freshwater and marine ecosystems in the Cambridge Bay area**

**Uuktuutinga Qanurittuq:** New

**Havaap Qanurittunia:** Scientific Research

**Uuktuutinga Ublua:** Wednesday, June 18, 2025

**Period of operation:** from 2025-03-24 to 2035-05-24

**Havauhikhaq Ikayuqtinga:**  
Les Harris  
Fisheries and Oceans Canada  
501 University Crescent  
Winnipeg MB R3T 2N6  
Canada  
Hivayautit Nampanga:: 1-204-880-0421, Kayumiktukkut Nampanga::

# QANURITTUT

## Tukihiannaqtunik havaariyauyumayumik uqauhiuyun

Qablunaatitut: Aquatic resources - notably many fish species - are central to Inuit health, culture, and economic development. Understanding the environmental drivers of fish availability and quality in the context of a rapidly changing Arctic is essential to ensure their continued sustainability and availability. Our long-term (>15 years) research program in Cambridge Bay has documented spatial, temporal, and physiological aspects of habitat use and migrations of Arctic Char. We've used cutting-edge approaches, incorporating acoustic telemetry, genomics, ecological physiology, contaminant monitoring, and oceanography. Here, we aim to build upon these ongoing research efforts but also significantly extend the reach of our program by expanding acoustic tracking, physiological, and ecotoxicological investigations into several ecologically and culturally important fish species such as lake trout, cod (ogac) and sculpins (kanayok). Acoustic tracking will be used to monitor the movement, behaviour, and habitat use, and to identify critical habitats such as those used for spawning and overwintering in several species of importance. This method involves the implantation of small acoustic tags into the body cavity of the fish that can then be "heard" by acoustic receivers that will be deployed thought the marine and freshwater environments.

Physiological measurements will be used to characterize the influence of temperature and oxygen changes (both seasonal and rapid changes) on the health and function of fishes. This work will involve measuring several parameters related to fish health such as heart function, metabolism, and energy balance. Acoustic tracking data will also provide information on temperatures experienced by fishes in the area which can be integrated with information regarding their physiology. Ecotoxicological work will be used to investigate the types and abundance of emerging contaminants, including plastics, ship- / oil-based pollution, and PFAS, in key habitats in the region in addition to the sources, fates, and transport of these contaminants. Aquatic passive samplers will be used to track sources and transport of these contaminants in the environment and biological sampling to track the fate and transport of contaminants through the ecosystem. These aquatic passive samplers compliment decades long aquatic passive sampler deployments in Nunavut through the AQUA-GAPS network and Environment and Climate Change Canada. Sampling of surface water, aquatic and thawed surface sediments, and Arctic char tissues will also be used to answer questions and concerns from the EHTO and community partners on the release of contaminants via permafrost thaw into critical fish and their habitats. Water samples will be obtained by filling 1L stainless steel, glass, and/or polyethylene water bottles (40L/year). Sediment samples will be taken by scooping sediment into 100-500ml whirl-pak bags and/or stainless steel/glass jars (20L/yr). By taking paired water and sediment samples, we will begin to understand the of contaminants that are entering critical fish habitats, and through contaminant pattern assessments begin to pin-point potential sources (e.g., permafrost thaw, wastewater effluent, shipping); thus, informing priority contaminants to monitor as the Arctic experiences rapid warming. Further, new collaborations will be built to explore the biological drivers of fish habitat quality in both freshwater and in the oceans. In lakes, we will explore how juvenile fish habitat use is linked to seasonal and diel patterns of plankton vertical migrations and abundance. Using our acoustic array in the marine environment, we will assess if kelp forests in the Cambridge Bay area are important marine summer feeding habitats for Arctic Char and other fish species. Finally, we will use environmental DNA (eDNA) methods to help characterize seasonal and spatial variation in the distribution and abundance of these fish species. Most work will be based out of the community of Cambridge Bay with personnel residing on site at the Canadian High Arctic Research Station (CHARS) except for two 5-10 day camps on the land per year. Camps will consist of 4 people with a total of 80-person camp days per year. The team has been working in close collaboration with the Ekaluktutiak Hunters & Trappers Organization (EHTO) for > 16 years and the board has provided support and will be a key partner on the project, assisting with sampling logistics (including the hiring of local experts) and in the organization of annual community outreach events. Overall, the proposed project will contribute significantly to our understanding of climate change impacts on fish and the fisheries they support. It will do so through extended long-term monitoring of contaminant trends, fish behavior and performance in relations with physicochemical habitats characteristics. Furthermore, by bridging data on lower food web and aquatic habitats, this project will also lay the foundations for an ecosystem-based management approach of culturally and economically important Arctic fish species.

## Uiviititut:

N/A

Inuinnaqtun: Imarmiuttat atugakhaliurnirmullu – pidjutit ilittornaqtut amigaittunik iqualukhiuktukhanik nirjutinik – akunnganik Inuit inuuhirinnaqtumiglu, pitquhiquqaptunik, uvuunalu havaakhaliurnirmullu aullaqtirutikhanik. Kangiqhigiami avatinganik aquttut iqualungnik piinariaalaqininga qanurittaakhaaniglu pipluni qilaminnaaq aallannguqtuq Ukiuqtaqtumi ihariagijaujuq naunairiamti pihimmaaqtuq nungulaittumut piinariaalaqiningal. Hivitujumik (> 15nik ukiunik) ihivriurnikkut pinahuarutit Iqualuktuttami titiraqtut najugait, atukaffaaqtut, uvvalu iqajarnikkut pidjutit najugait aturningit uvvalu nuutirniit Ukiuqtaqtumi Iqualukpit. Atuqtugut kibluiqhimajunik upautidjutit, ilaliutiblugin uuktuutinirnunut nirjutit ingilraliningit, ingattaqhimailinirnut, nunami iqajarnikkut, halumailrunik munaridjutinik, uvvalu tarjutigut iqajarnikkut. Hamani, piniaqtugut nappaqtigjaangat ukuninga aulahimmaaqtunik ihivriudjutikharnik pidjutikharnik kihimi anginirmik tikiutijaangat havaakhangit taimaa angiglijuumirutikharnik auladjutikharnik, iqajaliqinikkut, unalu nunami ihivriurutikharnik qaffiujunik pitquhiliqinikkut akhuurnaqtunik iqualungnik huradjanik taimaittunik tahirmi ihuuq, uugak (ogac) halumailrungillu kanajuq (kanayok). Naunaijainikkut naunaijainiq atuqtauniaqtuq munarigiami ingilraninga, pitquhinga, najugangillu aturninga, ilitarigiamilu hivitujut najugangit ukunatitut tahapkuat atuqtaujut akhuraaluk amihuuniglu huradjanik akhuurninganik. Una pidjuhiq ililik naunaipkutat mikijut atatat timingat ilulia iqualungnut tamnaunia "turaangajut" tapkunannga apjaqtunnit pidjutaunia pijauniat ihumani tarjumi halumajut imaq avatait. Iqajarnikkut aktilaangit atuqtauniaqtut naunaijariangani uunarniit uvvalu aniqhaarut aallanngurningit (tamarnik ukiutigut uvvalu qilamik aallannguqtirningit) aanniaqtailinikkut uvvalu auladjutainun iqualukhiuqtut. Una havaakhaq ilauqarniaqtuq qaffiujunik atuqtakharnik aulahimajut talvuuna iqualungnik inuuhirinrikut taimaittunik uummatiliqinikkut auladjutikharnik, auladjutikharniglu, unalu qullirutikharnik. Naunaijaqhugit naunaijautit tunihiniaqtut kangiqhidjutinik uunarniitigut atuqtaujut iqualukhiuqtinit kitut ilaujut kangiqhidjutinik mikhaagut iqajarnikkut. Havagvik nalunaqtuliqinikkut taapkua pidjutigijait idjuhiit, hulaqutit, ilauqatigiingnirmullu hunat taapkua hivuuranaqtut avatiptingnut havaktaujuukhat ihivriuriangani qanurittut amigainingilu halumailrut, ukualu palaastiit, umiat/uqhurjuat halumailrut, PFAS-ju, nunajijainit nunami ilagiarutini ihuaqtini, uqhurnik, aullaqtittijaanganilu ukuninga halumailrunik. Naluuyaqtut naunaiyagakhat atuqtauniaqtut naunaiyagiangani ikayuutit uvalu akyaqlugit hapku halumailgut avatingini uvalu huradjet ihivgiugutit naunaiyagiangani halumailgut avatingitigut. Hapkuat imarmiutanik qangiutivaktun ihivriudjutikharnik nan'ngaridjutit 10-nik ukiunganik aulahimaanginaqtun ihivriudjutikharnik aulatitivakhimayut Nunavunmi talvuuna Naluuyaqtut Nunarjuami Aitturnikkut Uuktuutit (AQUA-GAPS) qaritaujaliqidjutitigun Avatiliqijitkullu Hilaup Aallannguqtirninga Kanatami. Ihivriudjutikhangit qaanganiitunik imarnik, imarmiutanik mahaktiqhimajuniglu qaanganiitunik nunangit, Unalu Iqualukpiit kakijjautikhangit atuqtauniaqtun kiujaangat apiqquutingnik ihumagijauhimajuniglu talvannga Ekaluktutiak Anguniaqtit Naniriaqtunullu Katimajit EHTO-mit nunallaanilu ilaqtigijiktunik talvuuna halumaittunik talvuuna nunap qiqumaninga mahaktiqpallianiaqtun akhuurnaqtunik iqualungnik nunajijainiglu. Imarmik naunaijagakhat pijauniaqqut 1 L qipliqtut haviit, hikuliat, uvvalu/uvvaluniit ajurnaqpiaktuq, qullirmik, ihuaqhijuminaqtumik maniktuq halumailrut piliuqtauhimajauq qiplariktunnuat halumailrut, atuqtaujuq palaastik puukhanik, niqinik puukhanik, aallaniglu puuqhimajunik imarmik hikuliat (40 L/ukiuq). Nunavaluit naunaijagakhat pijauniaqtut 100-500 ml whirl-pak puukattaq taamnalu/uvvaluniit qipliqtut haviit/hikuliac puukhangit (20 L/ukiuq). Piplugit imait nunalu naunaijagakhat, kangiqhilirniaqtugut halumailrut itilijut ihariagijaujunik iqualuit najugainik, halumailruniglu atuqtaujunik naunaijaijut piniqhalihaliqhutik (ilaa, nunap qiqumaninga auktuqpallianinganik, kuvigarvikhat, uhidjutit); talvuuna, ilittuqhajaaangat pijumalluaqtainik halumaittunik munaridjutikharnik Ukiuktaqtuni atuqakhimajainik qilaminnaaq. Imaalu, nutaat havaqatigiingningit havaktauniaqtut qiniqhialutik akhaluutinik iqualungnik huradjanik qanuriningit tamarnik imap uvvalu tarjumi. Tattit iluani, qiniqhianiaqtugut qanuq iqualugait najugait atuqtaujut atadjutiqaqtut ukiutigut uvvalu uqhurjuanik auladjutainik upalungaijautini aulaningit uvvalu amigainingit. Aturlutik nivjavajanik tarjurmi avatingnit,

ihivriurniaqtugut tarjum natqua nauttiat Iqaluktuuttiami najugaani akhuurnaqtun tarjurmi aujamni niriyaangat najugaingit talvani Iqalukpiit aallaniglu iqalungnik huradjanik. Kingulliqpamik, aturniaqtugut avatiliqinikkut DNA (eDNA) hanaqidjutikharnik ikajurianganik naunaijajaangat ukiungani najugaanilu naunairutiqaqtun talvani nunamiittunik amigaitilaangillu ukuninga iqalungnik huradjanik. Amigainiqhat havaat piutiqaqniaqtut nunagiayumi Iqaluktuuttiami havaktunik igluqaqtunik talvani Kanatamiut Qutktumi Ilituqhaivikmi Havakviyumi (CHARS) kihiani malruuknik 5-nit 10-ni ubluni aulaaqtitiyuni maniqami atuni ukiumi. Tangmarviit piqarniaqtut 4-nik inungnik ataattimut 80-inungnik katimajaqturviujuni ubluni atauhirmi ukiumi. Ikajuqtigiiit havaqatigaqtut qaniniqhanik havaqatigiingninginik Ekaluktutiak Angunahuaqtit Timijuni (EHTO) > 16-ni ukiuni katimajinilu pipkaijut ikajuutinik ikajuqtigiilluarninginik havaami, ikajuqhutik naunaijagakhanik aulaninginik (ilaujullu havaktikhaqhiuriangani nunagijaujumi ajunngittut) timiujullu aippaagutuaraangat nunagijaujumi uqaqatigiigutinik huliviuunik. Tamainnit, atulirumajaujuq havaaq ikajuutauniaqtuq angijumik kangiqhidjutiptingnik hilap aallanngurninganik akturnniginik iqalukhiuqtulu ikajurninginik. Taimailiurniaqtuq hivitujumik munaridjutinik halumailrunik aulaningit, iqaluit idjuhiit uvvalu havauhiit ilaujut iqajarnikkut najugait idjuhiit. Taimaalu, katitqhugit naunaijautit mikitqiatiqut niqitigut pidjutait uvvalu imarmiuttanik najugait, una havaaq tunngaviqarniaqtuq nunami-pihimajut munaridjutikkut upautiniq pitquhikkut uvvalu maniliurnikkut akhuurnaqtut Ukiuqtaqtumi iqalukhiuqtut huradjat.

## **Personnel**

Personnel on site: 7

Days on site: 21

Total Person days: 147

Operations Phase: from 2025-03-24 to 2035-05-24

## Hulilukaarutit

Inigiya	Hulilukaarut Qanurittuq	Nunannga Qanurittaakhaanik	Initurlinga qanuritpa	Initurlinga utuqqarnitat unaluuniit Ingilraaqnitat Uyarangnuqtut akhuurninnga	Qanitqiayuq qanitqiamut nunallaat kitulluuniit ahiruqtailiyainnit nuna
Jayko (Jayco) River commercial fishery study site	Sampling sites	Inuit Owned Surface Lands	N/A	N/A	Approximately 40 km from the community of Cambridge Bay
Subsistence waters near Cambridge Bay	Sampling sites	Inuit Owned Surface Lands	N/A	N/A	In proximity to the community of Cambridge Bay (0-30 km)
Greiner and Anderson Bay watersheds	Sampling sites	Inuit Owned Surface Lands	N/A	N/A	In proximity to the community of Cambridge Bay (10-40 km)

## Nunaliin Ilauyun, Aviktuqhimayuniitunullu Ikayuuhiarunguyun

Nunauyuq	Atia	Timiuyuq	Upluani Uqaqatigyaungmata
Ikaluktuttiak	Bevery Maksagak (Manager - EHTO)	Ekaluktutiak HTO	2024-08-15
Ikaluktuttiak	Bevery Maksagak (Manager - EHTO)	Ekaluktutiak HTO	2024-10-23
Ikaluktuttiak	Bevery Maksagak (Manager - EHTO)	Ekaluktutiak HTO	2025-01-10
Ikaluktuttiak	Rose Maksagak (Manager - EHTO)	Ekaluktutiak HTO	2025-05-06
Ikaluktuttiak	Rose Maksagak (Manager - EHTO)	Ekaluktutiak HTO	2025-05-21

# Angiuttauvaktunik

**Naunaiqlugu nunanga talvani havauhikhaq ittuq:**

Angiuttauvaktunik

Munariniqmut Ayuittiaqtuq	Angirutinga Qanurittuq	Tadja Qanurittaakhaanik	Ublua Tuniyauyuq/Uuktuqtuq	Umikvikhaa Ublua
Hunters and Trappers Associations/Organizations	The Ekauktukiak Hunters and Trappers Organization supported all our proposed research in Cambridge Bay	Active	2024-12-03	2026-03-31
Hunters and Trappers Associations/Organizations	The Ekauktukiak Hunters and Trappers Organization supported all our proposed contaminants research in Cambridge Bay	Active	2024-12-03	2026-03-31
Iqalukhiurniqmut Tariuqmilu Kaanata	License to fish for scientific purposes issued by DFO	Active	2025-04-30	2026-03-31
Iqalukhiurniqmut Tariuqmilu Kaanata	Animal use protocol license issued by DFO	Active	2025-04-30	2026-03-31
Alaanut	Nunavut Planning Commission decision.	Active	2025-05-05	2035-06-01

## Project transportation types

Transportation Type	Qanuq Atuqtauniarmangaa	Length of Use
Water	We will be travelling via boat to multiple sampling sites in and around Cambridge Bay.	
Land	We will be travelling via ATV to multiple sampling sites in and around Cambridge Bay.	

## Project accomodation types

Permanent Camp

Nunauyuq

# Ihuaqtivaluin Atuqtauyukhan

**Hanalrutit atuqtaunahuat (ukuallu ikuutat, pampiutainnik, tingmitinik, akhaluutinik, hunaluuniit)**

Hanalrutit Qanurittuq	Qaffiuyut	Aktikkulaanga – Qanurittullu	Qanuq Atuqtauniarmangaa
ATV	7	Single rider and 2-ups	Up to 7 used at a time for transportation of personnel, equipment and fish between/within sampling location and hamlet
Snowmachine	4	Single rider and 2-ups	Up to 4 used at a time for transportation of personnel, equipment and fish between/within sampling location and hamlet
Pickup truck	1	4x4	Pickup truck will be rented for transportation of personnel, equipment and fish between sampling locations and hamlet
Boat	1	unknown	Locals will be contracted through the EHTO to use their boats to access receiver locations throughout the marine environments
Trail cameras	Up to 8	14x11.5x6.4cm	Trail cameras will be deployed on wooden tripods, as done in projects in surrounding communities (such as NPC 150208)
VR2-AR acoustic receiver	40	401x81mm	Receivers deployed in freshwater and/or marine environments throughout the study area
VR2-Tx acoustic receiver	6	308x73mm	Receivers deployed in freshwater and/or marine environments throughout the study area
Acoustic tags	60	Varying dimensions V7: 7x23mm V13: 13x39mm V16:16x71mm	Tags will be implanted into the aforementioned fish species (e.g. Arctic char, lake trout, cod, and sculpin), allowing them to be tracked via the acoustic receivers
Aquatic passive contaminants sampler	8	91.4x2.5cm	Aquatic samplers will be attached to a subset of the deployed receiver moorings throughout the freshwater and marine environments

## Qanurittuq Urhuqyuaq unalu Qayangnaqtut Hunavaluit Aturninnga

Qanurittuq urhuqyuaq hunavaluit aturninnga:	Urhuqyuaq Qanurittuq	Qaffiuyut qattaryut	Qattaryuk Aktikkulaanga	Atauttimut Qaffiuyut	Ilanga	Qanuq Atuqtauniarmangaa
Gasoline	fuel	15	20	300	Liters	Jerry cans Storage at

						one time
Gasoline	fuel	1	1000	1000	Liters	Total summer fuel use for fuel for ATVs or snowmachines, rented local boats, and small generators

### Imaqmik Aturninnga

<b>Ubluq qanuraaluk (m3)</b>	<b>Aturumayain imavaluin utiqtittagaani qanuq</b>	<b>Atulirumayain imavaluin utiqtittagani humi</b>
1	Manual transport of water (buckets).	River/lakes and main bay.

## Iqqakuq

### Ikkakunik Munakgiyauyunik

Havauhikhaq Hulilukaarut	Qanurittuq Iqqakut	Ihumagiayuuq Qanuraaluktut Atuqtait	Qanuq Iqqakuurniarlungaa	Halummaqtirarnirutikan piyutin
Other	Qirnarivyaktuq imaq	160L/day	Stored and disposed of in daily municipal waste water system through the Canadian High Arctic Research Station	Municipal treatment
Camp	Anaagun (inuin anaaguin)	4L/day	When out on the land, waste will be buried at least 100m from any water sources or brought back to the community for disposal (in winter)	N/A

### Avatiliriniqmut Ayurhautingit:

The predicted environmental impacts of undertaking our scientific research in Cambridge Bay are all positive. All of our proposed scientific research assists in the management, conservation, and understanding of marine species such as fish and invertebrates.

# **Additional Information**

**SECTION A1: Project Info**

**SECTION A2: Allweather Road**

**SECTION A3: Winter Road**

**SECTION B1: Project Info**

**SECTION B2: Exploration Activity**

**SECTION B3: Geosciences**

**SECTION B4: Drilling**

**SECTION B5: Stripping**

**SECTION B6: Underground Activity**

**SECTION B7: Waste Rock**

**SECTION B8: Stockpiles**

**SECTION B9: Mine Development**

**SECTION B10: Geology**

**SECTION B11: Mine**

**SECTION B12: Mill**

**SECTION C1: Pits**

**SECTION D1: Facility**

**SECTION D2: Facility Construction**

**SECTION D3: Facility Operation**

**SECTION D4: Vessel Use**

**SECTION E1: Offshore Survey**

**SECTION E2: Nearshore Survey**

**SECTION E3: Vessel Use**

## **SECTION F1: Site Cleanup**

## **SECTION G1: Well Authorization**

## **SECTION G2: Onland Exploration**

## **SECTION G3: Offshore Exploration**

## **SECTION G4: Rig**

## **SECTION H1: Vessel Use**

## **SECTION H2: Disposal At Sea**

## **SECTION I1: Municipal Development**

### **Qanurittuq Ittunik Avatinga: Avatingalluanga**

In both Cambridge Bay, there are trails from the community to our locations of sampling. These trails are maintained by the local municipalities for use to access subsistence harvesting locations near the communities.

### **Qanurittuq Ittunik Avatinga: Inuuhimayunut Avatinga**

Typical Arctic species (caribou, seals, muskox, fish, birds, small mammals, medium mammals, mosses, lichens, flowers) can be found in proximity to all of our sampling sites.

### **Qanurittuq Ittunik Avatinga: Inungit-maniliurutingit Avatinga**

Our locations of sampling in each community are areas of local importance for subsistence and economic harvesting of fish species (majority being for Arctic char). These locations have been selected by the HTO and community members to learn more about the wildlife species they harvest and consume through the examination of movement patterns, diet, and contaminant loads. Our research project will hire up to seven local individuals from the respective communities to assist with all field-related work.

## **Miscellaneous Project Information**

Our scientific research is developed and guided alongside co-management partners (HTO/HTA/RWOs). We DO NOT conduct any research that these bodies have not been in support of, nor at locations that they have not been supportive of. We are in constant communication with the respective local bodies throughout the year, providing dates research will occur, research plans (that have already been approved), providing updates on work completed to date and results when available in the form of plain language summaries and reports shared to local HTO/HTA/RWOs and the communities as a whole. Letters of support have been provided by the EHTO.

### **Naunaiyainiq ukuninnga Ayurhautingit unalu Piumayaat Ikikliyuumiutinahuarutit**

There are no foreseeable impacts of this research that are negative - all impacts of our scientific research are positive as they assist in the conservation, management, and understanding of marine species such as fish and invertebrates. There will be no (or minimal) land or water disturbance.

### **Tamatkiumayunik Ihuikgutivaktunik**

There are no foreseeable cumulative effects of this research that are negative - all effects of our scientific

research are positive as they assist in the conservation, management, and understanding of marine species such as fish and invertebrates. There will be no (or minimal) land or water disturbance.

# Impacts

## Ilitariyauniq Avatiliriniqmut Ayurhautingit

PHYSICAL																		
Designated environmental areas																		
Ground stability	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Permafrost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hydrology / Limnology	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Water quality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Climate conditions	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Eskers and other unique or fragile landscapes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Surface and bedrock geology	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sediment and soil quality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tidal processes and bathymetry	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Air quality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Noise levels	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BIOLOGICAL																		
Vegetation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wildlife, including habitat and migration patterns	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Birds, including habitat and migration patterns	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aquatic species, incl. habitat and migration/spawning	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wildlife protected areas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SOCIO-ECONOMIC																		
Archaeological and cultural historic sites	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Employment	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Community wellness	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Community infrastructure	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Human health	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

(P = Nakuuyuq, N = Nakuungittut unalu mikhilimaittuq, M = Nakuungittut unalu mikhittaaqtuq, U = Naluyaayuq)