



NIRB Uuktuutinga Ihivriuqhikhamut #126164

Movement and chemical ecology of fishes in Hudson Bay

Uuktuutinga Qanurittuq: New

Havaap Qanurittunia: Scientific Research

Uuktuutinga Ublua: Saturday, April 12, 2025

Period of operation: from 2025-05-26 to 2035-03-22

Havauhikhaq Ikayuqtinga: Connor Faulkner
Fisheries and Oceans Canada
501 University Crescent
Winnipeg MB R3T 2N6
Canada
Hivayautit Nampanga:: 2049148147, Kayumiktukkut Nampanga::

Hulilukaarutit

Inigiya	Hulilukaarut Qanurittuq	Nunannga Qanurittaakhaanik	Initurlinga qanuritpa	Initurlinga utuqqarnitat unaluuniit Ingilraaqnitat Uyarannuqtut akhuurninnga	Qanitqiyauyuq qanitqiamut nunallaat kitulluuniit ahiruqtaiiyainnit nuna
Location where sampling with occur in the large lake in the Sanikiluaq area.	Sampling sites	Marine	N/A.	N/A.	Approximately 20 km from the community of Sanikiluaq.
Location where sampling with occur in the southern extent of the Sanikiluaq area.	Sampling sites	Marine	N/A.	N/A.	Approximately 90 km from the community of Sanikiluaq.
Location where sampling with occur in the northern extent of the Sanikiluaq area.	Sampling sites	Marine	N/A.	N/A.	Approximately 40 km from the community of Sanikiluaq.
Location where sampling with occur in the northern extent of the Belcher Islands.	Sampling sites	Marine	N/A.	N/A.	Approximately 10 km from the community of Sanikiluaq.
Location where sampling with occur in the Rankin Inlet area.	Sampling sites	Marine	N/A.	N/A.	Furthest point approximately 67 km from the community of Rankin Inlet.

Nunaliin Ilauyun, Aviktuqhimayuniitunullu Ikayuuhiarunguyun

Nunauyuq	Atia	Timiuyuq	Upluani Uqaqatigiyaungmata
Kangirliniq	Andre Aokaot	Kangiqliniq Hunters and Trappers Organization	2025-01-23

Kangirliniq	Kivalliq Wildlife Board	Stanley Adjuk/Amy Kaludjak	2024-11-16
Sanikiluaq	Luccasie Arragutainaq	Sanikiluaq Hunters and Trappers Association	2024-11-26

Angiuttauvaktunik

Naunaiqlugu nunanga talvani havauhikhaq ittuq:

Angiuttauvaktunik

Munariniqmut Ayuittiaqtuq	Angirutinga Qanurittuq	Tadja Qanurittaakhaanik	Ublua Tuniyauyuq/Uuktuqtuq	Umikvikhaa Ublua
Hunters and Trappers Associations/Organizations	The Kangiqliniq Hunters and Trappers Organization supported our proposed research in Rankin Inlet.	Active	2025-01-23	2026-04-01
Hunters and Trappers Associations/Organizations	The Kivalliq Wildlife Board supported our proposed research in Rankin Inlet.	Active	2024-11-16	2026-04-01
Hunters and Trappers Associations/Organizations	The Sanikiluaq Hunters and Trappers Association supported our proposed research in Sanikiluaq.	Active	2024-11-26	2026-04-01
Iqalukhiurniqmut Tariuqmilu Kaanata	Applied to the DFO Arctic animal care committee for an approved animal use protocol for all sampling and work that will be conducted within our research project. Committee has reviewed our application and will provide a decision in April 2025.	Applied, Decision Pending	2025-02-18	2026-04-01
Iqalukhiurniqmut Tariuqmilu Kaanata	Applied to the DFO Arctic licensing group for an approved license to fish for scientific purposes for all sampling	Applied, Decision Pending	2025-02-18	2026-04-01

	and work that will be conducted within our research project. Committee has reviewed our application and will provide a decision upon approval of our projects by the NPC and NIRB.			
Alaanut	Nunavut Planning Commission screening decision.	Active	2025-04-05	2035-04-01

Project transportation types

Transportation Type	Qanuq Atuqtauniarmangaa	Length of Use
Water	We will be travelling via boat to multiple sampling sites within Rankin Inlet and around the Belcher Islands (Sanikiluaq).	
Land	We will be travelling via ATV to multiple sampling sites within Rankin Inlet and around the Belcher Islands (Sanikiluaq).	

Project accomodation types

Nunauyuq

Ihuaqutivaluin Atuqtauyukhan

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

Hanalrutit Qanurittuq	Qaffiuyut	Aktikkulaanga – Qanurittullu	Qanuq Atuqtauniarmangaa
ATV	4	83 in. (L) x 48 in. (H) x 47 in. (W)	ATV's will be used to transport the research team from town to the location of field work within Rankin Inlet and/or Sanikiluaq.
Boat and motor	1	22 feet (L) x 10 feet (W)	Boat and motor will be used to transport the research team from town to the location of field work within Rankin Inlet and/or Sanikiluaq.

Qanurittuq Urhuqyuaq unalu Qayangnaqtut Hunavaluit Aturningga

Qanurittuq urhuqyuaq hunavaluit aturningga:	Urhuqyuaq Qanurittuq	Qaffiuyut qattaryut	Qattaryuk Aktikkulaanga	Atauttimut Qaffiuyut	Ilanga	Qanuq Atuqtauniarmangaa
Gasoline	fuel	10	5	50	Gallons	Gasoline will be carried on the boat while completing field work within Rankin Inlet and/or Sanikiluaq as backup fuel reserves due to long distances travelled between field work study sites.
Ethanol	hazardous	1	1	1	Liters	Ethanol vials will be carried to store and preserve fish fin clips for genetic analysis.

Imaqmik Aturningga

Ubluq qanuraaluk (m3)	Aturumayain imavaluin utiqittagaani qanuq	Atulirumayain imavaluin utiqittagani humi
0		

Iqqakuq

Ikkakunik Munakgiyauyunik

Havauhikhaq Huilukaarut	Qanurittuq Iqqakut	Ihumagiyauyuq Qanuraaluktut Atuqtait	Qanuq Iqqakuurniarmangaa	Halummaqtirarnirutikhan piyutin
Sampling sites	Ikulalimanngittun iqqakuuvaluin	10 lb	Food/beverage and miscellaneous waste generated throughout the duration of our field work will be brought back to town and disposed of in municipal landfills.	N/A.

Avatiliriniqmut Ayurhauingit:

The predicted environmental impacts of undertaking our scientific research in either Rankin Inlet or Sanikiluaq 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 Rankin Inlet and Sanikiluaq, there are trails from the community to our locations of sampling in each respective community. 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, polar bears, seals, whales, fish, birds, small mammals, medium mammals, mosses, lichens, flowers) can be found in proximity to all of our sampling sites in Rankin Inlet and Sanikiluaq.

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 respective community HTO/HTA's to learn more about the wildlife species they harvest and consume through the examination of movement patterns, diet, and contaminant loads. Given unemployment rates in both Rankin Inlet and Sanikiluaq are moderate, our research project will hire up to three 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.

Naunaiyainiq ukuningga Ayurhautingit unalu Piumayaat Ikiykiuumiutinahuarutit

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.

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.

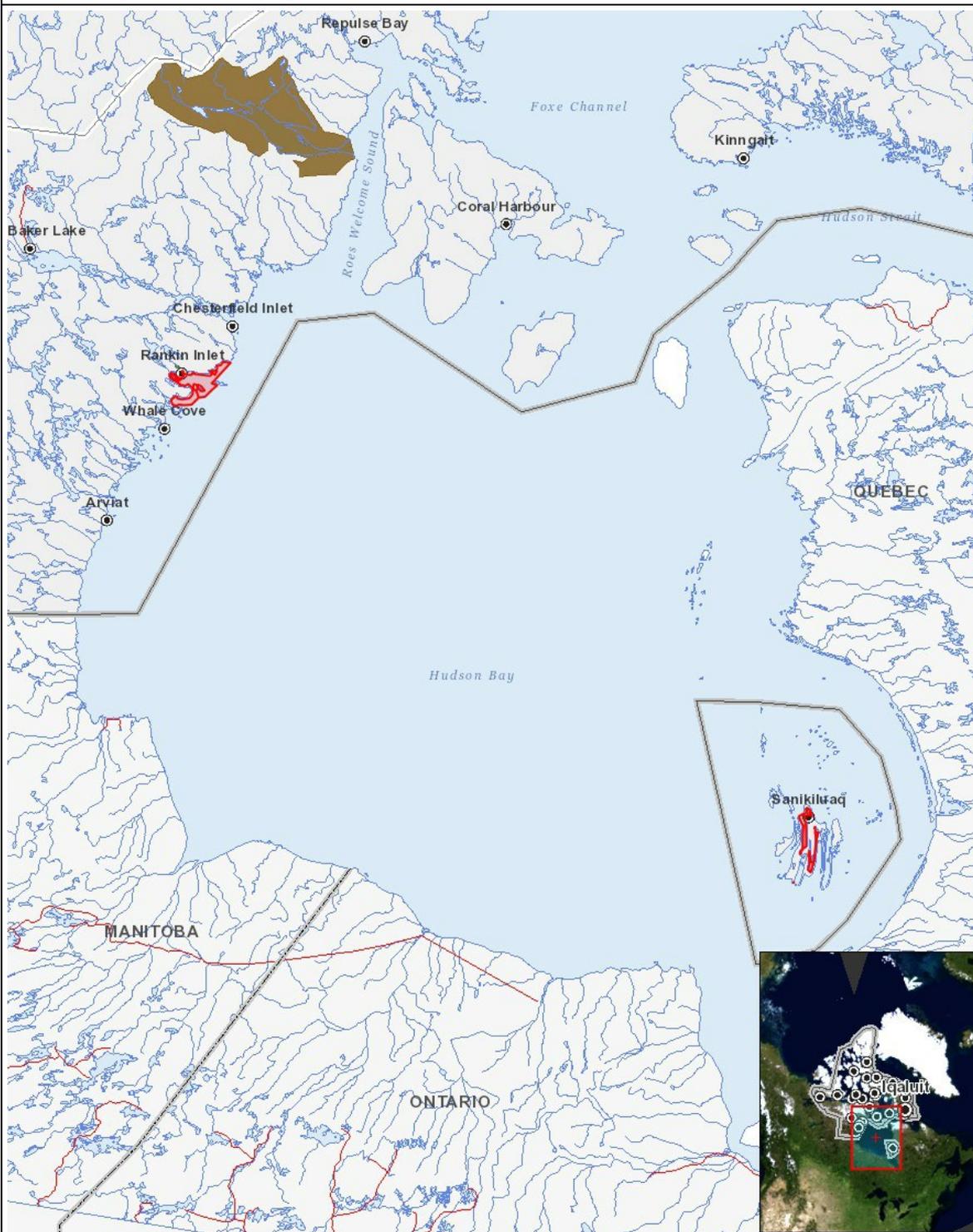
Impacts

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
Havakvinga																									
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Aulapkaininnga																									
Sampling sites	P	U	U	-	P	P	U	U	U	P	U	P		U	P	U	P	P		U	P	P	U	P	
Piiqtauniq																									
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

Havaariyauyukhamut Nayugaa



List of Project Geometries

- 1 polygon Location where sampling with occur in the large lake in the Sanikiluaq area.
- 2 polygon Location where sampling with occur in the southern extent of the Sanikiluaq area.
- 3 polygon Location where sampling with occur in the northern extent of the Sanikiluaq area.
- 4 polygon Location where sampling with occur in the northern extent of the Belcher Islands.
- 5 polygon Location where sampling with occur in the Rankin Inlet area.