NIRB Application for Screening #126451

Tallurutiup Imanga NMCA Research and Monitoring Pilot Project

Application Type: New

Project Type: Scientific Research

Application Date: Friday, May 15, 2026

Period of operation: from 2026-08-15 to 2026-08-30

Project Proponent: Vincent Marmillot

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DETAILS

Non-technical project proposal description

English: This pilot project aims at helping to implement the long term monitoring programs for TINMCA by testing some equipment and taking preliminary measurements. In 2026, fieldwork activities are proposed to take place around Bylot Island, Eclipse Sound, Navy Board Inlet and Milne Inlet. We will travel to the sampling stations by boat from Pond Inlet in the morning and return at the end of each day. At each station, we will deploy sensors to measure seawater properties, including temperature, salinity, pressure, acidity, turbidity (how transparent the water is), and chlorophyll-a (part of plankton, to understand plankton productivity), dissolved oxygen, at multiple depths (surface, 10, 20, 30, 40, 50, and 100 meters). These measurements will be repeated several times at each location.No moorings are planned for this year, and all equipment will be retrieved immediately after measurements are completed.A drone may be used to monitor sea-ice conditions, the presence and abundance of marine mammals, and the seabird colony.

French: Ce projet pilote vise à appuyer la mise en œuvre des programmes de suivi à long terme de TINMCA en testant certains équipements et en réalisant des mesures préliminaires. En 2026, les activités de terrain sont prévues autour de l'île Bylot, et plus précisément dans Eclipse Sound, Navy Board Inlet et Milne Inlet.Nous nous rendrons aux stations d'échantillonnage en bateau depuis Pond Inlet le matin, puis reviendrons en fin de journée. À chaque station, des capteurs seront déployer afin de mesurer les propriétés de l'eau de mer, notamment la température, la salinité, la pression, l'acidité, la turbidité (la transparence de l'eau), la chlorophylle-a (composante du plancton permettant de comprendre sa productivité) ainsi que l'oxygène dissous, à différentes profondeurs (surface, 10, 20, 30, 40, 50 et 100 mètres).Ces mesures seront répétées plusieurs fois à chaque emplacement. Aucun mouillage n'est prévu cette année, et tout l'équipement sera récupéré immédiatement après la prise de mesures. Un drone pourra être utilisé pour surveiller les conditions de glace de mer, la présence et l'abondance des mammifères marins, ainsi que les colonies d'oiseaux marins.

Inuktitut: ᑭᓵᓐ ᐱᓕᕆᐊᖓᓯᐊᓐᓂᖏᓐᑐᖅ ᐱᓕᕆᐊᖅ ᑐᑦᓯᓂᖅᖃᖅᑐᖅ ᐃᑲᔪᖅᓗᓂ ᐊᑐᓕᖅᑎᑕᐅᓂᖏᓐᓄᓗᒃ ᐊᑯᓂᐅᔪᒧᑦ ᖃᐅᔨᓴᖅᑕᓂᕐᓗᑦ ᐱᓕᕆᐊᑦ ᐅᒧᖏᓐ TINMCA ᖃᐅᔨᓴᖅᓗᓂ ᐃᓕᓴᐅᓂ ᓯᓚᑲᑯᓂ ᐊᓪᒪᒃ ᐅᑦᑐᖅᓯᓯᐅᓴᖅᑐᑦ. 2026–ᒥᑦ, ᖃᐅᔨᓴᖅᓄᐅᔪᒥᑦ ᐃᖅᑲᐃᐧᐋᐅᐊᖅᑐᑦ ᑐᓴᓯᖏᓐᓄᑦ ᖃᓄᐅᔾᔨᓐᓂ ᐊᑭᐊ, ᖃᐅᔨᖅᓚᖅ, ᓚᓪᓗᐊᑕ ᑕᕆᐅᖏᓐᓂ, ᐊᓪᒪᒃ ᐊᑭᐊ. ᐊᐅᓪᓕᓂᐊᖅᑐᒍᑦ ᖃᐅᔨᓴᓂᖅᒧᑦ ᖃᐅᔨᓴᖅᓄᓄᓂ ᐅᒥᐊᖅᑯᑦ ᒥᑎᒪᑕᓕᒪᒥ ᐅᓪᓕᓐᑲᑯᑦ ᐊᓪᒪᒃ ᐅᑎᖅᓗᑕ ᐅᓪᓗᓵᓕ ᐃᓯᐊᓂ ᖃᐅᑕᒫᑦ. ᐊᑐᑐᒍᓂ, ᐋᖃᓯᐅᑎᓪᓗᑎ ᐅᓇᖅᓂᖏᓐᓂ, ᑕᕆᐅᖃᖅᓂᖏᓐᓂ, ᓴᓐᖏᓂᖏᓐᓂ, ᐋᓯᒪᖃᖅᓂᖏᓐᓂ, ᐃᓯᖅᓂᖏᓐᓂ (ᖃᓄᐅᑎᒥᒪ ᑕᑯᐊᓴᕐᐅᓂᖏᓐᓄᓗᒃ ᐃᒪᓐᓂᒃ), ᐊᒪᒪ chlorophyll-a (ᐃᓕᒥᔾᓐᓂ ᒥᑭᔨᑎᕆᓪᓕᒪᒃ ᐅᒪᔨᐃᑦ, ᑐᑭᓯᓗᒍ ᒥᑭᔨᑎᕆᓪᓕᓂᒃ ᐅᒪᔨᓕᐅᖅᓂᖏᓐᓂ), ᓄᖓᑎᖃᓯᒪᔨᑦ ᐊᓂᖅᓂᖃᖅᓇᐅᑎᒃ, ᐊᒥᓯᓂᒃ ᐃᑎᓂᖏᓐᓂᓂ (ᖃᓐᓂᓂ, 10, 20, 30, 40, 50, ᐊᒪᒪ 100 ᒥᑕᐃᑦ). ᑭᑲᑯᐊ ᖃᐅᔨᓴᖅᓂᐅᔪᑦ ᐊᑐᖅᑕᐅᑲᓂᖃᖅᑎᑦᑕᓂᐊᖅᑐᑦ ᐊᒥᓯᐊᖅᑎᑎᓕᓗᑎ ᐊᑐᓂ ᓇᒧᓂᖏᓐᓂ.ᑭᓴᓯᒪᑎᑦᑎᓂᓂᖅᖢᑦ ᐸᖅᓇᓯᒪᖏᓐᑕᒃ ᑕᒪᑐᒪᓂ ᐊᖅᑭᔪᒥ, ᐊᒪᒪ ᓯᓚᑲᑯᑦᑕᓕᒧᑦ ᐱᓕᐅᑲᖃᓂᓂᐊᖅᑐᑦ ᖃᐅᔨᓴᖅᓂᖃᓴᓇᖅᑎᓪᓗᑎᑦ ᐊᑐᓂᖅᑕᐅᔪᓚᖅᑐᑦ ᖃᐅᔨᓴᖅᓂᑐᒍ ᓯᑲᖏᓐᓇ ᖃᓄᐅᓵᓂᖏᓐᓂᓄᑦ, ᐱᑕᖃᖅᓂᖏᓐᓄᑦ ᐊᒪᒪ ᐊᒥᓯᓂᖏᓐᓄᑦ ᐃᒪᖅᒥᐅᑕᐃᑦ ᐅᒪᔨᐃᑦ, ᐊᒪᒪ ᐃᒪᖅᒥᐅᑕᐃᑦ ᑎᒥᑕᐃᑦ.

Personnel

Personnel on site: 8

Days on site: 15

Total Person days: 120

Operations Phase: from 2026-08-15 to 2026-08-30

Activities

Location	Activity Type	Land Status	Site history	Site archaeological or paleontological value	Proximity to the nearest communities and any protected areas
PP2026TINMCA	Scientific/International Polar Year Research	Marine	NA	NA	Activities will take place within Tallurutiup Imanga National Marine Conservation Area, more specifically in Eclipse Sound, Navy Board Inlet, Milne Inlet and in the vicinity of Pond Inlet. Exact locations of stations to be discussed with the HTO. There is no plan to conduct activities within Sirmilik National Park for this project.

Community Involvement & Regional Benefits

Community	Name	Organization	Date Contacted
Pond Inlet	Evan Kyak	Mittimatalik Hunters and Trappers Organization	2026-04-24

Authorizations

Indicate the areas in which the project is located:

North Baffin

Authorizations

Regulatory Authority	Authorization Description	Current Status	Date Issued / Applied	Expiry Date
Nunavut Research Institute	NA	Applied, Decision Pending		
Canadian Wildlife Service	NA	Applied, Decision Pending		
Nunavut Planning Commission	The project 151106 conforms to the North Baffin Regional Land Use Plan	Active	2026-05-13	

Project transportation types

Transportation Type	Proposed Use	Length of Use
Water	Small boat (7m) with four stroke engine	

Project accomodation types

Community

Material Use

Equipment to be used (including drills, pumps, aircraft, vehicles, etc)

Equipment Type	Quantity	Size - Dimensions	Proposed Use
Small boat	1	7m	transport to sampling stations
CTD + loggers	1	1m	Measure the seawater properties (conductivity, temperature, Depth, Fluroscense, dissolved oxygen, turbidity, Carbon dioxyde)
Drone	1	0.5	Sea Ice and seabirds survey

Detail Fuel and Hazardous Material Use

Detail fuel material use:	Fuel Type	Number of containers	Container Capacity	Total Amount	Units	Proposed Use
Gasoline	fuel	10	25	250	Liters	Four stroke engine of the boat

Water Consumption

Daily amount (m3)	Proposed water retrieval methods	Proposed water retrieval location
0		

Waste

Waste Management

Project Activity	Type of Waste	Projected Amount Generated	Method of Disposal	Additional treatment procedures
Other	Other, Garbage and human waste	5L	Will be brought back to Pond Inlet for disposal at municipal waste facility	NA

Environmental Impacts:

Potential adverse effect and mitigation measures: - Marine mammals and birds from noise and proximity: Standard mitigations about minimum distances from wildlife will be followed, including those developed by DFO and the Canadian Wildlife Service. Mitigations specific to drone use will also be followed and only a trained pilot will operate the drone. - Fuel spills: Mitigations will be followed on how to safely fuel the boat and how to address potential spills. - Disturbance of Inuit engaging in harvesting or cultural activities: Consultations will take place with the HTO of Pond Inlet to ensure the proposed timing and location of the project does not affect community members' harvesting and cultural activities and to modify proposed plans accordingly. - Disturbance of seafloor from temporary anchoring: Mitigations will be researched and implemented as needed.

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

Description of Existing Environment: Physical Environment

Marine environment surrounded by mountains and glaciers.

Description of Existing Environment: Biological Environment

This area provides important habitat for marine species. Its waters are a migratory corridor for numerous species and essential habitat for polar bears, seals, walrus, bowhead whales, narwhal, beluga whales, and migratory birds.

Description of Existing Environment: Socio-economic Environment

Eclipse Sound and Navy Board Inlet are used by Inuit for harvesting and other cultural activities.

Miscellaneous Project Information

Identification of Impacts and Proposed Mitigation Measures

Marine mammals and birds from noise and proximity: Standard mitigations about minimum distances from wildlife will be followed, including those developed by DFO and the Canadian Wildlife Service. Mitigations specific to drone use will also be followed and only a trained pilot will operate the drone. Fuel spills: Mitigations will be followed on how to safely fuel the boat and how to address potential spills. Disturbance of Inuit engaging in harvesting or cultural activities: Consultations will take place with the HTO of Pond Inlet to ensure the proposed timing and location of the project does not affect community members' harvesting and cultural activities and to modify proposed plans accordingly. Disturbance of seafloor from temporary anchoring: Mitigations will be researched and implemented as needed.

Cumulative Effects

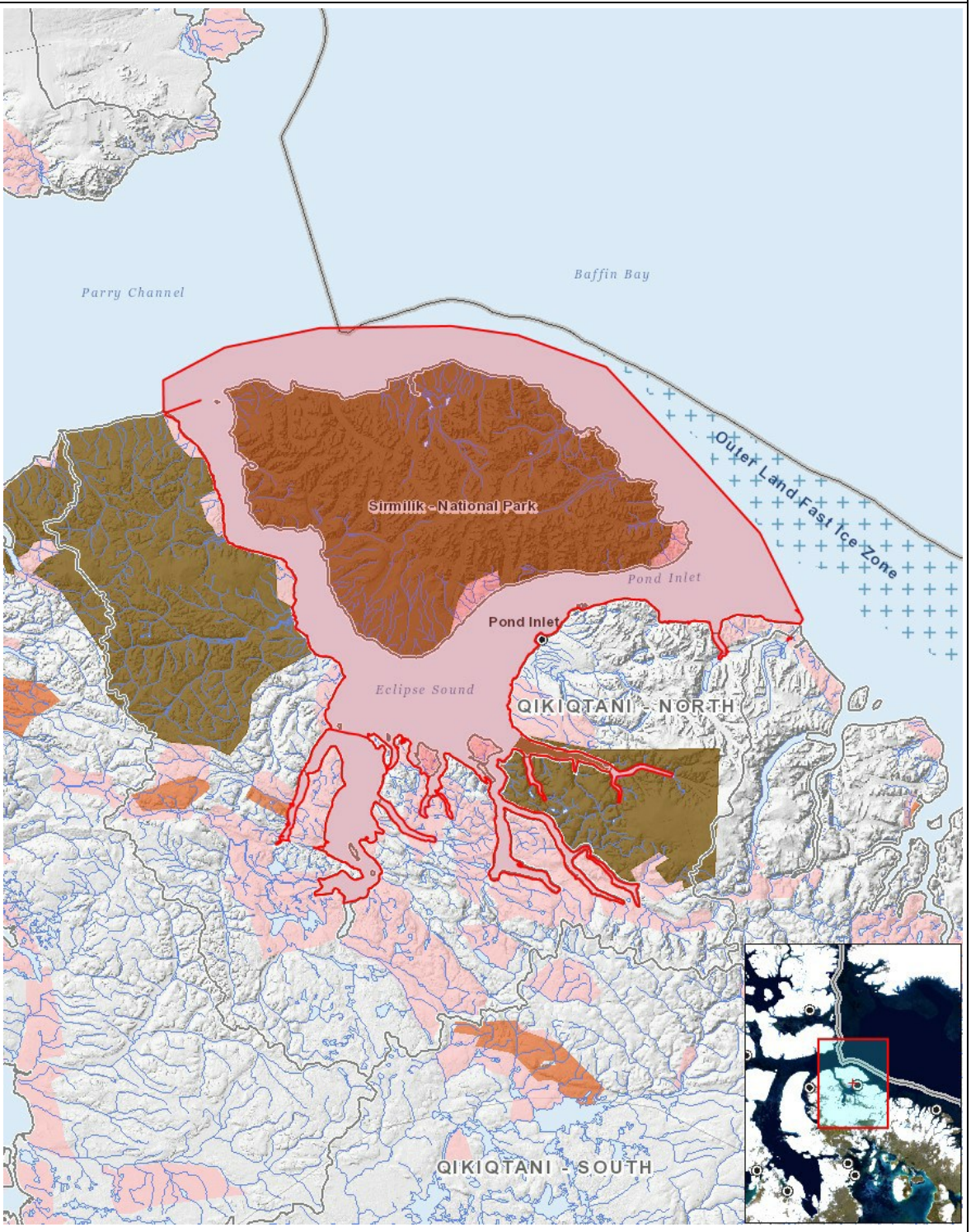
The team is planning to travel through the area by boat with a group of a maximum of 8 people (likely only 3) for a maximum of 8 hours per day. This will add some traffic to the area but the impact should be negligible given mitigations proposed.

Impacts

Identification of Environmental Impacts

	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
Construction																									
-			-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
Operation																									
Scientific/International Polar Year Research			M	-	-	-	M	-	-	-	-	-	-	N		-	M	M	M	M		-	-	-	-	-
Decommissioning																									
-			-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-		-	-	-	-	-

(P = Positive, N = Negative and non-mitigatable, M = Negative and mitigatable, U = Unknown)

Project Location

List of Project Geometries
1 polygon PP2026TINMCA