



## **NIRB Uuktuutinga Ihivriuqhikhamut #126449**

### **Leaf photosynthesis of shrub species - Response to air temperature and climatic feedback**

**Uuktuutinga Qanurittuq:** New

**Havaap Qanurittunia:** Scientific Research

**Uuktuutinga Ublua:** Thursday, May 7, 2026

**Period of operation:** from 2026-07-13 to 2026-07-24

**Havauhikhaq Ikayuqtinga:** Maire Vincent  
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Hivayautit Nampanga:: 8196994514, Kayumiktukkut Nampanga::





## Hulilukaarutit

Inigiya	Hulilukaarut Qanurittuq	Nunangga Qanurittaakhaanik	Initurlinga qanuritpa	Initurlinga utuqqarnitat unaluuniit Ingilraaqnitat Uyarannuqtut akhuurninnga	Qanitqiyauyuq qanitqiamut nunallaat kitulluuniit ahiruqtaiiyainnit nuna
Area where three plant sampling sites will be chosen	Sampling sites	Inuit Owned Surface Lands	Sylvia Grinnell National Park	The park also has archaeological sites but we will not visit them. Our plan is to sample 48 shrub individuals (four species) and to measure leaf photosynthesis back to the laboratory in Iqaluit. See attached document for details.	The nearest communities are the ones in Iqaluit.

### Nunaliin Ilauyun, Aviktuqhimayuniitunullu Ikayuuhiarunguyun

Nunauyuq	Atia	Timiuyuq	Upluani Uqaqatigiyaungmata
Iqaluit	Jamal Shirley	Arctic College	2026-01-10

# Angiuttauvaktunik

Naunaiqlugu nunanga talvani havauhikhaq ittuq:

South Baffin

## Angiuttauvaktunik

Munariniqmut Ayuittiaqtuq	Angirutinga Qanurittuq	Tadja Qanurittaakhaanik	Ublua Tuniyauyuq/Uuktuqtuq	Umikvikhaa Ublua
Nunavut Kavamanga, Avatiliriyikkut	Department of Environment – Wildlife Management Division, Nunavut Territory. NUNAVUT WILDLIFE RESEARCH PERMIT - Expected decision date : June 5th	Applied, Decision Pending		
Nunavut Kavamanga, Avatiliriyikkut	NUNAVUT TERRITORIAL PARKS USE PERMIT - Application date : March 25th	Applied, Decision Pending		

## Project transportation types

Transportation Type	Qanuq Atuqtauniarmangaa	Length of Use
Land	Car or ATV + walk	

## Project accomodation types

Nunauyuq

# Ihuaqutivaluin Atuqtauyukhan

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

Hanalrutit Qanurittuq	Qaffiuyut	Aktikkulaanga – Qanurittullu	Qanuq Atuqtauniarmangaa
VTT	1	86*48 in	The vehicle may be use to go on-site

## Qanurittuq Urhuqyuaq unalu Qayangnaqtut Hunavaluit Aturninga

Qanurittuq urhuqyuaq hunavaluit aturninga:	Urhuqyuaq Qanurittuq	Qaffiuyut qattaryut	Qattaryuk Aktikkulaanga	Atauttimut Qaffiuyut	Ilanga	Qanuq Atuqtauniarmangaa
Information is not available						

## Imaqmik Aturninga

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

# Iqqakuq

## Ikkakunik Munakgiyauyunik

Havauhikhaq Hulilukaarut	Qanurittuq Iqqakut	Ihumagiyauyuq Qanuraaluktut Atuqtait	Qanuq Iqqakuurniarmangaa	Halummaqtirarnirutikhan piyutin
Sampling sites	Other, plants	100 grams	Compost if available, otherwise regular trash	Not required

### Avatiliriniqmut Ayurhauingit:

The project is designed to have minimal environmental impact. Vegetation sampling is non-destructive and limited in scope. Soil sampling is small in scale and all sites are restored immediately after sampling. Temporary sensors will be removed after use, and no permanent infrastructure will be installed.

# **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**

Three study sites will be selected within Sylvia Grinnell Territorial Park to represent environmental variability across the landscape. At three sites, two contrasting soil fertility conditions will be identified: •Mineral soils associated with silty deposits, generally well-drained and relatively low in organic matter; •Organic soils characterized by high water saturation and accumulation of organic matter. Soil sampling will be conducted to characterize edaphic conditions. Three soil cores per fertility condition will be collected (10 cm depth, 6 cm diameter). This represents a small and localized disturbance. All sampling locations will be restored immediately after collection by refilling holes with surrounding substrate, thereby maintaining surface integrity.

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

Four shrub species will be targeted: *Salix arctica* (prostrated shrub), *Salix reticulata* (prostrated shrub), *Salix richardsonii* (erect shrub), *Betula glandulosa* (erect shrub). These species does not belong to endangered species list.

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

We will propose to arctic college to hire one person of the community to show us the sampling sites and explain the environment.

## **Miscellaneous Project Information**

### **Naunaiyainiq ukuninga Ayurhautingit unalu Piumayaat Ikiykiuumiutinahuarutit**

The project is designed to have minimal environmental impact. Vegetation sampling is non-destructive and limited in scope. Soil sampling is small in scale and all sites are restored immediately after sampling. Temporary sensors will be removed after use, and no permanent infrastructure will be installed. Access to the park will be conducted by ATV, while all activities within study sites will be performed on foot to minimize disturbance. No hazardous substances will be introduced into the environment.

## **Tamatkiumayunik Ihuikgutivaktunik**

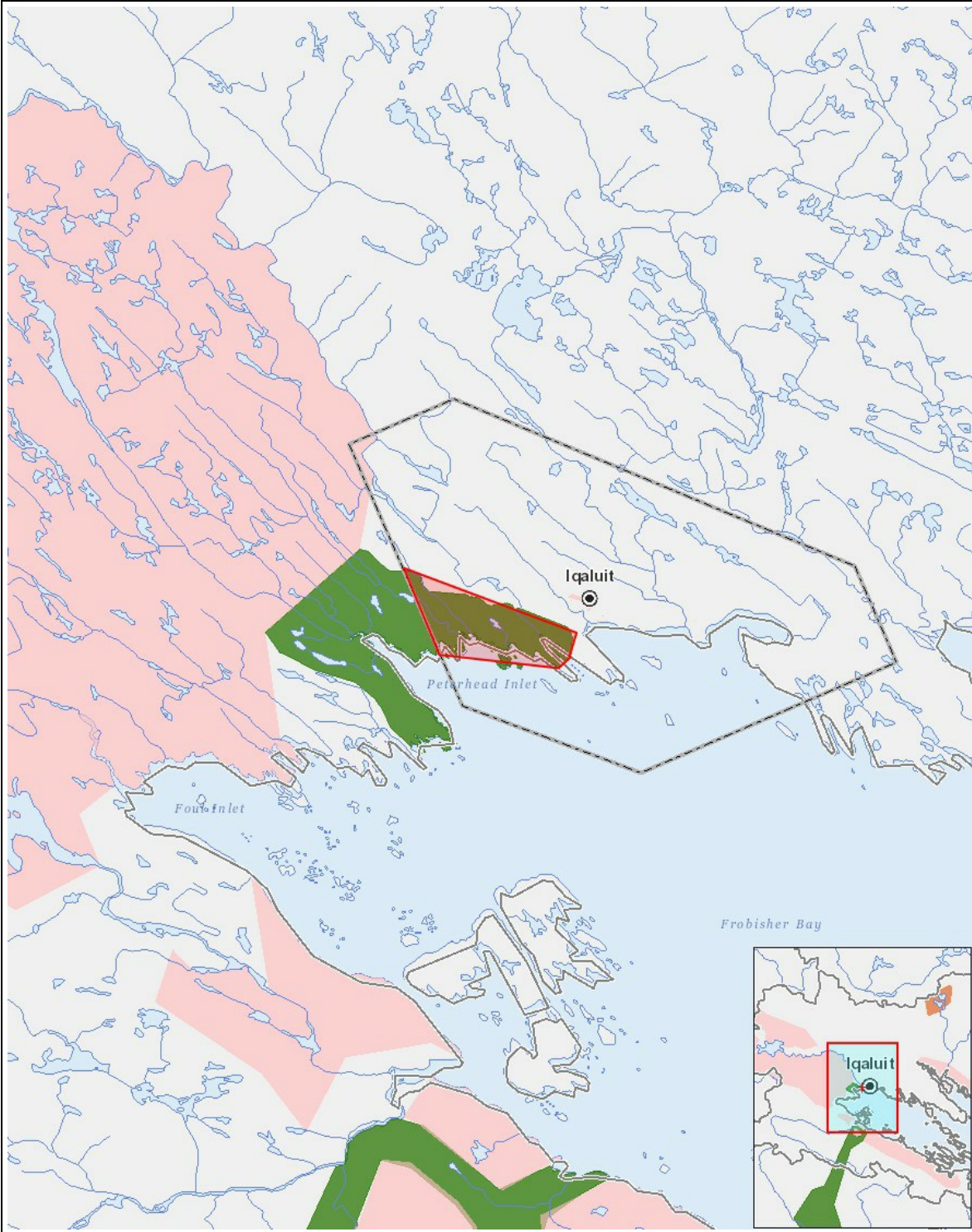
# Impacts

## Ilitariyauniq Avatiliriniqmut Ayurhauingit

	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
<b>Havakvinga</b>																									
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<b>Aulapkaininnga</b>																									
Sampling sites	-	-	-	-	-	-	-	-	M	-	-	-	-	M	-	-	-	-	-	-	-	-	-	-	-
<b>Piiqtauniq</b>																									
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

# Havaariyauyukhamut Nayugaa



## List of Project Geometries

- 1 polygon Area where three plant sampling sites will be chosen