



**ᓄᓇᓂᓪᓴ ᐃᓕᓂᓕᓴᓂᓄᓪᓴ ᓅᓂᓴᓴᓂᓄᓪᓴ ᐃᓕᓂᓕᓴᓂᓄᓪᓴ #125937**

**Bedrock Mapping at Uvauk Bay**

**ᐃᓕᓂᓕᓴᓂᓄᓪᓴ** New  
**ᓄᓇᓂᓪᓴᓂᓄᓪᓴ:**  
**ᐃᓕᓂᓕᓴᓂᓄᓪᓴ** Scientific Research  
**ᐃᓕᓂᓕᓴᓂᓄᓪᓴ**  
**ᐃᓕᓂᓕᓴᓂᓄᓪᓴ:** 4/11/2024 11:21:37 AM  
**Period of operation:** from to  
**ᓄᓇᓂᓪᓴᓂᓄᓪᓴᓂᓄᓪᓴ:** from to  
**ᐃᓕᓂᓕᓴᓂᓄᓪᓴ:** Joshua Laughton  
Geological Survey of Canada  
601 Booth Street  
Ottawa Ontario K1A0E8  
Canada  
ᐃᓕᓂᓕᓴᓂᓄᓪᓴ: 5195204931, ᐃᓕᓂᓕᓴᓂᓄᓪᓴ: 5195204931

ፍጹሙ ስለሆነ ለጥራት ምርመራ ማድረግ ይቻላል።

ᖃᓕᓗᓴᓂᓂᓐ: This project will focus on bedrock mapping near Uvuak Bay along Chesterfield Inlet, in the eastern area of the Kivalliq region. According to western science, this area, which has only been briefly studied in the past, could provide critical information involving the initial assembly of North American continents. We aim for this project to take place between August 1st to 14th. This project is in collaboration with the Geological Survey of Canada and Canadian universities. A team of up to four geologists will focus their efforts on bedrock mapping and collecting small rock samples for laboratory analysis. A campsite will be set up on the shore near Uvuak Bay. We will be hiring a local Nunavut resident as a wildlife monitor during the project and will be hiring a local resident of Baker Lake to boat us to and from the campsite at the start and end of the project. The campsite will include up to seven tents for kitchen, bathroom and sleeping use. Water for the camp will be collected from a nearby stream/river and a small generator will be used for power. Field methods will include daily hiking excursions and possible use of the small local boat along the coast. Geologists will hike across the land and collect field observations in the form of notes, photographs, and rock samples by hammer. All camp waste will be incinerated and/or stored in bear safe containers for removal and disposal upon project completion. Team members will give a wide berth of at least 100 m to large mammals and we will have safety protocols in place for predatory wildlife. The data will be stored in the Geological Survey of Canada's database. The data generated will be used for a graduate student thesis, published in scientific articles and presented at geologic conferences. Any possible archeological findings will be photographed and coordinates noted; this data will be sent to the Inuit Heritage Trust for their management. We travelled to Rankin Inlet and Baker Lake in February 2024 to present this proposed project to the communities and we plan on travelling to these communities next year to present the results of our proposed project.

▷ ΔΑΝΩΣ: N/A

[illegible]

Inuinnaqtun: N/A

**Personnel**

Personnel on site: 6

Days on site: 14

Total Person days: 84

Operations Phase: from 2024-08-01 to 2024-08-14

Λ Γ Δ Ε Ζ Η Θ Ι Κ Λ Μ Ν Ξ Ο Π Ρ Σ Τ Υ Φ Χ Ψ Ω

ᐁᑦ	ᖃᓄᐱᕐᑐᒥᕐ ᐱᑦᑲᐳᕐᓂᐱᕐᓂᐱᕐᓂᐱᕐ	ᑭᐅᕐᓂᐱᕐ ᓄᐁᕐᓂᐱᕐ	ᑐᔨᐱᕈᕆᕐᓂ ᓄᐁᕐᓂ ᖃᓄᖃ ᐱᑐᕋᐱᕐᓂᐱᕐᓂᐱᕐᓂᐱᕐᓂᐱᕐ	ᐱᕐᓂᐱᕐᓂᐱᕐᓂᐱᕐᓂᐱᕐᓂᐱᕐ ᓄᐁᕐᓂ ᓄᐁᕐᓂᐱᕐᓂᐱᕐᓂᐱᕐᓂᐱᕐ ᐱᑐᕋᐱᕐᓂᐱᕐᓂᐱᕐᓂᐱᕐ	ᖃᓄᓂᓂᐱᕐᓂᐱᕐ ᓄᐁᕐᓂᐱᕐᓂᐱᕐᓂᐱᕐ ᐱᑐᕋᐱᕐ ᔨᐱᕈᕆᕐᓂᐱᕐᓂᐱᕐ ᓄᐁᕐᓂ
mapping area	Scientific/International Polar Year Research	Inuit Owned Surface Lands	According to western science, this area, which has only been briefly studied in the past, could provide critical information involving the initial assembly of North American continents.	Any crew member who discovers an archaeological object or a fossil will be instructed not touch or remove it from the location where it was found and report the discovery immediately to the Territorial Archaeologist.	About 110 km west of Chesterfield Inlet.

ፌዴራል ልረጅኛርድ፡፡ ማረጋገጫ ለጸጋኛሃረጅ፡፡ ማረጋገጫ ለጸጋኛሃረጅ፡፡

ᓄᓇᑦᑎᙳᖅ	ᐱᑏᑦ	ᕐᐸᐃᑦᕐᑎᑏᑦᖅ	ᖅᓴᓂ ᐸᐃᖅᑎᑕᐅᓚᐅᓂᐱᐊᖅᑦᓂᖅ
ᖅᕆᓂ'ᐅᐱᖅ	Sheldon Dorey	Hamlet of Baker Lake	2024-02-28
ᖅᕆᓂ'ᐅᐱᖅ	Angel Awksawnee	Baker Lake Hunters and Trappers Organization	2024-02-28
ᐃᖅᐅᓕᓴᖅ	Venissa Mimialik	Aqigiq Hunters and Trappers Organization	2024-03-21
ᐃᖅᐅᓕᓴᖅ	Paul Bosetti	Hamlet of Chesterfield Inlet	2024-03-21
ᕐᓴᑦᑎᓕᓂᖅ	Luis Manzo	Kivalliq Inuit Association	2024-02-10

$\mathbb{C} \Delta^{\text{a}} \dot{\rho}^c \wedge J^{\text{a}}_{\text{a}} \triangleright \dot{n} \triangleleft^{\text{a}} \Gamma^{\text{ab}} C \triangleright \rho L \dot{\nu}^c$

### Project transportation types

Transportation Type	How the material is transported	Length of Use
Water	Transported to and from camp by local boat from Baker Lake or Chesterfield Inlet at the beginning and end of the project	



### Project accomodation types

## Temporary Camp

A<sup>c</sup>d<sup>c</sup> d<sup>a</sup>r<sup>a</sup><sup>b</sup> d<sup>c</sup><sup>b</sup>C<sup>b</sup>D<sup>b</sup>σd<sup>a</sup>r<sup>a</sup><sup>b</sup> ΔL<sup>c</sup>b<sup>a</sup>D<sup>a</sup>N<sup>a</sup>r<sup>c</sup> Δd<sup>c</sup>CΔ<sup>c</sup>, Γ<sup>c</sup>-<sup>a</sup>d<sup>a</sup>p<sup>a</sup>n<sup>c</sup>, <sup>b</sup>b<sup>a</sup>L<sup>c</sup>C<sup>a</sup>i<sup>b</sup>, m<sup>a</sup>e<sup>a</sup>r<sup>a</sup>D<sup>c</sup> d<sup>a</sup>r<sup>a</sup>r<sup>c</sup>-<sup>a</sup>

[illegible]

ΔL<sup>9b</sup> ◀<sup>9b</sup> C ▶<sup>9b</sup> L<sup>9b</sup> ▶<sup>9b</sup>

	
1	Nearby stream/river

$\triangle^b C d^c$ 
$$\Delta^b C d_{\Gamma} n_{\sigma} \Delta^c \sigma^c$$

ለርቢሳንገረዳርገር ለርቢሳንገረዳርገር	ፍጥረት ልገርገር	ፍጥረት ልገርገር ከፍተኛ ልገርገር	ፍጥረት ልገርገር	ከፍተኛ ልገርገር
Camp	ፈገገር ልገርገር	5 L daily	greywater pit	N/A
Camp	ልገርገር ልገርገር	100 lbs	Transported back to town for proper disposal.	N/A
Camp	ፍጥረት	10 lbs	outhouse/burial	N/A

$\Delta \nabla \Gamma \triangleright C^c \supset^c \Delta^b \supset^{cb} C \triangleright \Gamma L^c$

The predicted environmental impacts (physical, biological, socioeconomic) are expected to be minimal. A small temporary camp will be set up with everything to be removed at the end of the project, including waste. Noise will be limited to a small generator used in camp during the morning and evening hours. Wildlife will be avoided and monitored by a local wildlife monitor.

# **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

[illegible][illegible][illegible]

### Miscellaneous Project Information

[illegible]

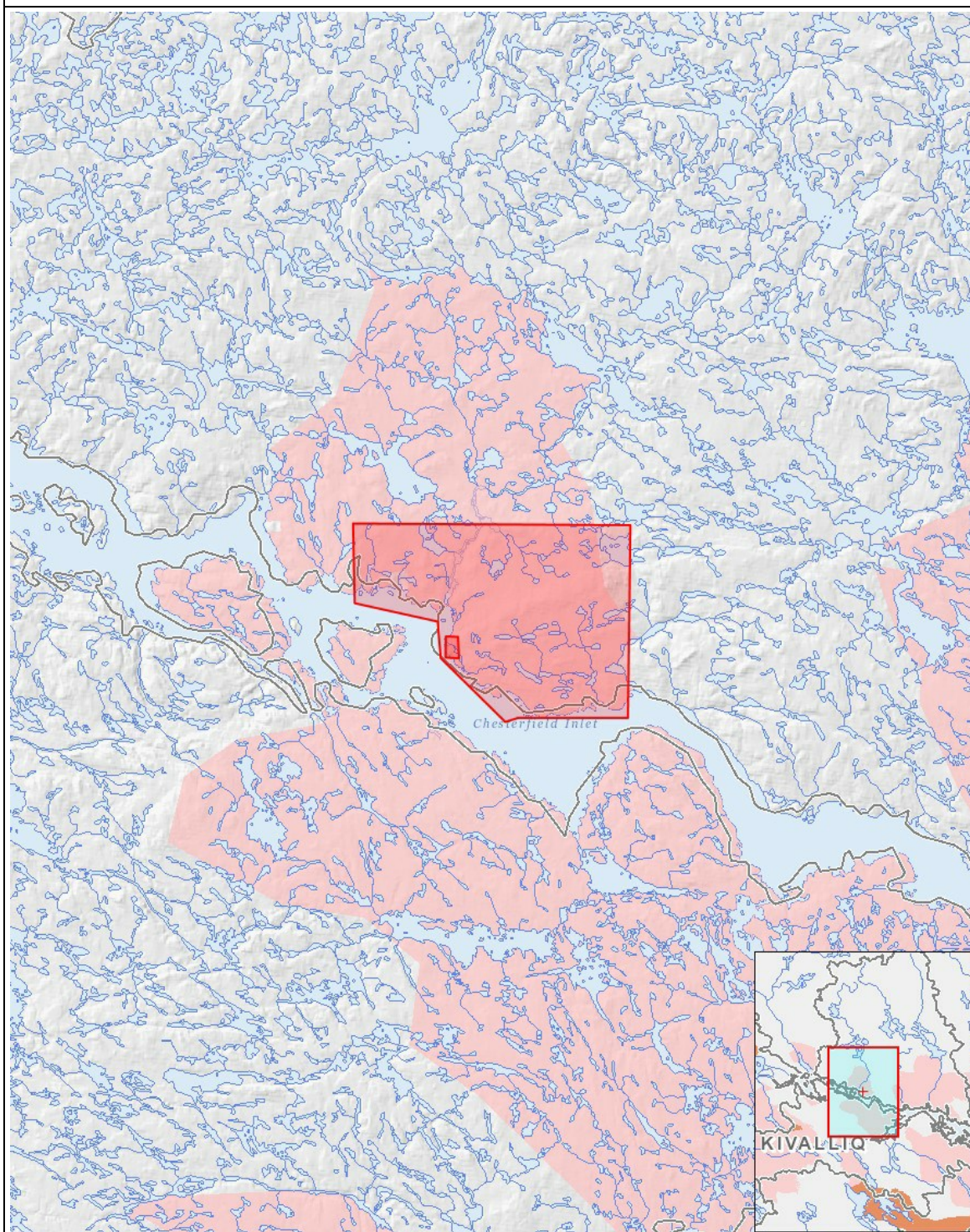
## Cumulative Effects

## Impacts

$\mathbb{A}^{\mathfrak{b}} \mathbb{C} \triangleright \sigma^{\mathfrak{a}} \mathfrak{r}^{\mathfrak{c}} \triangleleft \mathfrak{e} \mathfrak{n} \Gamma \triangleright \mathbb{C} \dot{\sigma}^{\mathfrak{c}} \mathbb{D}^{\mathfrak{c}} \triangleleft \mathfrak{b} \mathbb{D}^{\mathfrak{b}} \mathbb{C} \triangleright \mathfrak{l} \mathfrak{r}^{\mathfrak{c}}$

[illegible]

( $P = \langle b \rangle_{\mathbb{A}_2 \cap \mathbb{A}_2^{\text{a}}} \mathbb{A}_2^{\text{a}}$ ,  $N = \langle b \rangle_{\mathbb{A}_2 \cap \mathbb{A}_2^{\text{a}}} \mathbb{A}_2^{\text{a}} \langle \mathbb{A}_2 \cap \mathbb{A}_2^{\text{a}} \rangle \mathbb{A}_2^{\text{a}}$ ,  $M = \langle b \rangle_{\mathbb{A}_2 \cap \mathbb{A}_2^{\text{a}}} \mathbb{A}_2^{\text{a}} \langle \mathbb{A}_2 \cap \mathbb{A}_2^{\text{a}} \rangle \mathbb{A}_2^{\text{a}}$ ,  $U = \mathbb{A}_2 \cap \mathbb{A}_2^{\text{a}}$ )



List of Project Geometries

1	polygon	mapping area
2	polygon	camp location