ᓄᓇᕗᒥ ᐊᕙᑎᓕᕆᔨᒃᑯᑦ ᑲᑎᒪᔨᖏᑦᑎᒍᑦ ᑐᒃᓯᖅᑑᑦ ᖅᑭᒥᖅᕈᔭᒃᓴᖅ #125790

Geological Mapping of Boundary Structures

ᑐᒃᓯᖅᑑᑕᐅᔪᖅ ᖃᓄᐃᑦᑑᓂᖓ:	New
ᐱᓕᕆᐊᕆᔭᐅᔪᒪᔫᑉ ᖃᓄᐃᑦᑑᓂᖓ:	Scientific Research
ᐅᓪᓗᖓ ᑐᒃᓯᖅᑑᑎᓕᐊᕕᓂᐅᑉ:	4/6/2023 1:43:07 PM
Period of operation:	from 0001-01-01 to 0001-01-01
ᑲᔪᓯᒃᑲᐃᔨᐅᓂᐊᕋᓯᒋᔭᐅᔪᑦ:	from 0001-01-01 to 0001-01-01
ᐱᓕᕆᐊᖅᑲᕈᒪᔪᖅ:	Daniele Regis Geological Survey of Canada 601 Booth Street Ottawa Ontario K1A 0E8 Canada ᐅᖅᑳᓚᐅᑏᑦ: 6134133720, ᓯᑲᔪᒃᑯᑦ:

ᑐᓴᐅᒪᔭᒃᓴᑦ

ᖃᓄᐃᑦᑑᑎᓂᒃ ᐱᓕᕆᐊᖅᑲᖅᓂᐊᕆᐊᖕᒐᓐᓂᒃ

ᖃᓪᓗᓈᑎᑐᑦ: Metamorphic rocks are a common occurrence in Canada's North and form when a rock is exposed to high temperature and/or high pressure geological processes. Exposure to such conditions is often recorded as distinct modifications to the rock's minerals, structure and/or changes in major and trace element chemistry. Quantifying trace element and precious metal concentrations and understanding how these elements and metals move during metamorphism and deformation, is paramount to understanding ore-forming processes in Canada's North.This project will apply innovative laboratory-based techniques to samples collected during targeted fieldwork north of Rankin Inlet (NU) to study these processes. Within this region that forms the ancient core of North America, preliminary observations and data indicate the presence a new major structure – the Raptor shear zone – which is associated with known mineralization but could have significant mineral potential west of current exploration activity. In order to study the relationship between the metamorphic rocks and fluids, and ore formation, we propose an in-depth investigation of the evolution of this structure and its spatial and genetic relationship to mineralization and rocks in the region.A team of 5 researchers will conduct sampling for two and a half weeks in July 2023. The crew will be set out by helicopter from Rankin Inlet and will conduct daily short hikes along the structure to collect fist-sized rock samples, take photos, and measurements. The research undertaken will result in the creation of detailed geological maps of the bedrock exposed across the area. We are planning on hiring one summer field assistant during fieldwork in 2023 and aim to recruit a Northern student where possible. In addition to creating maps, our research will contribute to the development of geological models for the formation of ore systems in metamorphic rocks, and more in general it will contribute to an understanding of the geological history of the region, and how it relates to other parts of Nunavut. Findings from 2023 fieldwork will be communicated back to the communities impacted (Rankin Inlet and Chesterfield Inlet).

ᐅᐃᕖᑎᑐᑦ: N/A

ᐃᓄᒃᑎᑐᑦ: ᐅᔭᕋᐃᑦ ᑕᐅᑦᑐᖕᒥᑦ ᐊᓯᐊᖕᒍᖅᓯᒪᔪᑦ ᑕᑯᓐᓇᕋᔪᒃᑐᑦ ᑲᓇᑕᐅᑉ ᐅᑭᐅᖅᑕᖅᑐᖕᒐᓂ ᐆᓇᓗᐊᖅᓂᖅᒍᑦ ᑕᐅᑦᑐᖕᒥᑦ ᐊᓯᐊᖕᒍᖅᑎᑕᐅᓯᒪᔪᑦ. ᑕᐅᑦᑐᖕᒥᑦ ᑎᑎᕋᒐᐅᓯᒪᕙᖕᒪᑕ ᐊᓯᐊᖕᒍᖅᑕᐅᓯᒪᓂᖕᒥᓐᓄᑦ ᐅᔭᕋᐃᑦ ᓄᓇᒻᒥ ᓇᓂᔭᐅᓯᖅᑐᑦ, ᐃᓕᖅᑯᓯᖅᑲᖅᑐᑦ ᐊᓯᐊᖕᒍᖅᑕᐅᓯᒪᑉᐳᑎᒃ ᐊᖕᒥᔪᒻᒥᒃ ᐊᒻᒪ ᐊᓯᖕᒥᓐᓂ ᑕᐅᑦᑐᖅᑲᓕᖅᑎᑦᓯᕙᒃᑐᑦ. ᐅᓄᖅᓂᖕᒥᑦ ᐅᔭᕋᐃᑦ ᐊᑭᑐᔫᑉᐳᑎᒡᓗ ᓇᓂᔭᒃᓴᐅᓂᖕᒥᓐᓄᑦ ᑐᑭᓯᓐᓇᖅᑑᑉᐳᑎᒃ ᐱᕙᓪᓕᐊᓂᖕᒥᓂᒃ ᓴᐱᖕᒍᖅᓯᒪᓂᖕᒥ ᐊᓯᐊᖕᒍᖅᑕᐅᓯᒪᓂᖕᒥᓪᓗ, ᑐᑭᓯᓐᓇᖅᐸᖕᒪᑕ ᓴᐱᒃᓴᐅᓂᖕᒥ ᓴᖅᑭᓕᐊᓯᖅᓂᖕᒥᓂᒃ ᑲᓇᑕᐅᑉ ᐅᑭᐅᖅᑕᖅᑐᖕᒐᓂ .ᑖᒻᓇ ᐱᓕᕆᐊᖕᒍᔪᖅ ᑐᖅᑫᒐᖅᑲᖅᒪᑦ ᐊᓯᐊᓐᓂᒃ ᐱᓕᕆᐊᖕᒍᑉᓗᓐᓂ ᖃᐅᔨᓴᖅᐱᖕᒥ ᑲᑎᖅᓱᒐᐅᓯᒪᔪᓂᑦ ᓇᓗᓇᐃᔭᒐᐅᓯᒪᑉᐳᑎᒃ ᓄᓇᒻᒥᑦ ᑲᖕᒥᓕᓂᖅᒥ (ᓄᓇᕗᒥ) ᖃᐅᔨᓴᒐᐅᓂᐊᖅᑐᑎᒃ. ᐃᓗᐊᓐᓂ ᑭᐸᓪᓕᐅᑉ ᖃᖕᒐᓂᑕᐅᔪᑦ ᓄᑕᐅᖕᒥᓂᖕᒥᑦ ᓄᐊᑦ ᐊᒥᐊᓇᑲᒻᒥ, ᑕᐅᑐᖕᒐᓂᒃ ᐊᒪ ᑎᑎᖃᖅᑕᐅᕙᓪᓕᐊᓂᖕᒐᓂᒃ ᓄᑖᒥᒃ ᐊᖕᒥᔪᒻᒥᒃ ᐱᑕᖅᑲᖅᓯᒐᓈᓕᖅᐸᒃᐳᑦ – ᖁᐋᑕ ᓄᓇᐅᑉ ᐊᑖᓂ ᐅᔭᖁᒃ ᑕᑭᔪᖅ ᓇᓗᓇᐱᖕᓇᐃᖅᑐᓐᓂ – ᖃᐅᔨᒪᔭᐅᑉᑐᓐᓂ ᐊᓯᖕᒐᓂᒃ ᐅᔭᖁᖅᑲᖅᓂᖕᒥᑦ ᐊᑭᑐᔫᓕᖅᐸᖕᒪᑕ ᐱᑕᖅᑲᖅᓯᒥᔭᐅᑉᑐᓐᓂ ᖁᓂᒪᒃᓴᐅᓕᖅᓂᖅᐸᑦ. ᖃᐅᔨᓴᖅᓂᐊᖅᑐᓐᓂ ᐃᓚᒌᓪᓂᖕᒐᓂᒃ ᐱᓕᕆᐊᖕᒍᓐᓂᑯᑉ ᐅᔭᕋᐃᑦ ᐊᒻᒪ ᐃᒪᖅᑲᖅᓂᖕᒐ, ᓴᐱᒃᓴᖕᒍᖅᑎᑕᐅᕙᓪᓕᐊᓂᖕᒐᓪᓗ ᐅᑭᐅᓐᓂᒃ ᐊᒥᓯᓐᓂᒃ ᓄᓇᐅᑉ ᐊᑖᓂ, ᐃᓯᒪᓕᐅᖅᓯᒪᕗᒍᑦ ᖃᐅᔨᓴᕆᒪᑉᐳᒥᑦ ᐱᕙᓪᓕᐊᓂᖕᒥᑦ ᑕᑯᐊ ᐅᔭᕋᐃᑦ ᓄᓇᐅᑉ ᐊᑖᓂ ᐊᓯᖕᒥᓂᒃᓗ ᐃᓚᖅᑲᖅᓂᖕᒥᑦ ᓇᓂᔭᐅᓯᒪᔪᑦ ᐅᔭᖁᖕᒍᖅᐸᓕᐊᓂᖕᒥᑕ ᑭᐸᓪᓕᖅᒥ.ᖃᐅᔨᓴᖅᑎᐅᓂᐊᖅᑐᑦ 5–ᖕᒍᓂᐊᖅᒪᑕ ᐅᔭᖁᖕᓂᒃ ᖃᓄᐃᑑᓂᖕᒐᓂᒃ ᖃᐅᔨᓴᖅᓂᐊᖅᑐᓐᓂ ᐱᓇᓱᐊᕈᓰᒃ ᒪᕉᒃ ᓇᐸᖕᒐᓐᓂᓪᓗ ᔪᓚᐃ 2023. ᕼᐊᓕᑳᑉᑕᑯᑦ ᐃᖕᒥᖁᓂᐊᖅᐳᑦ ᑲᖕᒥᓕᓂᖅᒥᑦ ᐅᑉᓗᑕᒫᓪᓗ ᐊᑯᓂᐅᖕᒥᑐᒥᒃ ᐃᖕᒥᖁᓗᑎᒃ ᐃᓯᒪᒥᔭᐅᓯᒪᔫᑉ ᓇᓖᒍᑦ ᑲᑎᖅᓱᐃᓗᑎᒃ ᐊᖕᒥᓗᐊᖕᒥᑐᓐᓂᒃ ᐅᔭᖁᖕᓂ, ᐊᔾᔨᓕᐅᓇᖅᓗᑎᒃ ᐆᑦᑐᖅᑕᖅᓗᑎᒡᓗ ᐊᖕᒥᓂᖕᒐᓐᓂᒃ. ᖃᐅᔨᓴᖅᓂᖅ ᓴᖅᑭᑎᑦᓂᐊᖅᒪᑦ ᓄᓇᖕᒍᐊᖅᓂᒃ ᓄᓇᐅᑉ ᐊᑖᓂ ᐅᔭᕋᐃᑦ ᐃᖕᒥᖁᓂᖕᒐᓂᒃ ᓄᓇᒻᒥ. ᐃᓯᒪᕗᒍᑦ ᐃᓚᖅᑭᒪᑉᐳᑕ ᐊᐅᔭᒻᒥ ᐃᑲᔪᖅᑎᒃᓴᒥᒃ ᓄᓇᒻᒥ ᖃᐅᔨᓴᖅᓂᖅᒥ 2023–ᒥ ᐊᒻᒪ ᐃᓄᐃᑦ ᓄᓇᖕᒐᓐᓂᑦ ᐃᓕᓐᓂᐊᖅᑐᒻᒥᒃ ᐊᔪᖅᓇᖕᒥᐸᑦ. ᐃᓚᑲᓂᖅᓯᒪᓗᓐᓂ ᓄᓇᖕᒍᐊᓕᐅᖅᓂᖅ, ᖃᐅᔨᓴᖅᑏᑦ ᐃᑲᔪᖅᓂᐊᖅᒪᑕ ᐅᔭᕋᐃᑦ ᖃᐅᔨᓴᒐᐅᑕᓕᖅᑐᑎᒃ ᓴᐱᒃᓴᖅᑲᖅᓂᖕᒐᓐᓂᒃ ᐊᓯᖕᒥᓂᒃᓗ ᑐᑭᓯᐅᒪᔪᑕᐅᓂᐊᖅᑐᑎᒃ ᖃᖕᒐ ᐅᔭᕋᐃᑦ ᐱᕙᓪᓕᐊᓂᖕᒐᓐᓂᒃ ᑭᐸᓪᓕᖅᒥ, ᖃᐅᖅᓗ ᐊᓯᖕᒥᓐᓄᑦ ᐃᓚᐅᓕᖅᓂᖕᒐᓐᓂᒃ ᓄᓇᕘᒥᓗᒃᑖᖅᓗ. ᖃᐅᔨᓴᖅᓂᑯᑦ 2023 ᐃᓗᐊᓂ ᑐᓴᒐᐅᓂᐊᖅᐳᑦ ᓄᓇᓕᖕᒍᑦ ᐊᒃᑐᒐᐅᓯᒪᔪᒻᒍᑦ ᑲᖕᒥᓕᓂᖅᒥ ᐃᒡᓗᓕᒑᖅᔪᒍᓪᓗ.

Inuinnaqtun: N/A

Personnel

Personnel on site: 5
Days on site: 17
Total Person days: 85
Operations Phase: from 2023-07-05 to 2023-07-22

ᐱᓕᕆᐊᕆᔭᐅᓂᐊᖅᑐᑦ

ᓇᒥ	ᖃᓄᐃᑦᑑᒥᑦ ᐱᓕᕆᐊᖃᕐᓂᐊᖅᐸ	ᑭᒃᑯᑦ ᓄᓇᖂᑖᓂ	ᑐᓴᐅᒪᔭᒃᓴᑦ ᓄᓇᐅᑉ ᖃᓄᖅ ᐊᑐᖓᐅᓚᐅᖅᓯᒪᔭᕆᐊᖓᓐᓂᒃ	ᐃᑦᓴᕐᓂᑕᖃᕐᕕᐅᕙᓚᐅᖅᐸ ᐃᓄᖕᓄᑦ ᓇᔪᖅᑕᐅᖃᑦᑕᕐᓂᑰᕙᓗ ᑕᐃᑦᓯᒪᓂᑐᖃᐅᓕᖅᑐᖅ	ᖃᓂᓐᓂᖅᐹᖅ ᓄᓇᓕᒋᔭᐅᔪᖅ ᐊᒻᒪᓗ ᓴᐳᒻᒥᒃᓰᕕᐅᕙᓗ ᓱᓇᓄᑦ
proposed study area, crew will be based in Rankin Inlet. See attached documents.	Researching	Inuit Owned Surface Lands	This project will apply innovative laboratory-based techniques to samples collected during targeted fieldwork 60-100 km north of Rankin Inlet (NU) along a newly recognized boundary structure (Raptor Shear zone). A team of 5 researchers will conduct sampling for two and a half weeks in July 2023. The crew will be set out by helicopter from Rankin Inlet and will conduct daily short hikes along the structure to collect fist-sized rock samples, take photos, and measurements.	N/A	The boundary structure of interest is located ca. 60-100 km N and NW of Rankin Inlet (which is the crew's base of operations).

ᓄᓇᓕᐅᑉ ᐃᓚᐅᖃᑕᐅᓂᖓ ᓄᓇᓖᓐᓄ ᐊᕕᒃᑐᖅᓯᒪᐅᕐᓂᖓᓄᑦ ᐃᑲᔪᑕᐅᔪᓐᓇᖅᑐᑦ

ᓄᓇᓕᒋᔭᖅ	ᐊᑏᑦ	ᑲᑐᔾᔨᐊᖃᑎᒌᒋᔭᖅ	ᖃᖓ ᑐᓴᖅᑎᑕᐅᓚᐅᕆᐊᖕᒥᓐᓂᒃ
ᖃᒪᓂ'ᑐᐊᖅ	Sheldon Dorey	Hamlet of Baker Lake	2023-02-10
ᖃᒪᓂ'ᑐᐊᖅ	Richard Aksawnee	Hamlet of Baker Lake	2023-02-10
ᖃᒪᓂ'ᑐᐊᖅ	Brian Pudnak	Baker Lake Hunters and Trappers Organization	2023-02-10
ᐃᒡᓗᓕᒑᕐᔪᒃ	John Ivey	Hamlet of Chesterfield Inlet	2023-02-10
ᐃᒡᓗᓕᒑᕐᔪᒃ	Tony Amauyak	Hamlet of Chesterfield Inlet	2023-02-10
ᐃᒡᓗᓕᒑᕐᔪᒃ	Harry Aggark	Aqigiq Hunters and Trappers Organization	2023-02-10
ᑲᖕᒋᖅᖠᓂᖅ	Darren Flynn	Hamlet of Rankin Inlet	2023-02-10
ᑲᖕᒋᖅᖠᓂᖅ	Harry Towtongie	Hamlet of Rankin Inlet	2023-02-10
ᑲᖕᒋᖅᖠᓂᖅ	Andre Aokaut	Kangiqliniq Hunters and Trappers Organization	2023-02-10

ᓚᐃᓴᓐᓰᑦ ᐱᒧᖕᓇᐅᑏ ᐊᖏᖅᑕᐅᓯᒪᔪᑦ

ᓇᒦᕕᐊᖏᓐᓂᒃ ᐱᓕᕆᐊᕆᑦᓯᐅᓂᐊᖅᑐᑦ ᑎᑎᕋᕐᓗᑦ:

Kivalliq

ᓚᐃᓴᓐᓰᑦ ᐱᒧᖕᓇᐅᑏ ᐊᖏᖅᑕᐅᓯᒪᔪᑦ

ᒐᕙᒪᑭᔭᐅᔫᑉ ᐊᕕᒃᑐᖅᓯᒪᐅᕐᓂᖓᓐᓂ ᒪᓕᒐᕐᓈᖓᔪᓂᒃ ᐱᖁᔭᕐᓈᖓᔪᓂᒡᓗ ᑲᒪᔩᑦ ᐱᔪᖕᓇᐅᑎᑖᕈᑎᓂᒃ ᓚᐃᓴᓐᓯᓅᓪᓗ ᑲᔪᓯᒃᑲᐃᔩᑦ	ᖃᓄᐃᑦᑐᓪᓚᓂᐅᕙ ᓚᐃᓴᓐᓯᑖᕈᑕᐅᔪᖅ ᐱᔪᖕᓇᐅᑎᑖᕈᑕᐅᔪᖅ ᐊᖏᖅᑕᐅᔪᕐᓘᓐᓃᑦ	ᒫᓐᓇ ᖃᓄᐃᓕᖓᕙ	ᐅᓪᓗᒥ ᑐᓂᔭᖅ/ ᑐᒃᓯᖅᑑᑕᐅᓚᐅᖅᓯᒪᔪᖅ	ᑭᒡᓕᖃᕐᕕᖓ
ᓄᓇᕗᒥ ᖃᐅᔨᓴᖅᑐᓕᕆᔨᒃᑯᑦ	We are currently working on the NRI permit and it will be submitted in parallel with NIRB and KIA	Not Yet Applied		
ᑭᕙᓪᓕᖅ ᐃᓄᐃᑦ ᑲᑐᔾᔨᖃᑎᒋᒃᑯᖏᑦ	We are currently working on the KIA permit and it will be submitted in parallel with NIRB and NRI	Not Yet Applied		

Project transportation types

Transportation Type	ᓱᓇᒨᑦ ᐊᑐᒐᐅᓂᐊᖅᐸ	Length of Use
Air	Helicopter Bell 206 L3 or L4; 28 flying hours. We requested (PCSP) helicopter support based in Rankin Inlet for daytrips. Helicopter used to set out and pick up the bedrock mapping teams daily. The maximum distance of the outcrops from Rankin Inlet is approximately 60-100km	

Project accomodation types

ᓄᓇᓕᒥᔭᖅ

ᐊᑐᒐᐅᓂᐊᕐᑐᖅ

ᐱᕐᑯᑦ ᐊᖏᔫᖅ ᐊᑐᖅᑕᐅᓂᐅᓴᔫᖅ ᐃᓚᕐᑲᓯᐅᑎᓗᒋᑦ ᐃᑰᑕᐃᑦ, ᒥᓪᓗᐊᕈᑏᑦ, ᕐᑲᖕᒐᑕᓲᖅ, ᓄᓇᓯᐅᑦ ᐊᓯᖏᓪᓗ

ᐊᖏᔫᖅ ᐱᕐᑯᑦ ᐊᑐᒐᐅᓂᐊᕐᑐᖅ ᕐᑲᓄᐃᑦᑑᓂᖕᒐ	ᕐᑲᑦᓯᐅᕙᑦ	ᐊᖏᓂᖏᑦ - ᐳᖅᑐᓂᖏᑦ	ᓱᓇᒧᑦ ᐊᑐᒐᐅᓂᐊᖅᐸ
Helicopter Bell 206	28 hrs	L3 or L4	We will have helicopter support based in Rankin Inlet for daytrips, which will be used to set out and pick up the bedrock mapping teams daily. The maximum distance of the outcrops from Rankin Inlet is approximately 70-100km
GPS	5	N/A	for mapping purposes
Digital cameras	5	N/A	for mapping purposes
Rock hammers	8	N/A	for mapping purposes (collecting fist-sized samples)
Shotgun	2	N/A	2 x Shotgun, 12 Ga, Folding Stock, for safety reasons, provided by PCSP
Cartridge	12	12 gauge	12 x Cartridge, 12 Gauge, Slug, for safety reasons, provided by PCSP
Bear Repellent	6	225 gr	For safety reasons

ᑎᑎᕋᐅᓯᖅᓗᒍ ᐅᖅᓱᒃᓴᐃᑦ ᐊᑦᑕᓇᖅᑐᖅᑖᓪᓗ ᐊᑐᖅᑕᐅᓂᐊᕐᓂᖏᑦ

ᓱᓇᒧᑦ ᐅᖅᓱᒃᓴᒡᒋᐊᖅ ᐊᑐᒐᐅᓂᐊᖅᐸ	ᕐᑲᓄᐃᑦᑐᓪᓚᕆᐅᕙ ᐅᖅᓱᒃᓴᒡᒋᐊᖅ	ᕐᑲᑦᓯᐅᕙᑦ ᐅᖅᓱᒃᓴᕐᑲᐅᑏᑦ	ᑑᒃᓴᐅᑉ ᐃᒪᕐᑲᖅᑎᒋᔫᓐᓇᕐᓂᖕᒐ	ᑲᑎᓪᓗᒍ	ᑑᒃᓴᐃᑦ ᐊᒥᓲᓂᖏᑦ	ᓱᓇᒧᑦ ᐊᑐᒐᐅᓂᐊᖅᐸ
Information is not available						

ᐃᒪᖅ ᐊᑐᖅᑕᐅᔩᒪᖅᑐᖅ

ᐅᓪᓗ ᑕᒦᖅ ᐊᑐᖅᑕᐅᓂᐊᖅᑐᖅ	ᕐᑲᓄᖅ ᐃᒥᖅᑕᕐᑲᑦᑕᕐᓂᐊᖅᐸᑦ	ᓇᕿᑦ ᐃᒥᖅᑕᕐᑲᑦᑕᕐᓂᐊᖅᐸᑦ
0	Tap water	Hotel room in Rankin Inlet

ᐊᑲᑕᔪᑦ

ᐊᑲᑕᔪᓕᓇᓂᐊᕐᓂᖅ

ᐱᓕᓇᐊᓇᔭᐅᔨᒪᔨᒧᑦ ᐱᓕᓇᐊᓇᔭᐅᓂᐊᖅᑐᖅ	ᖃᓄᐃᐃᑦᑐᖅ ᐊᑲᑕᔪᖅ	ᖃᓄᐃᑎᒋ ᐊᑲᑕᔪᑦ ᓴᖅᑭᐊᓂᐊᖅᑐᓇᔭᐅᕐᓂᑦ	ᖃᓄᐃᓂᖅ ᐊᑲᑕᖅᑕᐅᓂᐊᖅᐸ	ᓴᓪᓕᒪᖅᓴᐅᑎᑲᓴᑲᓐᓂᓂᐅᓂᐊᖅᑐᑦ
Information is not available				

ᐊᐢᑎᒥᐅᑕᓂᑐᑦ ᐊᑲᑐᖅᑕᐅᓱᒪᔨᑦ

No permanent or long-term environmental impacts are expected from the proposed mapping activity. A helicopter (Bell 206 L3 or L4) to transport the crew to each exposure can land without any disruption to the tundra. Established airports will support the helicopter base and spill kits will be available. Fore more detail see attached document

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

ᐃᓐᓇ ᐊᕐᑎᐅᕆᑦ ᖃᓄᐃᑦᑐᓕᕆᔨᓂᖅ: ᓄᓇᕆᑦ ᖃᓄᐃᑦᑐᓂᖅ

See attached file

ᐃᓐᓇ ᐊᕐᑎᐅᕆᑦ ᖃᓄᐃᑦᑐᓕᕆᔨᓂᖅ: ᐅᒪᔪᖅᑕᖃᖅᓂᖅ

See attached file

ᐃᓐᓇ ᐊᕐᑎᐅᕆᑦ ᖃᓄᐃᑦᑐᓕᕆᔨᓂᖅ: ᐃᓄᓕᓇᓂᑲᒍᖏᔪᑦ-ᐱᕐᓕᐊᔪᓕᓇᓂᑲᒍᖏᔪᑦ

See attached file

Miscellaneous Project Information

See attached file

ᓄᓗᓇᐃᖅᑕᐅᓂᖓᑦ ᐊᖑᑐᖅᑕᐅᔨᒪᔪᑦ ᖃᓄᐃᑦᑐᓂᖓᑦ ᕿᓕᐅᒥᑦᔪᓂᖅᑕᐅᓂᐊᖅᓂᖓᓪᓗ

See attached file

Cumulative Effects

See attached file

Impacts

ᓄᓗᓄᐃᖅᑕᐅᓂᖅᑎᑦ ᐊᐸᑎᒥᐅᑕᓄᑦᑐᑦ ᐊᑲᑐᖅᑕᐅᓯᒪᔪᑦ

	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
ʕᓄᓂᖅ																									
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ᐅᔾʕᑲᑕᖅ																									
Researching		-	-	-	-	-	-	-	M	-	-	-	M		M	M	M	-	-		-	P	P	-	-
ᐃᑐᑦᑎᓄᖅ																									
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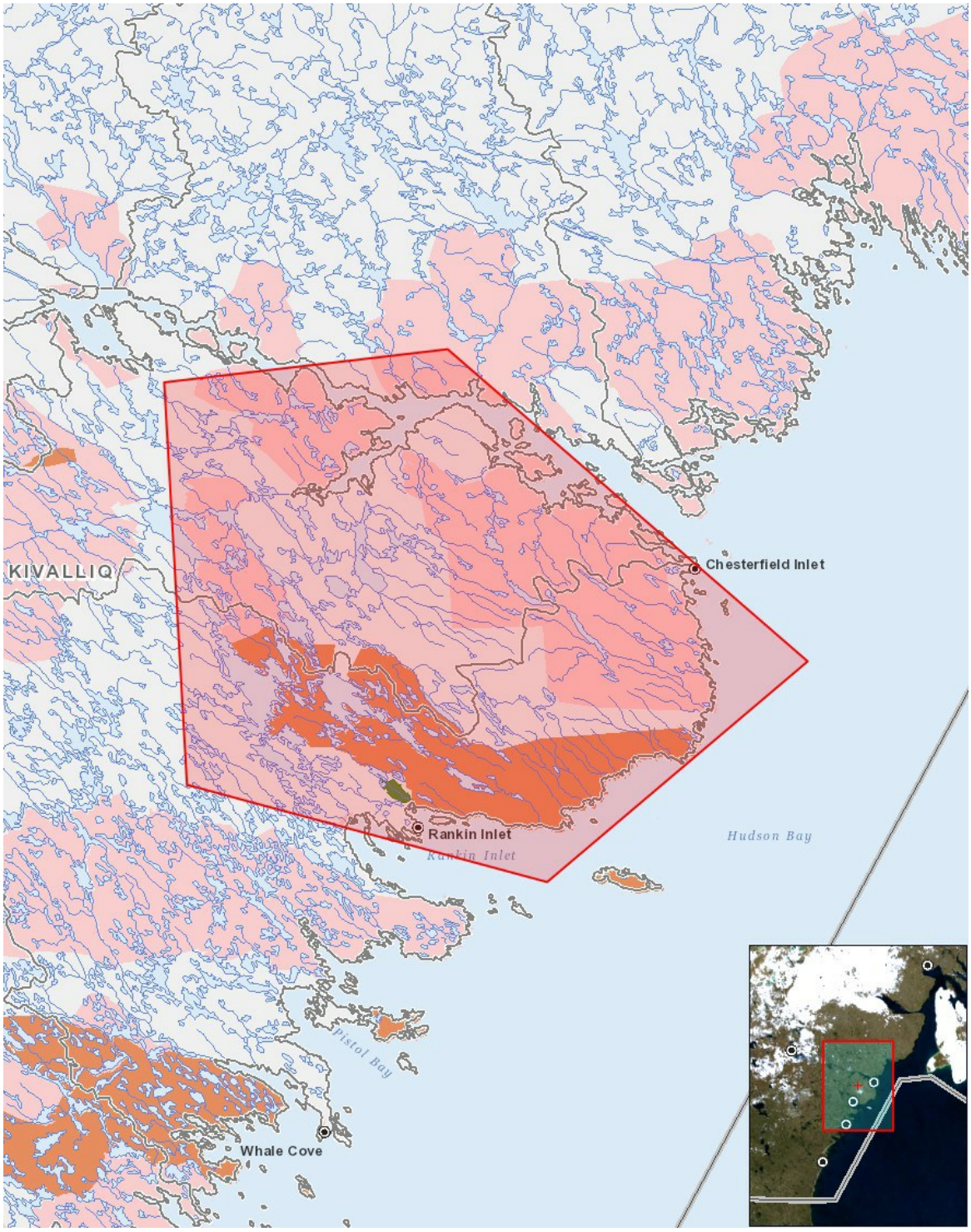
(P = ᐊᑲᐅᓇᑭᑎᔪᓐᓄᖅᑐᑦ, N = ᐊᑲᐅᖃᕐᓂᑕᐅᔪᓐᓄᖅᑐᑦ ᕿᓚᐅᒻᔪᓯᓂᖅᑐᑕᐅᔪᓐᓄᖅᑐᑦ ᕿᓚᐅᒻᔪᓯᓂᖅᑐᑕᐅᔪᓐᓄᖅᑐᑦᓗ, M = ᐊᑲᐅᖃᕐᓂᑕᐅᔪᓐᓄᖅᑐᑦ ᕿᓚᐅᒻᔪᓯᓂᖅᑐᑕᐅᔪᓐᓄᖅᑐᑦᓗ, U = ᖁᑲᐅᔨᒪᓐᓄᖅᑎᑦᑐᖅ)

ᓇᒋᒪᖏᕆᖅ ᐱᓕᓇᐊᓇᓵᐅᔾᔪᖅ



List of Project Geometries

1 polygon	proposed study area, crew will be based in Rankin Inlet. See attached documents.