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Community Geological Mapping of the Kivalliq Corridor

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ኩ መጀጀ ተጀጀ:

New

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ኩ መጀጀ ተጀጀ:

Scientific Research

ኩ መጀጀ
ር መጀጀ ተጀጀ:

2/9/2023 1:10:10 PM

Period of operation:

from 0001-01-01 to 0001-01-01

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አጀጀ ስጀጀ ተጀጀ:

Geological Survey of Canada, Mary Sanborn-Barrie
Geological Survey of Canada, Natural Resources Canada
490-601 Booth Street
Ottawa Ontario K1A0E8
Canada
ስጀጀ ስጀጀ: 343-543-4648, ጥዣት ስጀጀ:

‘**બ્રહ્માદિગુંઠા**’ અને ‘**બ્રહ્માદિશાસ્ત્ર**’

hélicoptère à partir de Whale Cove (2 semaines) et d'Arviat (3 semaines). Des cartes de compilation et des images Landsat combinées à des données aéromagnétiques seront analysées avec les membres de la communauté afin de concevoir une stratégie de vérification au sol des anomalies géophysiques et de nouvelle collecte de données. La cartographie du socle rocheux sera assistée par des habitants du Nord intéressés, en mettant l'accent sur les jeunes de 20 à 30 ans, les sculpteurs et les prospecteurs qui se verront offrir des opportunités de rotation en tant qu'assistants de terrain rémunérés. La cartographie impliquera 10 jours (30 heures) de soutien héliporté depuis Whale Cove (~2-12 juillet 2023) et 10 jours (30 heures) depuis Arviat (~18-30 juillet 2023). Tout l'équipement nécessaire rentrera dans un petit sac à dos fourni à tous les assistants de terrain avec un sac à lunch, et comprendra une loupe, une boussole, un stylo magnétique, un marteau (pour casser un échantillon frais) et un appareil photo numérique. Les observations seront enregistrées sur de petits ordinateurs portables avec GPS Bluetooth, téléchargées quotidiennement et tracées sur des cartes pour interprétation sur une nouvelle carte du substratum rocheux, sur laquelle des assistants locaux contribueront aux auteurs.

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Inuinnaqtun: Please see Inuktitut description (above) and attached as a separate file

Personnel

Personnel on site: 3

Days on site: 35

Total Person days: 105

Operations Phase: from 2023-06-26 to 2023-08-02

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region of proposed bedrock mapping	Researching	Inuit Owned Sub-Surface Lands	includes Crown and IOL. Includes mixed use and limited use (caribou calving grounds)	region likely contains historical markers, inuksuit, hunting and trapping sites that will be left undisturbed	area includes the municipalities of Whale Cove and Arviat
proposed northern fuel cache (8 sealed drums)	Fuel and chemical storage	Inuit Owned Sub-Surface Lands	mixed use	none	152 km WSW of Whale Cove
proposed southern fuel cache (8 sealed drums)	Fuel and chemical storage	Crown	mixed use	none	107 km west of Arviat

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መመሪያ	አባር	በርሃናውን ስነ	ፋይሳት በኩል በርሃናውን ስነ
ቤቶች ማስታወሻ	Luis Manzo	Kivalliq Inuit Association	2022-11-21
አዲስ አበባ	Steve England SAO	Hamlet Office	2022-11-24
አዲስ አበባ	Mike Beauregard	Government of Nunavut Economic Development and Transportation	2022-11-24
አዲስ አበባ	Nicole Issakiark	Arviat Hunters' & Trappers	2022-11-24
አዲስ አበባ	Chi-Chi Arinze, Principal & Lyndsay Hines, Guidance Councillor	John Amaguluk High School	2022-11-25
አዲስ አበባ	Steve England, Hamlet Office	Public Community Meeting with Interpreter	2022-11-25
በየኩል የፌዴራል	Brian Fleming, SAO	Hamlet Office	2022-11-28
በየኩል የፌዴራል	Eva Angoo	Issuark HTO	2022-11-28
በየኩል የፌዴራል	Peter, Science teacher	Inuglak School, Whale Cove	2022-11-29

ՀԱՅՈՒԹԻՒՆ ՎԵՐԱՊԵՏՈՒԹՅՈՒՆ ԳՐԱԿԱՆՈՒԹՅՈՒՆ

መጥበቃዎች ለመፈጸም ለማስፈጸም በበኩል

Kivalliq

ՀԱՅԻ ՔՐԴԱԿԱՆ ՎՐԱՄԿԱՆ

<p>and democratic manner, Inuit of the Kivalliq Region in the development, protection, administration and advancement of their rights and benefits as an aboriginal people, as well as to promote their economic, social, political and cultural well-being through succeeding generations. The KIA's goals include:</p> <ol style="list-style-type: none"> 1) to preserve Inuit heritage, culture & language; 2) to manage Inuit-owned-lands in the region and provide information to and consult with land claims beneficiaries on land use; 3) to protect Arctic Wildlife & environment, thereby preserving traditional uses for current and future generations; and 4) to assist Inuit in the Kivalliq region in training opportunities. 			
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Project transportation types

Transportation Type	Type of Use	Length of Use
Air	helicopter transport from the airport for 10 days, returning each evening	
Land	foot traverse and ATV travel in the community	

Project accomodation types

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የመስቀል ሰነድ	የመስቀል ሰነድ	የመስቀል ሰነድ	የመስቀል ሰነድ
helicopter	1	206L3	to ferry research scientist and 1-3 community assistants from airport to exposed bedrock localities, and return to community each evening
rock hammer	4	3 lb	break off fist-size chunks of rock
chisel	4	0.5 in	assist in taking fist-size rock samples
hand lens	4	16x mag	view minerals in rock
digital camera	4	compact	photograph rock units
tablet	2	20x20 cm	record observations of rock units into digital database
pen magnet	4	6 cm long	check if rock is magnetic
Delorme InReach satellite communicator	4	15x10 cm	Safety device, for emergency use only

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የመስቀል ሰነድ	የመስቀል ሰነድ	የመስቀል ሰነድ	የመስቀል ሰነድ	የመስቀል ሰነድ	የመስቀል ሰነድ	የመስቀል ሰነድ
Aviation fuel	fuel	32	205	6560	Liters	fuel 206L4 based from Whale Cove airport
Aviation fuel	fuel	40	205	8200	Liters	fuel 206L4 based from Arviat airport
Aviation fuel	fuel	8	205	1640	Liters	8-sealed drum cache located 83 nautical miles WSW of Whale Cove to enhance flexibility,

						ensure safety
Aviation fuel	fuel	8	205	1640	Liters	8-sealed drum cache located 57 nautical miles W of Arviat to enhance flexibility, ensure safety

ΔL^{ns} ΔC^{ns}CΔr^{ns}C^{ns}

Δ ^{ns} C ^{ns} ΔC ^{ns} CΔσ ^{ns} C ^{ns}	Δ ^{ns} ΔΓ ^{ns} C ^{ns} b ^{ns} C ^{ns} σ ^{ns} C ^{ns}	Δ ^{ns} ΔΓ ^{ns} C ^{ns} b ^{ns} C ^{ns} σ ^{ns} C ^{ns}
0	municipal tapwater	Tavani Inn, Whale Cove; NRI bunkhouse, Arviat

Q^bC^jc

Q^bC^jc n-s Q^as^b

Λε-α-Δε-τη-θε-λε-γε	ε-β-α-Δ-ε-γε	ε-β-α-θε-ε-θε-γε	ε-β-α-θε	κ-α-λε-κ-θε-θε-θε-θε
Information is not available				

ΑΕΩΓΤΔC^jc Q^bC^jc Θε-λε-γε

Mapping will involve examination and documentation of exposed bedrock within the Kivalliq region west of Whale Cove and Arviat. Coverage will be via low-impact foot traverses by a 2-3 person team comprising the project proponent (Mary Sanborn-Barrie) and 1 or 2 community members. Transport to the exposures will be by helicopter which will return to Whale Cove (July 2-14) or Arviat (July 16-26) airport each evening. All equipment to be used will fit into a small backpack to be provided to all field assistants along with a bagged lunch. Examination of rock exposures is done using a hand lens, structural compass for measurements, pen magnet, hammer (to break off a fresh sample), and digital camera. Observations and interpretations will be recorded on small, hand-held computers with bluetooth GPS. ** No camps, buildings, ditches, trenches, dams, roads or other structures will be constructed ** No trace of our mapping will be detectable (very low impact). Positive impacts include employment, training and mentoring, increased knowledge of how the land evolved over time, so that land-use decisions are founded also on understanding of geological history of the region.

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 11: Municipal Development

Please see the attached Detailed Plan

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July 1 – August 2, 2023 activities are community-based, and include helicopter-assisted mapping carried out by interested residents from the central Nunavut hamlet of Whale Cove (2-weeks) and the lower Nunavut community of Arviat (3-weeks). Compilation maps and Landsat imagery combined with aeromagnetic data will be analyzed with community members. Interested Northerners, with a focus on youth 20-30 years, carvers and prospectors will be provided rotational opportunities as paid field assistants for training and mentoring in geoscience.

Miscellaneous Project Information

Many details and relevant contact information are provided in the attached Detailed Plan with Waste Management and Spill Plan Contingency, with mitigation measures

Please see the attached Detailed Plan with Waste Management & Spill Contingency Plan with mitigation measures

Cumulative Effects

There will be no cumulative effects from this mapping activity, please refer to the attached Detailed Plan with Waste Management & Spill Contingency Plan with mitigation measures

Impacts

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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	

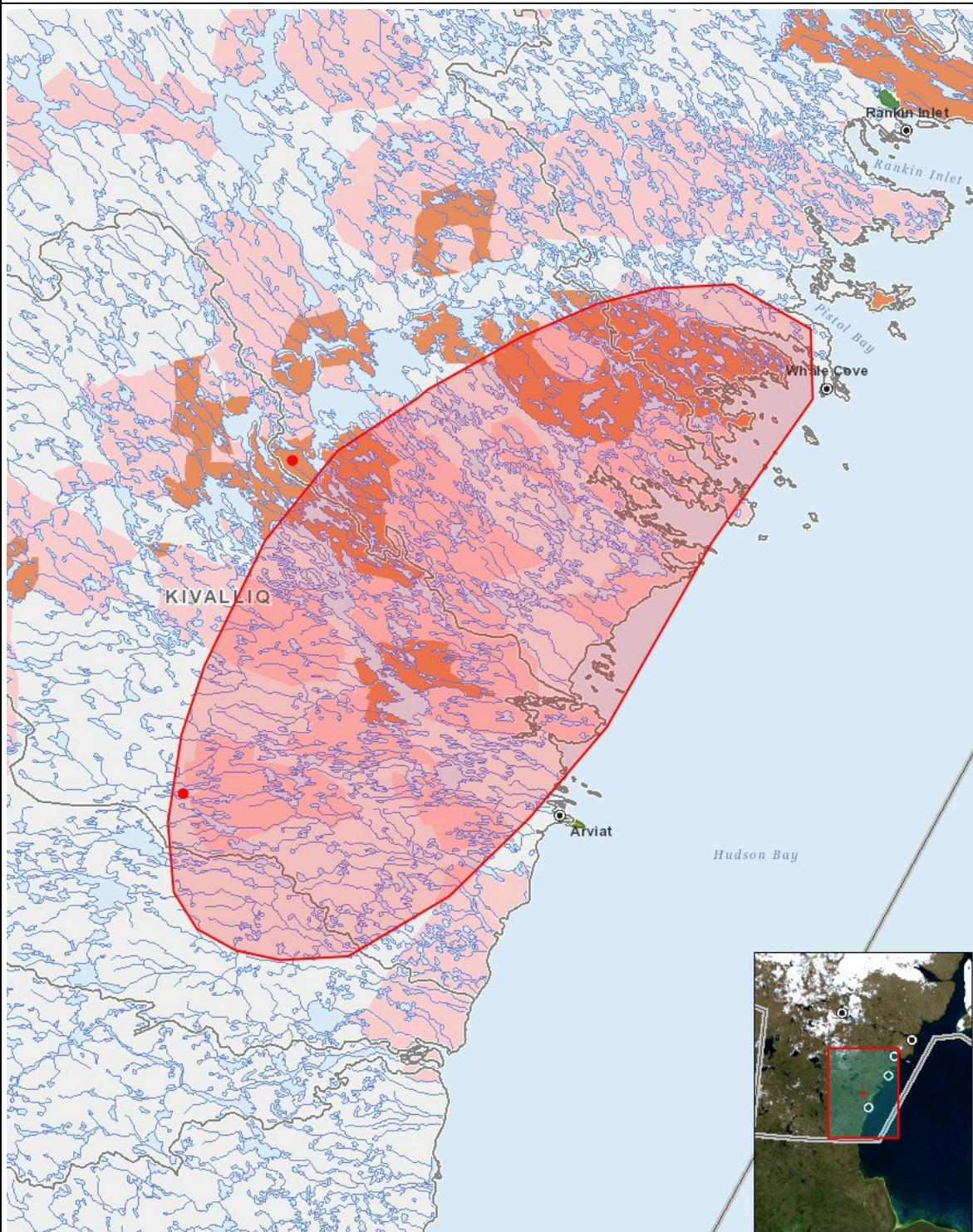
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Researching

ΔΕΙΚΝΥΣ

($P = \{P_1, P_2, \dots, P_n\}$, $N = \{N_1, N_2, \dots, N_m\}$, $C = \{C_1, C_2, \dots, C_k\}$, $M = \{M_1, M_2, \dots, M_l\}$, $U = \{U_1, U_2, \dots, U_r\}$)

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List of Project Geometries

- | | | |
|---|---------|---|
| 1 | polygon | region of proposed bedrock mapping |
| 2 | point | proposed northern fuel cache (8 sealed drums) |
| 3 | point | proposed southern fuel cache (8 sealed drums) |