



ᓇᓘᓘ ሆጀ የጀጀ ቅጀጀ ንጀጀ ቅጀጀ ንጀጀ #125646

Tree River Geoscience Project 2022

ᑕጀጀ የጀጀ
ጀጀ ሁጀጀ:

New

ለጀጀ ሆጀ የጀጀ
ጀጀ ሁጀጀ:

Scientific Research

ጀጀ ሁጀጀ:
ᑕጀጀ የጀጀ ሁጀጀ:

12/20/2021 4:04:36 PM

Period of operation: from 0001-01-01 to 0001-01-01

ጀጀ ሁጀጀ የጀጀ ሁጀጀ: from 0001-01-01 to 0001-01-01

ለጀጀ ሆጀ የጀጀ:

Jesse Reimink

503 Deike Building
University Park Pennsylvania 16802
USA
ጀጀ ሁጀጀ: 18148656666, ሁጀጀ ሁጀጀ:

ፖ. ៥

៥. የጀት ስራ አገልግሎት በጀት ስራ አገልግሎት

ጀት ስራ: • Who: A scientific collaboration between Professor D. Graham Pearson of the University of Alberta and Dr. Jesse Reimink of Penn State University in the United States. Additional personnel involved include a PhD student from Penn State, and possibly regional geoscience experts from: the University of Alberta, Laurentian University, or the Nunavut Geoscience Office, as well as a float plane pilot. • What: We will conduct field sampling of ancient basement rocks exposed on the surface. We will be residing at the Plummer's Tree River Lodge and Kugluktuk for the duration of our project and will be flying a Bush Hawk float plane up to 80 km from this location during the day. We will land the Bush Hawk on small lakes, and hike to outcrops near the lakes. Once at outcrops of scientific interest, we will use small hand hammers to take geological samples for research (~1 kg samples) of the rocks of scientific interest. We will be sampling for 8-10 days and expect to collect ~100 samples of rocks in this time period. The sampling will be spread out and will largely be focused on going back to sample locations that have been described by previous Geological Survey of Canada bedrock mappers, projects that took place in the 1980's. Our crew will consist of three to five geologists and a float plane pilot. • Why: Sedimentary rocks exposed in this region contain mineral grains that are extremely old. With the advanced scientific laboratories currently in use at the University of Alberta, we are able to learn a lot about how the very ancient Earth operated by analyzing tiny mineral grains that are found in these sediments. We will be collecting rock samples that contain these tiny mineral grains, extracting the grains, and analyzing their chemical signatures. Our results will be published in peer-reviewed scientific journals. Hopefully, we will learn a lot about how the ancient Earth operated by analyzing these ancient mineral grains.

ጀት ስራ: NA

ጀት ስራ: NA

Inuinnaqtun: • Kina: Naunaiyaut havaqatiriiqunmi umanga D. Graham Pearson-mit Ilihaqvikuamit Alberta-mi, Dr. Jesse Reimink-milu Penn State-mi Ilihaqvikuamit Amialigat Nunagiyaanit. Ilagiarutit havaktuni ilauyuni ilaqaqtuq PhD-nigiamini ilhaqtuq Penn State-mit, nunamilu nunamiutaliqiyit ayugitut uvanga, Ilihaqvikuamit Alberta-mit, Laurentian-mit Ilihaqvikuamit, uvaluniit Nunavumi Nunamiutanik Naunaiyainit Titiraqvianik, unalu qayalikmik. • Hunauk: Maniqami naunaiyainiaqtugut igilraat tungaviuyunik uyaqaik takuukhauliqtunik qaagani nunap. Hiniktaqviqaqniaqtugut Plummer-p Qugluaqtualukmi Aguniaqtiviani Kugluktumilu atuqhimaatilugu havaariyaqut tikminiaqtugulu Bush Hawk-mi qayalikmi tikmiaqm 80-kilaamitanik umanga inigiyauyumit ubluani. Miniaqtugut mikiyuni tahiqni, pihuklatalu uyaraqtuniqnut haniani tattit. Uyaraktuniqmugarupta naunaiyavikhamut, atuqniaqtugut mikiyunik kautauyanik nunami naunaiyagakhanik ilituqhaqtakhanik (~1-kilogram-guyut naunaiyagakhat) uyaqanik naunaiyagakhanik. Naunaiyainiaqtugut 8-mit qulinut ubluni nahuriyugulu katitiriami ~100-nik naunaiyagakhanik uyaqanik talvuuna. Naunaiyainiq hiamayaktauniaqtuq ihumagiayauluaqniaqtulu utiriami naunaiyariagani inigiyauyut ugautauyut kiguliqmi Nunaliqijutinik Naunaiyautimi Kanatami qaiqtunik nunauiyuqtinit, havaat atuqhimatayut 1980 ukiut atuqtilugit. Havaktivut pigahunit talimanut nunamiutaliqiyit ilauniaqtut qayalikmiklu tigmialikmik. • Huuq: Qaliriiktuuyaqtut uyaqat hatqiqtut uvani nunami piqaqtut uyaraktaakhanik utuqaqyuaguyunik. Ihuaqhivaaliqtuni naunaiyautimi ilituqhautit taja atuqtauyuq Ilihaqvikuamit Alberta-mi, ilitpaliahimayugut amihunik qanuq igilraat Hilaqyuaq aulaniganik ilituqhaqhugit mikanuit uyaraktaakhani ilagiyait naniyahimayut ukunai hiuraliani. Katitiriniaqtugut uyaqanik naunaiyagakhanik piqaqtunik mikanuanik uyaraktaakhanik avugiinik, ahivaqtiquqlugit avugiiknigit, ilituqhaqlugilu hunavaluqaqniginik nalunairutinik. Naluhuiqtavut takuupkaqtitauniqtut havaqatinuit ihivriuqniginik

naunaiyautinik uqauhiini. Ihumami, iliniaqtugut amihunik qanuq taimaniraaluk Nunaqyuaq aulaniqaqmagaq ilituqhaqniginik ukua igilraat uyaraktaakhani ilaliutihimayut.

Personnel

Personnel on site: 4

Days on site: 12

Total Person days: 48

Operations Phase: from 2022-07-15 to 2022-07-25

አርብናኩልዎሳኩር

አገልግሎት አገልግሎት የሚያስፈልግ ስም	የመስጠት ቀን	የመስጠት ቀን	የመስጠት ቀን	የመስጠት ቀን	የመስጠት ቀን
Sampling Region of Interest #1	Researching	Crown	NA	NA	NA
Sampling Region of Interest #2	Researching	Crown	NA	NA	NA
Tree River Lodge Base Camp #4	Camp	Crown	NA	NA	NA
Sampling Region of Interest #3	Researching	Inuit Owned Surface Lands	NA	NA	NA
Sampling Region of Interest #5	Researching	Inuit Owned Surface Lands	NA	NA	NA
Sampling Region of Interest #6	Researching	Inuit Owned Sub-Surface Lands	NA	NA	NA

መስጠት ደረሰኝ የሚያስፈልግ ስም መስጠት ደረሰኝ የሚያስፈልግ ስም ደረሰኝ የሚያስፈልግ ስም

መስጠት ደረሰኝ	ዓለም	የኢትዮጵያ በጥኑ ደረሰኝ	የኤሌክትሪክ ደረሰኝ
Information is not available			

ᓄΔ៥᷇᷇᷇ ለጀ᷇᷇᷇ ላ᷇᷇᷇ ፊ᷇᷇᷇

ጀ᷇᷇᷇ የ᷇᷇᷇ ለ᷇᷇᷇ ለ᷇᷇᷇ ለ᷇᷇᷇ ለ᷇᷇᷇ ለ᷇᷇᷇

Kitikmeot

ᓄΔ៥᷇᷇᷇ ለጀ᷇᷇᷇ ላ᷇᷇᷇ ፊ᷇᷇᷇

ጀ᷇᷇᷇ ለ᷇᷇᷇ ለ᷇᷇᷇ ለ᷇᷇᷇ ለ᷇᷇᷇	ጀ᷇᷇᷇ ለ᷇᷇᷇ ለ᷇᷇᷇ ለ᷇᷇᷇ ለ᷇᷇᷇	ጀ᷇᷇᷇ ለ᷇᷇᷇ ለ᷇᷇᷇ ለ᷇᷇᷇ ለ᷇᷇᷇	ጀ᷇᷇᷇ ለ᷇᷇᷇ ለ᷇᷇᷇ ለ᷇᷇᷇ ለ᷇᷇᷇	ጀ᷇᷇᷇ ለ᷇᷇᷇ ለ᷇᷇᷇ ለ᷇᷇᷇ ለ᷇᷇᷇
Information is not available				

Project transportation types

Transportation Type	ጀ᷇᷇᷇ ለ᷇᷇᷇ ለ᷇᷇᷇ ለ᷇᷇᷇	Length of Use
Air	Float Plane	

Project accomodation types

Permanent Camp

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፳፻፲፭ ሰ-፳፭

ለፋይ ፊል መሬት በፌዴራል ስራውን የሚከተሉትን ዓይነቶች ማረጋገጫ ይችላል

የመስቀል ሰነድ	የመስቀል ሰነድ	የመስቀል ሰነድ	የመስቀል ሰነድ
Hand hammers	3	1x10x3	We will use handheld rock hammers to sample basement rocks
Bush Hawk on floats	1	1	We will utilize a BushHawk on floats for transport to and from field areas.

በበኩል ሰነድ የሚከተሉትን ዓይነቶች ማረጋገጫ

የመስቀል ሰነድ	የመስቀል ሰነድ	የመስቀል ሰነድ	የመስቀል ሰነድ	የመስቀል ሰነድ	የመስቀል ሰነድ	የመስቀል ሰነድ
Aviation fuel	fuel	2	55	110	Gallons	Aviation fuel is required for flying to remote locations

ፈልግ የሚከተሉትን ዓይነቶች

የመስቀል ሰነድ	የመስቀል ሰነድ	የመስቀል ሰነድ
1	Drinking water will be gathered from streams and lakes in the region	

፩፻፭፻፪፯

፩፻፭፻፪፯ የ፩፻፭፻፪፯ ስራ አንቀጽ

ለመስጠት በ፩፻፭፻፪፯ ስራ አንቀጽ	የመልክት	የመሆኑ የ፩፻፭፻፪፯	የመ	የመስጠት በ፩፻፭፻፪፯ ስራ አንቀጽ
Information is not available				

፩፻፭፻፪፯ የ፩፻፭፻፪፯ ስራ አንቀጽ

No environmental impacts will be produced. We will remove all garbage and will take only small research rock samples.

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

Л°а ፳፻ሺ፻ ዓመልካርናውሃዎች፡ ምዕራፍ ዓመልካቸውን

ለፌዴራል የ፩ሺ፻ ዓመልካርናውሃዎች፡ ተወስኗልኩ ዓመልካቸውን

ለፌዴራል የ፩ሺ፻ ዓመልካርናውሃዎች፡ ልማትና ስራውን እንደሚከተሉት የ፩ሺ፻ ዓመልካቸውን

Miscellaneous Project Information

አጠቃላይ የ፩ሺ፻ ዓመልካርናውሃዎች ተወስኗልኩ ዓመልካቸውን እንደሚከተሉት የ፩ሺ፻ ዓመልካቸውን

Cumulative Effects

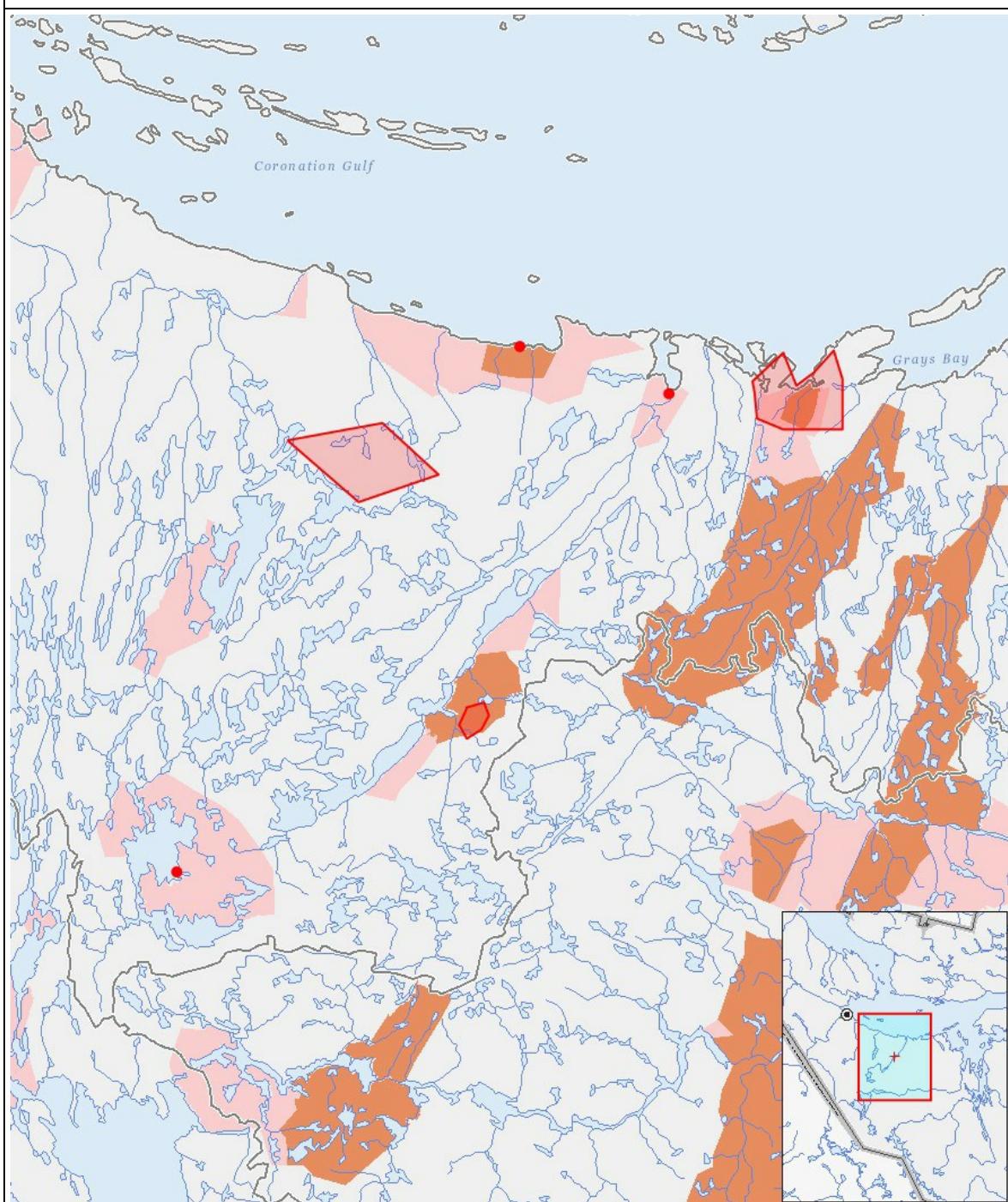
Impacts

പുതിയ പരിസ്ഥിതി നിർവ്വഹണ കമ്മറ്റിക്സ് ഫോറ്മേഷൻ

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
-	-	-	-	-	-	-	-	-	-	-	-
ജീവശാഖ	ജീവശാഖ	ജീവശാഖ	ജീവശാഖ	ജീവശാഖ	ജീവശാഖ	ജീവശാഖ	ജീവശാഖ	ജീവശാഖ	ജീവശാഖ	ജീവശാഖ	ജീവശാഖ
-	-	-	-	-	-	-	-	-	-	-	-
ബന്ധപ്പെട്ട ജീവശാഖ	ബന്ധപ്പെട്ട ജീവശാഖ	ബന്ധപ്പെട്ട ജീവശാഖ	ബന്ധപ്പെട്ട ജീവശാഖ	ബന്ധപ്പെട്ട ജീവശാഖ	ബന്ധപ്പെട്ട ജീവശാഖ	ബന്ധപ്പെട്ട ജീവശാഖ	ബന്ധപ്പെട്ട ജീവശാഖ	ബന്ധപ്പെട്ട ജീവശാഖ	ബന്ധപ്പെട്ട ജീവശാഖ	ബന്ധപ്പെട്ട ജീവശാഖ	ബന്ധപ്പെട്ട ജീവശാഖ
-	-	-	-	-	-	-	-	-	-	-	-
ജീവശാഖ	ജീവശാഖ	ജീവശാഖ	ജീവശാഖ	ജീവശാഖ	ജീവശാഖ	ജീവശാഖ	ജീവശാഖ	ജീവശാഖ	ജീവശാഖ	ജീവശാഖ	ജീവശാഖ
-	-	-	-	-	-	-	-	-	-	-	-
SOCIO-ECONOMIC											
Archaeological and cultural historic sites	Employment	Community wellness	Community infrastructure	Human health							

(P = ദൈർഘ്യം അനുഭവം ആണും, N = ദൈർഘ്യം അനുഭവം ആണും, C = ദൈർഘ്യം അനുഭവം ആണും, M = ദൈർഘ്യം അനുഭവം ആണും, U = ദൈർഘ്യം അനുഭവം ആണും)

አንበሳ ሌሎች አገልግሎት



List of Project Geometries

1	polygon	Sampling Region of Interest #1
2	polygon	Sampling Region of Interest #2
3	polygon	Sampling Region of Interest #3
4	point	Tree River Lodge Base Camp #4
5	point	Sampling Region of Interest #5
6	point	Sampling Region of Interest #6