ᓄᓇᕘᒥ ᐊᕙᑎᓕᓇᔨᒃᑯᑦ ᑲᑎᒪᔨᖕᒋᑦᑎᒍᑦ ᑐᒃᓯᖅᑑᑦ ᕿᒥᕐᕈᔭᒃᓴᖅ #125691

Community-based study of under-ice benthic assemblages in the Arctic (BenthArctic)

ᑐᒃᓯᖅᑑᑕᐅᔪᖅ ᖃᓄᐃᑦᑑᓂᖓ:	New
ᐱᓕᓇᐊᓇᔭᐅᔪᒪᔫᑉ ᖃᓄᐃᑦᑑᓂᖓ:	Scientific Research
ᐅᓪᓗᖓ ᑐᒃᓯᖅᑑᑎᓕᐊᕕᓂᐅᑉ:	4/27/2022 11:10:55 AM
Period of operation:	from 0001-01-01 to 0001-01-01
ᑲᔪᓯᒃᑲᐃᔨᐅᓂᐊᕋᓯᒋᔭᐅᔪᑦ:	from 0001-01-01 to 0001-01-01
ᐱᓕᓇᐊᖃᕈᒪᔪᖅ:	Annie Mercier

Ocean Sciences / Memorial University
St. John's Newfoundland and Labrador A1C 5S7
Canada
ᐅᖃᓚᐅᑏᑦ: 7098642011, ᓯᑲᔪᒃᑯᑦ:

ᑐᓴᐅᒪᓗᓂᑦ

ᖃᓄᐃᑦᑐᑎᓂᓗ ᐱᓕᕆᔨᖃᑎᒌᓕᕆᔨᒃᑯᑦᓂᓗ

ᖃᓄᖅᓱᒪᑎᑐᑦ: The proposed project builds on interest expressed by Inuit communities in Nunavut to assess the status and value of their marine benthic resources and prospects for their sustainable use in the context of food security and climate change. It aims to expand our understanding of nearshore benthic assemblages, with a focus on winter-spring processes occurring at sea-ice edges and on species of relevance to commercial and subsistence fisheries. Interlinked objectives will be dedicated to fundamental research, practical knowledge transfer and community mobilization. Field work is expected to take place in the summer/fall of 2022 and the winter/spring of 2023. The approach centers on the use of a portable remotely operated vehicle (ROV) deployed through holes in the sea ice to investigate the benthic community structure and diversity in two regions (Low vs High Arctic, specifically Sanikiluaq and Grise Fiord). The ROV will have minimal environmental impact; it will capture videos of the benthos and collect a few water, sediment and biological samples for analysis. Videos will be used for scientific analyses and to create education material; they will be shared with end users in the two localities. A complementary segment will assess methods best adapted for the collection and handling of key commercial species. Benthic life occurring underneath or close to inshore polynyas and landfast ice edges in the Arctic is an understudied topic. Findings thus have the potential to yield novel information on species interactions and benthic-pelagic coupling, including how birds and mammals both depend on and fuel the underlying benthos. The project brings together academic investigators (scientists and students), the territorial government, an NGO partner, an Inuit Birthright Corporation, the local Hunters and Trappers Organizations (HTOs), and other members of the Inuit communities. Ultimately it will produce conservation and technical guidelines for species that might be targeted for premium markets (seafood, nutraceuticals, and pharmaceuticals). Moreover, the project will ground-truth the use of small-sized submersibles as a tool for research and capacity-building in areas where other methods would be too destructive or impractical (due to ice cover or shallow depth). Community leaders and youth will be the primary informants and participants in the project.

ᐅᐃᐦᐃᑎᑐᑦ: Le projet proposé s'appuie sur l'intérêt exprimé par les communautés Inuites du Nunavut pour évaluer l'état et la valeur de leurs ressources benthiques marines et les perspectives de leur utilisation durable dans le contexte de la sécurité alimentaire et des changements climatiques. Il vise à élargir notre compréhension des assemblages benthiques côtiers, en mettant l'accent sur les processus hiver-printemps se produisant près des glaces de mer et sur les espèces pertinentes pour les pêches commerciales et de subsistance. Des objectifs interdépendants seront consacrés à la recherche fondamentale, au transfert de connaissances pratiques et à la mobilisation communautaire. Les travaux sur le terrain devraient avoir lieu à l'été/automne 2022 et à l'hiver/printemps 2023. L'approche est centrée sur l'utilisation d'un submersible télécommandé (ROV) portable déployé à travers des trous dans la glace de mer pour étudier la structure de la communauté benthique et sa diversité dans deux régions principales (Bas vs Haut-Arctique, plus précisément Sanikiluaq et Grise Fiord). Le ROV aura un impact minimal sur l'environnement ; il captera des vidéos du benthos et prélèvera quelques échantillons d'eau, de sédiments et d'organismes. Des vidéos seront utilisées pour des analyses scientifiques et pour créer du matériel pédagogique ; elles seront partagées avec les partenaires dans les deux localités. Un segment complémentaire évaluera les méthodes les mieux adaptées pour la collecte et la manipulation des principales espèces commerciales. La vie benthique sous-jacente ou à proximité des polynies côtières et des glaces riveraines dans l'Arctique est un sujet sous-étudié. Les découvertes ont donc le potentiel de fournir de nouvelles informations sur les interactions entre les espèces et le couplage benthique-pélagique, y compris la façon dont les oiseaux et les mammifères dépendent et alimentent le benthos sous-jacent. Le projet

rassemble des chercheurs universitaires (scientifiques et étudiants), le gouvernement territorial, une ONG partenaire, une Société de développement Inuit du Nunavut, les organisations locales de chasseurs et de trappeurs (HTO) et d'autres membres des communautés Inuites. En fin de compte, il produira des directives techniques et de conservation pour les espèces qui pourraient être ciblées pour les marchés haut de gamme (fruits de mer, nutraceutiques et pharmaceutiques). De plus, le projet vérifiera sur le terrain l'utilisation de submersibles de petite taille comme outil de recherche et de renforcement des capacités dans des domaines où d'autres méthodes seraient trop destructrices ou peu pratiques (en raison de la couverture de glace ou de la faible profondeur). Les leaders communautaires et les jeunes seront les principaux informateurs et participants au projet.

ᐃᓄᒃᑎᑐᑦ: ᐱᓕᕆᐊᖑᔪᒪᔪᖅ ᐱᕈᖅᐸᓪᓕᐊᑎᑦᑎᕗᖅ ᐃᓱᒪᒋᔭᖃᕐᓂᕐᒥᒃ ᐅᖃᐅᓯᐅᓯᒪᔪᓂᒃ ᐃᓄᐃᑦ ᓄᓇᓕᖏᓐᓂᑦ ᓄᓇᕗᒻᒥ ᖃᐅᔨᓴᕈᒪᓪᓗᑎᒃ ᖃᓄᐃᓕᖓᓂᖓᓂᒃ ᐱᒻᒪᕆᐅᒋᔭᖏᓐᓂᒡᓗ ᐃᒪᕐᒥᐅᑕᐃᑦ ᖃᓄᐃᙱᓐᓂᓇᔭᖏᓐᓂᒃ ᐊᑐᖅᑕᐅᔪᓐᓇᖅᑐᓂᒃ ᓯᕗᓂᒃᓴᒥᓗ ᐊᑐᖅᑕᐅᓕᕈᓐᓇᖅᑐᓂᒃ ᑕᐃᒪᐃᔾᔪᑎᖃᖅᖢᑎᒃ ᓂᕿᖃᑦᑎᐊᖅᐸᖕᓂᕐᒧᑦ ᓯᓚᐅᓪᓗ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖓᓄᑦ. ᑐᑭᓯᐅᒪᓕᖅᐹᓪᓕᕈᑕᐅᓇᓱᐊᖅᐳᖅ ᓯᒡᔭᖅᐸᓯᒃᑐᒥᑦ, ᐱᓕᕆᐊᖃᓪᓗᐊᑕᖅᖢᑎᒃ ᐅᑭᐅᒃᑯᑦ -ᐅᐱᕐᖔᒃᑯᑦ ᓯᑯᒥᑦ ᐊᒻᒪ ᐆᒪᔪᑦ ᐊᔾᔨᒌᖕᓂᖏᓐᓂᑦ ᐃᖃᓗᒐᓱᖕᓂᖕᓂᑦ. ᑐᕌᒐᐃᑦ ᑐᕌᖓᑎᑕᐅᓂᐊᖅᑐᑦ ᖃᐅᔨᓴᕐᓂᕐᒧᑦ, ᖃᐅᔨᒪᓂᐅᔪᓄᑦ ᓅᑎᑦᓯᓂᕐᒧᑦ ᓄᓇᓕᓐᓂᓪᓗ ᐊᐅᓚᔾᔭᒋᐊᕐᓂᕐᒧᑦ. ᓯᓚᒥ ᐱᓕᕆᓂᕆᔭᐅᔪᖅ ᓂᕆᐅᒋᔭᐅᕗᖅ ᐱᓕᕆᐊᖑᓛᕐᓂᖓᓂᒃ ᐊᐅᔭᐅᓕᖅᐸᑦ ᐅᑭᐊᒃᓵᒃᑯᓪᓗ 2022-ᒥ ᐅᑭᐅᒃᑯᓪᓗ ᐅᐱᕐᙶᒃᑯᓪᓘᓐᓃᑦ 2023-ᒥ. ᐅᐸᑲᖅᑕᕐᕖᑦ ᐊᑐᕐᖢᑎᒃ ᓇᒃᓴᑲᑦᑕᒪᕐᒥᒃ ᐅᖓᓯᒃᑐᒥ ᐊᐅᓚᑕᒥᒃ ᓄᓇᓯᐅᑎᒥᒃ ᐃᓕᔭᐅᓪᓗᓂ ᓯᑯᒃᑯᑦ ᖃᐅᔨᓴᕐᖢᑎᒃ ᐃᒪᕕᖕᒥ ᓄᓇᓕᖕᓂ ᐋᖅᑭᒃᓯᒪᓂᖓᓂᒃ ᐊᔾᔨᒌᖏᕈᓘᔭᖅᑐᓄᓪᓗ ᓴᓂᑭᓗᐊᕐᒥ ᐊᐅᓯᐃᑦᑐᒥᓗ. ᐊᕙᑎᒧᑦ ᐊᒃᑐᐃᓂᖃᓗᐊᔾᔫᙱᑦᑐᖅ ᑕᕐᓇᔭᐅᓯᐅᖅᑕᐅᑎᓪᓗᒋᑦ ᐊᒻᒪ ᐃᒪᕐᒥᒃ ᑲᑎᑦᑎᑎᓪᓗᒋᑦ, ᕿᓂᖅᓯᔭᖅᑕᐅᔪᓂᒃ ᐊᒻᒪ ᐆᒪᔪᓂᙶᖅᑐᓂᒃ ᖃᐅᔨᓴᒐᒃᓴᓂᒃ ᖃᐅᔨᓴᖅᑕᐅᓂᐊᖅᑐᓂᒃ. ᑕᕐᓇᔮᒃᓴᑦ ᐊᑐᖅᑕᐅᖃᑦᑕᕐᓂᐊᖅᐳᑦ ᖃᐅᔨᓴᖅᑎᓄᑦ ᖃᐅᔨᓴᕈᑕᐅᓗᑎᒃ ᓴᖅᑭᑦᑎᓗᑎᒡᓗ ᐃᓕᓐᓂᐊᕈᑎᒃᓴᓂᒃ; ᐊᒥᖅᑳᕈᑕᐅᓂᐊᖅᑐᑦ ᐊᑐᖅᑎᓕᒫᓄᑦ. ᐃᑲᔫᑎᐅᔪᖅ ᖃᐅᔨᓴᕐᓂᐊᖅᑐᖅ ᖃᓄᖅ ᐊᑲᐅᓛᒃᑯᑦ ᐋᖅᑭᒋᐊᖅᑕᐅᓯᒪᖕᒪᖔᑦ ᐊᕝᕗᖅᓯᓂᕐᒧᑦ ᑲᒪᒋᔭᖃᕐᓂᕐᒧᓪᓗ ᓂᐅᕕᐊᒃᓴᓂᑦ ᐆᒪᔪᓂᑦ. ᐃᓅᓯᖅ ᓄᓇᐅᑉ ᐊᑖᓂ ᐅᕝᕙᓘᓐᓃᑦ ᓯᒡᔭᖅᐸᓯᖕᒧᑦ ᖃᓂᕐᓗᓂ ᐊᒻᒪ ᓯᑰᑉ ᑭᒡᓕᖏᓐᓄᑦ ᐅᑭᐅᖅᑕᖅᑐᒥ ᐅᖃᐅᓯᐅᓗᐊᙱᑦᑐᖅ. ᖃᐅᔨᓴᐅᔪᑦ ᓴᖅᑭᑎᑦᑎᔾᔪᑎᐅᓇᓱᐊᕐᓃᑦ ᓄᑖᓂᒃ ᑐᑭᓯᒋᐊᒐᒃᓴᓂᒃ ᐆᒪᔪᐃᑦ ᐊᔾᔨᒌᖏᐊᕐᔪᐊᓐᓂᖏᑦᑕ ᖃᓄᐃᓚᐅᕈᓯᖏᓐᓂᒃ ᖃᓄᕐᓗ ᑎᖕᒥᐊᑦ ᐊᒻᒪ ᐆᒪᔪᑦ ᑕᒪᕐᒥᒃ ᑕᑎᖃᕐᒪᖏᑕ ᐊᒻᒪ ᐅᖅᓱᐊᓗᖅᑲᖅᑎᒥᖕᒪᖏᑕ ᐃᒪᕐᒥᐅᑕᑦ ᐆᒪᔪᑦ. ᑖᓐᓇ ᐱᓕᕆᐊᖑᔪᖅ ᑲᑎᑎᑦᑎᕙᒃᐳᖅ ᓯᓚᑦᑐᖅᓴᕐᕕᒡᔪᐊᓂᒃ (ᖃᐅᔨᓴᖅᑎᓂᒃ ᐃᓕᓐᓂᐊᖅᑎᓂᒡᓗ), ᐅᑭᐅᖅᑕᖅᑐᒥ ᐊᕕᒃᓯᒪᓂᕐᒥ ᒐᕙᒪᒋᔭᐅᕙᒥᒃ, NGO-ᒧᑦ ᐱᓕᕆᖃᑎᒋᔭᐅᕙᒥᒃ, ᐃᓄᐃᑦ ᐃᓄᐃᑦ ᓄᓇᑖᕐᓂᕐᒧᑦ ᑲᑐᔾᔨᖃᑎᒌᒥᒃ, ᓄᓇᓕᖕᓂ ᐊᖑᓇᓱᒃᑐᓕᕆᔨᓂᒃ ᐊᓯᖕᒥᓐᓂᒡᓗ ᐃᓚᒋᔭᐅᕙᓂᒃ ᓄᓇᓕᖕᓂ. ᑕᐃᒪᓕ ᓴᖅᑮᓂᐊᖅᑐᖅ ᐱᐅᖅᓱᐊᕐᓂᕐᒥᒃ ᐊᒻᒪᓗ ᖃᐅᔨᒪᔾᔪᑎᒃᓴᓂᒃ ᐆᒪᔪᕐᓄᑦ ᑐᕌᖓᑐᐃᓐᓇᕆᐊᖃᖅᑐᓄᑦ ᓇᓚᐅᒃᑖᖅᑕᐅᕙᓄᑦ. ᑖᓐᓇ ᐱᓕᕆᐊᖑᔪᖅ ᒪᓂᖅᑲᒧᑦ ᐊᑐᖅᑕᐅᓕᕐᓂᐊᖅᐳᖅ ᒥᑭᑦᑐᒥᒃ ᐃᒫᒨᖅᑐᓂᒃ ᐊᑐᖅᑕᐅᓂᐊᕐᓗᓂ ᖃᐅᔨᓴᕐᓂᕐᒧᑦ ᐊᔪᙱᓐᓂᕆᔭᐅᔪᓄᓪᓗ-ᐋᖅᑭᒃᓯᐃᕈᓪᓚᐊᓂᕐᒧᑦ ᐃᓂᓂ ᑕᒪᒃᑯᐊ ᐊᓯᖏᑦ ᐊᑐᖅᑕᐅᕙᒃᑐᑦ ᓱᕋᒃᑎᖅᑕᐅᓗᐊᕋᔭᖅᖢᑎᒃ ᓈᒻᒪᙱᑦᑐᒃᑯᓪᓘᓐᓃᑦ (ᓯᑯᖃᕐᓂᖓᓄᑦ ᐃᒃᑲᓗᐊᕐᓂᕐᒧᓪᓘᓐᓃᑦ). ᓄᓇᓕᖕᓂ ᓯᕗᓕᖅᑏᑦ ᒪᒃᑯᒃᑐᓪᓗ ᑐᓴᖅᑎᑦᑎᔨᓪᓗᐊᑕᐅᓂᐊᖅᑐᑦ ᐃᓚᐅᓗᑎᒡᓗ ᐱᓕᕆᐊᒃᓴᒧᑦ.

Personnel

Personnel on site: 10

Days on site: 14

Total Person days: 140

Operations Phase: from 2022-05-31 to 2023-06-30

ᐱᓕᕆᐊᕆᔭᐅᓂᐊᖅᑐᑦ

ᓇᒥ	ᖃᓄᐃᑦᑑᒥᑦ ᐱᓕᕆᐊᖃᕐᓂᐊᖅᐸ	ᑭᒃᑯᑦ ᓄᓇᖂᑖᓂ	ᑐᓴᐅᒪᔭᒃᓴᑦ ᓄᓇᐅᑉ ᖃᓄᖅ ᐊᑐᒐᐅᓚᐅᖅᓯᒪᔭᕆᐊᖕᒐᓐᓂᒃ	ᐃᑦᓴᕐᓂᑕᖃᕐᕕᐅᕙᓚᐅᖅᐸ ᐃᓄᖕᓄᑦ ᓇᕗᖅᑕᐅᖃᑦᑕᕐᓂᑰᕙᓗ ᑕᐃᑦᓯᒪᓂᑐᖃᐅᓕᖅᑐᖅ	ᖃᓂᓐᓂᖅᐹᖅ ᓄᓇᓕᕐᔭᐅᕗᖅ ᐊᒻᒪᓗ ᓴᐳᒻᒥᒃᓰᕕᐅᕙᓗ ᓯᓇᓄᑦ
Vicinity of Sanikiluaq in Belcher islands: we have obtained information on sites of interest from partners	Sampling sites	Marine	N/A	N/A	Sanikiluaq
Vicinity of Grise Fiord: that has not been explored yet	Sampling sites	Marine	N/A	N/A	Grise Fiord

ᓄᓇᓕᐅᑉ ᐃᓚᐅᖃᑕᐅᓂᖓ ᓄᓇᓖᓐᓄ ᐊᕕᒃᑐᖅᓯᒪᐅᕐᓂᖓᓄᑦ ᐃᑲᔪᑕᐅᔪᓐᓇᖅᑐᑦ

ᓄᓇᓕᒥᔭᖅ	ᐊᑏᑦ	ᑲᑐᔾᔨᐊᖃᑎᒌᒥᔭᖅ	ᖃᖓᒍ ᑐᓴᖅᑎᑕᐅᓚᐅᕆᐊᖏᓐᓂᒃ
ᐊᐅᓯᐃᑦᑐᖅ	Susie Qaunaq	Aviq Hunters and Trappers Organization	2021-08-03
ᓴᓂᑭᓗᐊᖅ	Lucassie Arragutainaq	Sanikiluaq Hunters and Trappers Organization	2019-03-15
ᓴᓂᑭᓗᐊᖅ	Joel Heath	Arctic Eider Society	2019-03-15
ᐊᐅᓯᐃᑦᑐᖅ	Terry Noah	Ausuittuq Adventures	2021-08-11
ᓴᓂᑭᓗᐊᖅ	Michelle Morrison	Paatsaali School	2022-02-04

ᓚᐃᓴᓐᓰᑦ ᐱᒧᖕᓇᐅᑏ ᐊᖏᖅᑕᐅᓯᒪᔪᑦ

ᓇᒦᒥᐊᖏᓐᓂᒃ ᐱᓕᕆᐊᕆᕝᕕᐅᓂᐊᖅᑐᑦ ᑎᑎᖁᕐᓗᒋᑦ:

North Baffin
South Baffin

ᓚᐃᓴᓐᓰᑦ ᐱᒧᖕᓇᐅᑏ ᐊᖏᖅᑕᐅᓯᒪᔪᑦ

ᒐᕙᒪᒥᔭᐅᕘᑉ ᐊᕕᒃᑐᖅᓯᒪᐅᕐᓂᖕᒐᓐᓂ ᒪᓕᒐᕐᓅᖕᒐᕙᓂᒃ ᐱᕐᑯᔭᕐᓅᖕᒐᕙᓂᒡᓗ ᑲᒪᔩᑦ ᐱᕙᖕᓇᐅᑎᑖᕈᑎᓂᒃ ᓚᐃᓴᓐᓯᓗᓪᓗ ᑲᕙᓯᒃᑲᐃᔩᑦ	ᖃᓄᐃᑦᑐᓪᓚᓇᐅᕙ ᓚᐃᓴᓐᓯᑖᕈᑕᐅᔪᖅ ᐱᔪᖕᓇᐅᑎᑖᕈᑕᐅᔪᖅ ᐊᖏᖅᑕᐅᔪᕐᓗᓐᓃᑦ	ᒫᓐᓇ ᖃᓄᐃᓕᖓᕙ	ᐅᓪᓗᒥ ᑐᓂᔭᖅ/ ᑐᒃᓯᖅᑑᑕᐅᓚᐅᖅᓯᒪᔪᖅ	ᑭᒡᓕᖃᕐᕕᖓ
ᑲᓇᑕᒥ ᐃᖃᓗᓕᕆᔩᑦ ᑕᕆᐅᓕᕆᔩᓪᓗ	Licence to Fish for Scientific Purposes	Active	2022-03-03	2022-09-30
Hunters and Trappers Associations/Organizations	Sanikiluaq HTO and Iviq HTO -- Partners in project and help with local logistics in Sanikiluaq and Grise Fiord	Active	2022-01-31	
ᓄᓇᕗᒥ ᖃᐅᔨᓴᖅᑐᓕᕆᔩᒃᑯᑦ	Application submitted	Applied, Decision Pending	2022-05-04	

Project transportation types

Transportation Type	ᓱᓇᒧᑦ ᐊᑐᒐᐅᓂᐊᖅᐸ	Length of Use
Water	Small boats (locally owned) to reach field sites: ice-free areas	
Land	Snowmobiles and / or all-terrain vehicles (locally owned) to reach field sites : shore or ice floe	

Project accomodation types

ᓄᓇᓕᒥᔪᖅ

ᐊᑐᓚᐅᓂᐊᖅᑐᖅ

ᐱᖁᑦ ᐊᖏᔪᖅ ᐊᑐᖅᑕᐅᓂᐅᕙᔪᖅ ᐃᓚᖃᓯᐅᑎᓗᒋᑦ ᐃᑰᑕᐃᑦ, ᒥᓪᓗᐊᕈᑏᑦ, ᖃᖓᑕᓲᖅ, ᓄᓇᓯᐅᑦ ᐊᓯᖏᓪᓗ

ᐊᖏᔪᖅ ᐱᖁᑦ ᐊᑐᓚᐅᓂᐊᖅᑐᖅ ᖃᓄᐃᑦᑑᓂᖓ	ᖃᑦᓯᐅᕙᑦ	ᐊᖏᓂᖏᑦ - ᐳᖅᑐᓂᖏᑦ	ᓱᓇᒧᑦ ᐊᑐᓚᐅᓂᐊᖅᐸ
Portable remotely operated vehicle	1	12x14x20 inches	Underwater surveys, sample collection
Nets	2	12x24x12 inches	Sample collection

ᑎᑎᕋᐅᓯᕆᓗᒍ ᐅᖅᓱᒃᓴᐃᑦ ᐊᑦᑕᓇᖅᑐᖅᑖᓪᓗ ᐊᑐᖅᑕᐅᓂᐊᕐᓂᖏᑦ

ᓱᓇᒧᑦ ᐅᖅᓱᒃᓴᒡᒋᐊᖅ ᐊᑐᓚᐅᓂᐊᖅᐸ	ᖃᓄᐃᑦᑐᓪᓚᕆᐅᕙ ᐅᖅᓱᒃᓴᒡᒋᐊᖅ	ᖃᑦᓯᐅᕙᑦ ᐅᖅᓱᒃᓴᖃᐅᑏᑦ	ᐆᒃᓴᐅᑉ ᐃᒪᖃᖅᑎᒋᔫᓐᓇᕐᓂᖓ	ᑲᑎᓪᓗᒍ	ᐆᒃᓴᐃᑦ ᐊᒥᓲᓂᖏᑦ	ᓱᓇᒧᑦ ᐊᑐᓚᐅᓂᐊᖅᐸ
Gasoline	fuel	1	1	1	Liters	Transport by local partners (details NA at this time)

ᐃᒪᖅ ᐊᑐᖅᑕᐅᔮᖅᑐᖅ

ᐅᓪᓗ ᑕᒫᖅ ᐊᑐᖅᑕᐅᓂᐊᖅᑐᖅ	ᖃᔪᖅ ᐃᒥᖅᑕᖃᑦᑕᕐᓂᐊᖅᐸᑦ	ᓇᑭᑦ ᐃᒥᖅᑕᖃᑦᑕᕐᓂᐊᖅᐸᑦ
0		

ᐊᑲᑕᔪᑦ

ᐊᑲᑕᔪᓪᓗᓂᐊᕐᓂᖅ

ᐱᓪᓗᐊᓗᐅᔾᔨᒪᔨᒍᑦ ᐱᓪᓗᐊᓗᐅᔾᔨᓂᐊᖅᑐᖅ	ᖃᓄᐃᔅᑐᖅ ᐊᑲᑕᔪᖅ	ᖃᓄᐃᑎᒋ ᐊᑲᑕᔪᑦ ᓴᖅᑭᐊᓂᐊᖅᑐᓗᐅᔾᔭᑦ	ᖃᓄᐃᓂᖅ ᐊᑲᑕᖅᑕᐅᓂᐊᖅᐸ	ᓴᓪᓕᒪᖅᓴᐅᑎᑲᓴᑲᓄᖅᓂᐅᓂᐊᖅᑐᑦ
Information is not available				

ᐊᓵᑎᒥᐅᑕᓂᑦᑐᑦ ᐊᑲᑐᖅᑕᐅᓯᒪᔨᑦ

We will be staying in the communities, either at hotel or rented house. We will hire guides and outfitters. We will also give invited presentations at HTO and/or schools. No predicted impact on the communities other than positive ones, like engagement, training, employment and use of infrastructure. At the field sites (marine / nearshore) sampling will occur using one of the following: a portable underwater ROV (camera) with very small capacity for sample collection (water, sediment, organisms) or locally owned fishing boats and gear. Minimal disturbance will therefore occur (under the supervision of local partners). In addition, local partners may contribute fishing by-catches (e.g. sediment or benthic invertebrates) on an opportunistic basis; should this type of sampling occur, it would therefore not be associated with any disruptions other than typical of community harvesting activities (following their own permits as applicable, and with/without compensation, as agreed).

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

ᒫᓐᓇ ᐊᑭᑎᐅᑉ ᖃᓄᐃᑦᑐᓪᓚᕆᐅᓂᖓ: ᓄᓇᐅᑉ ᖃᓄᐃᑦᑑᓂᖓ

ᒫᓐᓇ ᐊᑭᑎᐅᑉ ᖃᓄᐃᑦᑐᓪᓚᕆᐅᓂᖓ: ᐆᒪᔪᖅᑕᖅᖃᕐᓂᖓ

ᒫᓐᓇ ᐊᑭᑎᐅᑉ ᖃᓄᐃᑦᑐᓪᓚᕆᐅᓂᖓ: ᐃᓄᓕᕆᓂᕐᒨᖓᔪᑦ-ᐱᕙᓪᓕᐊᔪᓕᕆᓂᕐᒨᖓᔪᑦ

Miscellaneous Project Information

ᓇᓗᓇᐃᖅᑕᐅᓂᖏᑦ ᐊᒃᑐᖅᑕᐅᓯᒪᔪᑦ ᖃᓄᐃᑦᑑᓂᖏᑦ ᐸᓚᐅᒥᔾᔪᓯᖅᑕᐅᓂᐊᕐᓂᖏᓪᓗ

Cumulative Effects

Impacts

ᓄᓗᓄᐃᖅᑕᐅᓂᖅᑎᑦ ᐊᐸᑎᒥᐅᑕᓯᑦᑐᑦ ᐊᑲᑐᖅᑕᐅᓱᒪᔪᑦ

	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																									
-		-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
ᐅᔾʕᑲᑦᑕᕐᓂᖅ																									
Sampling sites		-	-	-	-	-	-	-	-	N	-	-	-		-	-	-	N	-		-	P	-	-	-
ᐃᑐᑦᑎᓇᓂᖅ																									
-		-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-		-	-	-	-	-

(P = ᐊᑲᐅᔨᕈᑎᐊᕐᓂᖅᑐᑦ, N = ᐊᑲᐅᖅᑎᕐᕕᑕᐅᐊᕐᓂᖅᑐᑦ ᕿᓚᐅᒥᕐᕕᓯᑦᑐᖅᑕᐅᐊᕐᓂᖅᑐᑦ ᓚᓪ, M = ᐊᑲᐅᖅᑎᕐᕕᑕᐅᐊᕐᓂᖅᑐᑦ ᕿᓚᐅᒥᕐᕕᓯᑦᑐᖅᑕᐅᐊᕐᓂᖅᑐᑦ ᓚᓪ, U = ᖁᑲᐅᔪᒃᓂᖅᑎᑦᑐᖅ)

ᓇᒋᒪᖏᕆᖅ ᐱᓕᓇᐊᓇᓵᐅᐊᔪᖅ

List of Project Geometries

1	polyline	Vicinity of Sanikiluaq in Belcher islands: we have obtained information on sites of interest from partners
2	polyline	Vicinity of Grise Fiord: that has not been explored yet
3	point	Sanikiluaq: we have had two preliminary on-site meetings and exchanges with local partners ()HTA members and High School)
4	point	Grise Fiord: a visit and on-site meeting with local partners (HTA members, outfitter) occurred in 2021