



**Demande de la CNER faisant l'objet d'un examen préalable #125145**

**ArcticNet Project 1: The Northwest Passage at the end of the Last Glaciation. ArcticNet Project 2: River sampling during 2017 ArcticNet expedition**

Type de demande :	New
Type de projet:	Recherche
Date de la demande :	5/29/2017 3:22:35 PM
Period of operation:	from 2017-07-13 to 2017-10-12
Autorisations proposées:	from 2017-05-25 to 2017-10-12
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**DÉTAILS**

**Description non technique de la proposition de projet**

**Anglais:** These two ArcticNet subprojects constitute an amendment to the ArcticNet ship-based scientific license (NIRB# 06YN071) for activities conducted from the Canadian research icebreaker CCGS Amundsen. The proposed activities include river and shore sampling. Descriptions of both sub-projects are attached as PDFs containing English, Inuktitut and Inuinnaqtun versions. Project 1: Project Title: The Northwest Passage at the end of the Last Glaciation ArcticNet Researcher: Dr. Mark Furze, MacEwan University Project Location: Maxwell Bay, Devon Island, Nunavut Planned activities: Beach surveys on foot and collection of a small number of empty beach shells (5-10) (no excavations required) for radiocarbon dating. Dates: 1 day between 30 July and 10 August 2017 Project 2 Project title: River sampling during 2017 ArcticNet expedition ArcticNet Researcher: Dr. Cara Manning, University of British Columbia Project location: Rivers in the Kitikmeot and Qikiqtaaluk regions, Nunavut (list of rivers provided in the attached proposal; A few (not all) of these sampling locations will be selected from this list during the ArcticNet research cruise, based on factors such as weather). Planned activities: Collection of river water samples for chemical analysis, including measurement of greenhouse gases. Dates: Depending on the Amundsen cruise track, between 30 July and 17 August 2017.

**Français:** N/A

**Inuktitut:** ArcticNet subprojects constitute an amendment to the ArcticNet ship-based scientific license (NIRB# 06YN071) for activities conducted from the Canadian research icebreaker CCGS Amundsen. The proposed activities include river and shore sampling. Descriptions of both sub-projects are attached as PDFs containing English, Inuktitut and Inuinnaqtun versions. Project 1: Project Title: The Northwest Passage at the end of the Last Glaciation ArcticNet Researcher: Dr. Mark Furze, MacEwan University Project Location: Maxwell Bay, Devon Island, Nunavut Planned activities: Beach surveys on foot and collection of a small number of empty beach shells (5-10) (no excavations required) for radiocarbon dating. Dates: 1 day between 30 July and 10 August 2017 Project 2 Project title: River sampling during 2017 ArcticNet expedition ArcticNet Researcher: Dr. Cara Manning, University of British Columbia Project location: Rivers in the Kitikmeot and Qikiqtaaluk regions, Nunavut (list of rivers provided in the attached proposal; A few (not all) of these sampling locations will be selected from this list during the ArcticNet research cruise, based on factors such as weather). Planned activities: Collection of river water samples for chemical analysis, including measurement of greenhouse gases. Dates: Depending on the Amundsen cruise track, between 30 July and 17 August 2017.

[illegible]

Proposed term of operation: from 2017-05-25 to 2017-10-12

## Activités

### Activités

Emplacement	Type d'activité	Statut des terres	Historique du site	Site à valeur archéologique ou paléontologique	Proximité des collectivités les plus proches et de toute zone protégée
River at Black Cliffs	Sampling sites	Crown	Collection of river water samples for chemical analysis, including measurement of greenhouse gases.	N/A	Located in Sirmilik National Park on Bylot Island
Glacier River	Sampling sites	Crown	Collection of river water samples for chemical analysis, including measurement of greenhouse gases.	N/A	Located in Sirmilik National Park on Bylot Island
Charles York River	Sampling sites	Crown	Collection of river water samples for chemical analysis, including measurement of greenhouse gases.	N/A	Located in Sirmilik National Park on Bylot Island
Creswell River	Sampling sites	Inuit Owned Surface Lands	Collection of river water samples for chemical analysis, including measurement of greenhouse gases.	N/A	N/A
Cunningham River	Sampling sites	Inuit Owned Surface Lands	Collection of river water samples for chemical analysis, including measurement of greenhouse gases.	N/A	N/A
River on Devon Island	Sampling sites	Crown	Collection of river water samples for chemical analysis, including measurement of greenhouse gases.	N/A	N/A
Ellice River	Sampling sites	Inuit Owned Surface Lands	Collection of river water samples for chemical analysis, including measurement of greenhouse gases.	N/A	N/A
Freshwater Creek	Sampling sites	Inuit Owned Surface Lands	Collection of river water samples for chemical analysis, including measurement of greenhouse gases.	N/A	Cambridge Bay
Garnier River	Sampling sites	Inuit Owned Surface Lands	Collection of river water samples for chemical analysis, including measurement of greenhouse gases.	N/A	N/A
Jayko River, just upstream of weir	Sampling sites	Inuit Owned Surface Lands	Collection of river water samples for chemical analysis, including measurement of greenhouse gases.	N/A	N/A
Le Feuvre Inlet (East Side)	Sampling sites	Crown	Collection of river water samples for chemical analysis, including measurement of greenhouse gases.	N/A	N/A
Mecham River	Sampling sites	Inuit Owned Surface Lands	Collection of river water samples for chemical analysis, including measurement of greenhouse gases.	N/A	Resolute Bay
Pasley River	Sampling sites	Inuit Owned Surface Lands	Collection of river water samples for chemical analysis, including measurement of greenhouse gases.	N/A	N/A
Saaqu River	Sampling sites	Crown	Collection of river water samples for chemical analysis, including measurement of greenhouse gases.	N/A	N/A
Simpson River	Sampling sites	Crown	Collection of river water samples for chemical analysis, including measurement of greenhouse gases.	N/A	N/A
Tingmeak River	Sampling sites	Inuit Owned Surface Lands	Collection of river water	N/A	N/A

			samples for chemical analysis, including measurement of greenhouse gases.		
Shore survey Maxwell Bay	Sampling sites	Crown	Beach surveys on foot and collection of a small number of empty beach shells (5-10) (no excavations required) for radiocarbon dating.	N/A	N/A

#### Engagement de la collectivité et avantages pour la région

Collectivité	Nom	Organisme	Date de la prise de contact
Information is not available			

#### Autorisations

##### Indiquez les zones dans lesquelles le projet est situé

Kitikmeot  
North Baffin

#### Autorisations

Organisme de régulation	Description des autorisations	État actuel	Date de l'émission/de la demande	Date d'échéance
Institut de recherche du Nunavut	ArcticNet multiyear license renewal 0601016R-M	Applied, Decision Pending		2018-03-31
Parcs Canada	3 rivers are located in Sirmilik National Park on Bylot Island	Applied, Decision Pending		
Service canadien de la faune	3 river sampling sites are located in Queen Maud Gulf Migratory Bird sanctuary	Applied, Decision Pending		
Pêches et Océans Canada	ArcticNet 2017 Scientific Licence S-17/18-1006-NU	Active	2017-05-23	2018-05-23
Autre	Nunavut Impact Review Board ArcticNet license #06YN071	Active		2018-03-31
Autre	NPC File # 148573	Applied, Decision Pending		

Utilisation de matériel

Équipement à utiliser (y compris les perceuses, les pompes, les aéronefs, les véhicules, etc.)

Type d'équipement	Quantité	Taille – Dimensions	Utilisation proposée
CCGS Amundsen Helicopter Bell 429	1	N/A	The helicopter of the Coast Guard research icebreaker CCGS Amundsen will be used to access the sampling sites

Décrivez l'utilisation du carburant et des marchandises dangereuses

Décrivez l'utilisation de carburant :	Type de carburant	Nombre de conteneurs	Capacité du conteneur	Quantité totale	Unités	Utilisation proposée
Information is not available						

Consommation d'eau

Quantité quotidienne (m3)	Méthodes de récupération de l'eau proposées	Emplacement de récupération de l'eau proposé
0		

Déchets

Gestion des déchets

Activités du projet	Type des déchets	Quantité prévue	Méthode d'élimination	Procédures de traitement supplémentaires
Information is not available				

Répercussions environnementales :

The landscape, flora, and fauna will not be altered in any way. No waste will be produced and no structures of any kind will be erected.

Description de l'environnement existant : Environnement physique

Description de l'environnement existant : Environnement biologique

Description de l'environnement existant : Environnement socio-économique

Identification des répercussions et mesures d'atténuation proposées

Répercussions cumulatives

Impacts

Identification des répercussions environnementales

		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
Construction	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Exploitation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Désaffectation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

(P = Positive, N = Négative et non gérable, M = Négative et gérable, U = Inconnue)

Project Map

