Nunavummi Qaujisaqtulirijikkut / Nunavut Research Institute
959-A Nunavut Dr. Iqaluit, NU X0A 3H0 phone:(867) 979-7279 e-mail: mosha.cote@arcticcollege.ca

SCIENTIFIC RESEARCH LICENSE

LICENSE # 04 017 26R-M

ISSUED TO: Milla Rautio
Laboratory of Aquatic Sciences
Université du Québec à Chicoutimi
555, boulevard de l'Université
Chicoutimi, Quebec
G7H 2B1 Canada

TEAM MEMBERS: S. Masure, O.Garandel, C.A-Leduc, S.Peters, E.Imbeau, G.Ferland

AFFILIATION: Université du Québec à Chicoutimi

TITLE: Arctic Freshwater Biodiversity in Cambridge Bay.

OBJECTIVES OF RESEARCH:
In 2026, field activities will continue following the standardized FROST sampling protocols to monitor season dynamics of Arctic Freshwater ecosystems near Cambridge Bay, Nunavut. Sampling campaigns will be conducted in April, August and November 2026 in Greiner, Pelly, and Inuhuktok lakes to capture conditions during the late winter under ice cover, the open water summaer period, and the autumn transition before freeze up. During each campaign, we will measure key physical, chemical and biological variables including water temperature, dissolved oxygen, light penetration, nutrients, plankton communities and fish and maintain automated sensors recording year-round environmental conditions. In addition, a targeted field study will be conducted in July 2026 in a river connecting Kitigak Lake to the ocean. Local community members have reported that the river has become partly murky due to permafrost thaw, raising concerns about potential impacts on fish habitat and food resources. To address these concerns, we will collect water samples and benthic macroinvertabrates to assess changes in water quality and evaluate the nutritional quality of fish prey.

TERMS & CONDITIONS:
The holder of the license will be bound by the terms and conditions of the Nunavut Impact Review Board Screening Decision Report (NIRB File # 14YN034) and the Department of Culture & Heritage archaeological sites terms and conditions. These terms and conditions will form part of this license.

DATA COLLECTION IN NU:
DATES: April 20, 2026-December 31, 2026
LOCATION: Cambridge Bay, Grenier Lake

Scientific Research License 04 017 26R-M expires on December 31, 2026
Issued at Iqaluit, NU on March 25, 2026

James Shirley
Science Advisor

NUNAVUT SCIENTISTS ACT
SCIENTIFIC RESEARCH LICENCE