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SCIENTIFIC RESEARCH LICENSE

LICENSE NUMBER 04 015 24R-M

ISSUED TO: Milla Rautio
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TEAM MEMBERS: F. Bouchard, T.K-Arachchi,
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TITLE: Arctic Freshwater Biodiversity in Cambridge Bay.

OBJECTIVES OF RESEARCH:
This project brings together Canadian laboratories in ecology and geomorphology, along with northern collaborators, to develop an improved, integrated understanding of Inuit Nunangat lakes and rivers on Southern Victoria Island and their responses to climate change. Specifically, we will undertake detailed studies on processes that affect the transfer of carbon to the lakes and rivers from the thawing permafrost and how it affects energy, resources and contaminants in Arctic Lake food webs. We measure carbon, nutrients, algae, lipids and mercury, and make the link to higher trophic levels by way of studies on zooplankton and macroinvertebrate communities. We combine limnological and geomorphological approaches to estimate how much the freshwaters are influenced by the thawing permafrost and what is the future direction of change in different ecosystem variables.

TERMS & CONDITIONS:
The holder of the license will be bound by the terms and conditions of the Nunavut Impact Review Board Screening Decision Report (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: June 14,2024 to August 31,2024
LOCATION: Cambridge Bay, Grenier Lake

Scientific Research License 04 015 24R-M expires on December 31,2024
Issued at Iqaluit, NU on June 4,2024

Mosha Cote
Science Administration
Officer

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