

**SCIENTIFIC RESEARCH LICENSE**

LICENSE NUMBER 04 008 23R-M

**ISSUED TO:**

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**TEAM MEMBERS:**

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**TITLE:** Arctic Freshwater Biodiversity in Cambridge Bay.

**OBJECTIVES OF RESEARCH:**

This project brings together Canadian laboratories in ecology and paleolimnology, along with northern collaborators, to develop an improved, integrated understanding of Inuit Nunangat lakes on Southern Victoria Island and their responses to climate change. Specifically, we will undertake detailed studies on processes that affect the transfer of energy, resources, and contaminants in Arctic Lake food webs. We measure nutrients, algae, and mercury, and make the link to higher trophic levels by way of studies on zooplankton and macroinvertebrate communities. We combine contemporary and paleolimnological approaches to estimate how much the lakes have changed and what is the future direction of change in different ecosystem variables. A key novelty in our research is that we extend the usual summer research focus into winter to address questions of winter resources and habitat conditions in the warming climate.

**TERMS & CONDITIONS:**

The holder of the licence will be bound by the terms and conditions of the Nunavut Impact Review Board Screening Decision Report and the Department of Culture & Heritage archaeological sites terms and conditions. These terms and conditions will form part of this licence.

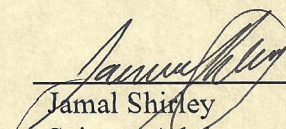
**DATA COLLECTION IN NU:**

**DATES:** April 1,2023 to December 31,2023

**LOCATION:** Cambridge Bay, Grenier Lake

Scientific Research License 04 008 23R-M expires on December 31,2023

Issued at Iqaluit, NU on January 31,2023

  
Jamal Shirley  
Science Advisor

