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# Nunavummi Qaujisaqtulirijikcut / Nunavut Research Institute

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## SCIENTIFIC RESEARCH LICENSE

LICENSE # 04 016 20N-M

ISSUED TO: Jules Blais  
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TEAM MEMBERS: M. Bell, J. Kissinger

AFFILIATION: University of Ottawa

TITLE: Long-term changes in bird populations near Cambridge Bay based on lake sediment records

### OBJECTIVES OF RESEARCH:

Our short term objective is to show how bird populations around Cambridge Bay and the Ahiak Migratory Bird Sanctuary have changed over time using lake sediments as a natural archive. Long term, we will integrate bird population histories with recent research and indigenous knowledge to investigate the stability of migratory bird populations and their reliability as a food source in the North. Rationale: Sediment is a natural archive because it slowly accumulates at the bottom of lakes and it contains animal and plant material from the time it was deposited. Thus sediment is a record of environmental changes. When birds colonize the area, they fertilize the water, and these changes are recorded in the chemical and biological composition of the lake sediment layers, which can be used to show the history of bird populations.

### 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. The license holder will abide by all special public health protection measures imposed by Nunavut's Chief Medical Officer of Health in response to the Covid-19 Pandemic, including restrictions on non-essential travel to Nunavut. These terms and conditions will form part of this licence.

### DATA COLLECTION IN NU:

DATES: June 22, 2020-July 30, 2020

LOCATION: Cambridge Bay & Region

Scientific Research License 04 016 20N-M expires on December 31, 2020

Issued at Iqaluit, NU on June 29, 2020



Mary Ellen Thomas  
Science Advisor

