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# Nunavummi Qaujsaqtulirijikkut / Nunavut Research Institute

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## SCIENTIFIC RESEARCH LICENSE

LICENSE # 02 037 18R-M

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AFFILIATION: University of Alberta

TITLE: Airborne Geophysical Characterization of the Hypersaline Subglacial Lake Complex Beneath Devon Ice Cap and their Surrounding Subglacial Environment

### OBJECTIVES OF RESEARCH:

A recent study has identified evidence for a hypersaline subglacial lake complex underneath the Devon Ice Cap, Canadian Arctic, Nunavut. The purpose of this project is to collect data to derive the full spatial extent of these subglacial lakes, to characterize their surrounding bedrock conditions (i.e. the presence of subglacial water, the nature of the sediment/rock) and to derive their hydrological connectivity with the surrounding subglacial environment. Knowledge of the full extent of the subglacial lakes and the surrounding hydrological conditions, along with glacier surface and ice thickness measurements are important input parameters for modeling efforts in order to understand the physical and chemical characteristics of these hypersaline subglacial lakes.

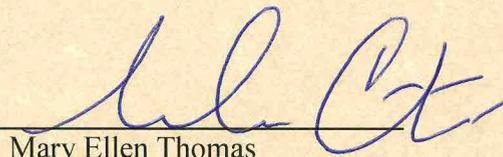
### TERMS & CONDITIONS:

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: May 25, 2018-June 13, 2018  
LOCATION: Devon Ice Cap, Ellesmere Island, Axel Heiberg Island

Scientific Research License 02 037 18R-M expires on December 31, 2018  
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for   
Mary Ellen Thomas  
Science Advisor

