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# Nunavummi Qaujisaqtulirijiklut / Nunavut Research Institute

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## SCIENTIFIC RESEARCH LICENSE

LICENSE # 04 007 19R-M

ISSUED TO: Kristina Brown  
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TEAM MEMBERS: A. Langlois

AFFILIATION: Institute of Ocean Sciences

TITLE: Connecting Snow Melt to River Discharge in the Kitikmeot Region and Northwest Territories

### OBJECTIVES OF RESEARCH:

An increase in temperatures, increased frequency of extreme weather events, and shifts in the timing of freeze-thaw conditions will directly impact the Arctic hydrological cycle. In particular, changes to the timing of snow accumulation and subsequent melt on land will influence the delivery of freshwater to river systems and, ultimately, to the ocean. This project is motivated by a need to better characterize and quantify the impacts of changing snow conditions on river discharge within the Kitikmeot Region and Northwest Territories in order to better understand freshwater contributions to the ocean under a changing 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: March 01, 2019-July 01, 2019

LOCATION: Cambridge Bay, Kugluktuk

Scientific Research License 04 007 19R-M expires on December 31, 2019

Issued at Iqaluit, NU on December 19, 2018



Mary Ellen Thomas  
Science Advisor

