

Nunavummi Qaujisaqtulirijikkut / Nunavut Research Institute

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SCIENTIFIC RESEARCH LICENSE

LICENSE # 02 024 16R-M

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TEAM MEMBERS: C. Omelon, M. Ecclestone, D. Anderson, 1TBA

AFFILIATION: McGill University

TITLE: Permafrost Hydrology and Environmental Significance of Perennial Springs in the
Expedition Fiord Area, Axel Heiberg Island

OBJECTIVES OF RESEARCH:

The aims of this research are (1) to determine the origin of perennial spring flow, (2) to understand and explain processes related to the interaction between groundwater and permafrost, and (3) to describe the microbial communities associated with springs, lakes and permafrost. These efforts have contributed to a better understanding about the limits of life in cold climates and about unique physical processes that are occurring in the Arctic. This is the only research on cold perennial springs being conducted in the high Arctic. These springs have no commercial value and our research is driven entirely by scientific questions.

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 Youth archaeological sites terms and conditions. These terms and conditions will form part of this licence.

DATA COLLECTION IN NU:

DATES: April 17, 2016-July 30, 2016

LOCATION: Axel Heiberg Island

Scientific Research License 02 024 16R-M expires on December 31, 2016

Issued at Iqaluit, NU on March 01, 2016



Mary Ellen Thomas
Science Advisor

