

SCIENTIFIC RESEARCH LICENSE

LICENSE NUMBER 01 028 24N-M

ISSUED TO: Jamie Evic
Municipality of Pangnirtung
P.O. Box 253
Pangnirtung, Nunavut
X0A 0R0 Canada

TEAM MEMBERS: B.Roy,A.Colombo,T.Bolisetti

TITLE: Bursting the Banks:Dealing with Flooding Due to Climate Change in the Arctic Hamlet of Pangnirtung

OBJECTIVES OF RESEARCH:

The Municipality of Pangnirtung has recently received funding from CIRNAC under the Climate Change preparedness in the North program to conduct Scientific Research. The proposed Research aims to better characterize the hydrology of Pangnirtung, especially the role of snow regime and its impact on flash flooding and drainage in the Duval River watershed and the community of Pangnirtung as climate changes. The project also seeks to learn more about the ground thermal/hydraulic regime at select points near the river and bridge. It builds on an existing NRC- funded project, which involves water flow and quality monitoring of the Duval River including assessing the resilience of the Hamlet's water supply. The proposed scientific Research involves mathematical modelling of the local hydrology in the Duval River watershed. This will be closely supported by field measurements, including snow depth at select locations, weather data, ground temperature at specific locations and possible aerial imageries of the watershed.

TERMS & CONDITIONS:

The holder of the licence will be bound by the terms and conditions of the Nunavut Impact Review Board Screening Decision Report (24YN022) 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: July 18, 2024 to December 31, 2024

LOCATION: Hamlet of Pangnirtung

Scientific Research License 01 028 24N-M expires on December 31,2024

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James Shirley
Science Advisor

