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# Nunavummi Qaujsaqtulirijikkut / Nunavut Research Institute

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## SCIENTIFIC RESEARCH LICENSE

LICENSE # 01 064 10N-M

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AFFILIATION: Department of Geography

TITLE: Climate change impacts on river flows, sediment loads, and water quality

### OBJECTIVES OF RESEARCH:

The aim of the research project is to develop knowledge to help understand how climate change will affect river flows, sediment loads and water quality. In particular, we will combine measurements of water level and water quality in the rivers with studies of lakes and lake sediments to reconstruct past river flows. We are also interested in how climate change can affect floods. This is similar to work that we have carried out for many years in the High Arctic on Melville Island. This project has been carried out for eight years and is one of the longest records of it's type. Our hope is that we can establish a similar, long term study near Pangnirtung to serve as an important source of information and knowledge for the residents and governments to predict future changes to the rivers.

### TERMS & CONDITIONS:

The holder of the licence will be bound by the terms and conditions (attached) from the Nunavut Impact Review Board Screening Decision Report and by the Department of Culture, Language, Elders and Youth archeological sites terms and conditions. These terms and conditions will form part of this licence

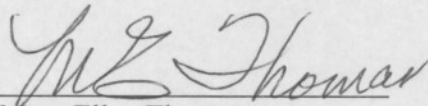
### DATA COLLECTION IN NU:

DATES: August 16, 2010-August 31, 2012

LOCATION: Aulattivijuaq River

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Mary Ellen Thomas  
Science Advisor

