

# Nunavummi Qaujisaqtulirijikkut / Nunavut Research Institute

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## SCIENTIFIC RESEARCH LICENSE

LICENSE # 03 010 21R-M

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AFFILIATION: University of Waterloo

TITLE: Stream Occupancy of Young-of-Year Arctic Grayling (*Thymallus arcticus*) and the Associated Impact from the Wastewater Treatment Facility in Baker Lake

### OBJECTIVES OF RESEARCH:

Stream occupancy of young-of-year arctic grayling *Thymallus arcticus* and the associated impact from the wastewater treatment facility in Baker Lake, Nunavut. Currently, the Hamlet of Baker Lake uses a passive wastewater treatment system, where wastewater is released through a series of tundra ponds/lakes and into Baker Lake. This type of system, which is common in Northern communities, takes advantage of natural biological processes and is only capable of providing primary treatment. As a result, relatively high levels of nutrients are released into the system, which can ultimately affect fish and fish habitat. Based on significant positive feedback from the community, an upgraded wastewater treatment facility is anticipated to be constructed in Baker Lake.

### 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. The license holder will abide by all special public health protection measures imposed by Nunavut's Chief Medical Officer of Health in response to the Covid-19 Pandemic, including restrictions on non-essential travel to Nunavut. These terms and conditions will form part of this licence.

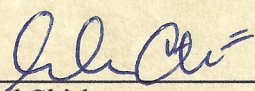
### DATA COLLECTION IN NU:

DATES: June 01, 2021-September 30, 2021

LOCATION: Baker Lake

Scientific Research License 03 010 21R-M expires on December 31, 2021

Issued at Iqaluit, NU on August 03, 2021

for   
Jamal Shirley  
Science Advisor

