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# Nunavummi Qaujsaqtulirijikkut / Nunavut Research Institute

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## SCIENTIFIC RESEARCH LICENSE

LICENSE # 02 027 13R-M

ISSUED TO: Steven Siciliano  
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TEAM MEMBERS: S.Hardy, M. Brummel, A. Guy, M. Ota,  
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AFFILIATION: University of Saskatchewan

TITLE: The fate and toxicity of Arctic soil pollutants: how humans poison Arctic soils and  
how Arctic soils poison humans.

### OBJECTIVES OF RESEARCH:

To determine how humans poison Arctic soils, we must first establish soil components critical for polar desert sustainability. Polar deserts cover a vast area of the islands in the Canadian Arctic but very little is known about the soil ecosystems of these deserts. I hypothesize that within the sorted circles present in Polar Deserts, there is a deep, productive soil horizon, called a Bhy. I hypothesize that these Bhy soils are a critical component of the Arctic deserts and are essential to the long term survival on these ecosystems.

### 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 and Heritage Archeological sites terms and conditions. These terms and conditions will form part of this licence.

### DATA COLLECTION IN NU:

DATES: July 05, 2013-August 25, 2013

LOCATION: Alexandra Fiord

Scientific Research License 02 027 13R-M expires on December 31, 2013

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Mary Ellen Thomas  
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