

SCIENTIFIC RESEARCH LICENSE

LICENSE # 04 001 27R-M

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AFFILIATION: Real Ice Development Company LTD.

TITLE: Real Ice- Field Test in Cambridge Bay, Nunavut, Canada

OBJECTIVES OF RESEARCH:

Real Ice will conduct a fourth winter field campaign on landfast sea ice near Cambridge Bay, continuing the localised seawater flooding research licensed in 2026. Winter operations will repeat the pumping methodology validated in previous seasons, saturating and freezing the insulating snowpack into conductive snow-ice to accelerate ice growth. Monitoring will continue through manual thickness and snow depth measurement, ice core salinity profiling, SIMBA thermistor chains, aerial drone photography, albedo measurement, and Sentinel-2 satellite imagery through the spring melt season. The campaign will additionally trial our autonomous underwater ice-thickening vehicle prototype to test the automated pumping operations. The vehicle operates beneath the ice within the established field site and uses acoustic communication. Community engagement continues through the EHTO, the Cambridge Bay Hamlet Council, and the Kitikmeot Inuit Association. Youth engagement is planned with the local high school, hosting students at the research site during winter testing.

TERMS & CONDITIONS:

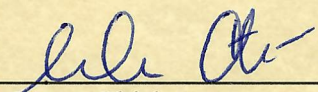
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DATA COLLECTION IN NU:

DATES: January 10, 2027-July 27, 2027

LOCATION: Bay of Iqaluktutiak

Scientific Research License 04 001 27R-M expires on December 31, 2027
Issued at Iqaluit, NU on September 09, 2026


James Shirley
Science Advisor

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