



## Executive Summary

The Anuriqjuak Nukkiksautiit Project (the Project) is a renewable energy development in Sanikiluaq, NU, that incorporates wind turbine generation with a Battery Energy Storage System (BESS) into the existing diesel generation plant. The Project proponent is Nunavut Nukkiksautiit Corporation (NNC), a wholly owned subsidiary of the Qikiqtaaluk Corporation focused on renewable energy development across the Qikiqtani Region that is beneficial to Inuit economically, socially, and environmentally. This Project Environmental Management Report (PEMR) has been developed on behalf of NNC by Sikumiut Environmental Management Limited (SEM) to document Project activities conducted in 2023, to fulfill Annual Report requirements and to satisfy conditions of approvals and authorizations that have been issued by the Government of Nunavut (GN), the Nunavut Impact Review Board (NIRB), and the Nunavut Water Board (NWB), among others. This report documents stakeholder engagement activities, construction progress, and provides an evaluation of conformance not only with legislation and approval conditions, but with NNC's own commitments to environmental and social responsibility as well. The style and format of the PEMR is intended to facilitate review of the Project by multiple regulatory agencies for which authorizations have been granted to date, including: NIRB, NWB, GN Community and Government Service (GN CGS), Hamlet of Sanikiluaq, Transport Canada (TC), NavCanada, Royal Canadian Air Force (RCAF), GN Department of Culture and Heritage (GN DCH), and Fisheries and Oceans Canada (DFO).

Throughout 2023, meaningful engagement was conducted with all stakeholders on the schedule, work plan, and resources required of the Project. Several community meetings, use of local equipment, labourers, environmental monitors, bear monitors, purchase of water and granular material, and use of local accommodations were carried out over the year of 2023. NNC also engaged with the utility Qulliq Energy Corporation (QEC) on the civil works related to the project such as the location of the foundation for the wind turbine, transmission line pole alignment, and route of the road and the Independent Power Production (IPP) agreement.

Multiple studies were conducted in 2023 prior to the construction season, including a visual archaeological survey of the Project area and an Acid Rock Drainage and Metal Leaching (ARD/ML) study of the Sanikiluaq quarry materials. The archaeological study identified several sites in proximity to the Project area, which were clearly marked in



the field with a 50-meter buffer zone, as required, to prevent any potential disturbance to these sites as part of Project work. Construction plans were updated to allow for these avoidance areas. The ARD/ML study indicated that the Sanikiluaq quarry represents a low risk for ARD/ML (Ecometrix, 2023).

In 2023, approximately 2.5 kilometers (km) of the access road subgrade was prepared, which included rough grading only. Construction personnel arrived onsite October 19, 2023 to verify ground conditions such that road development could be adjusted accordingly. This resulted in a reduction in the number of culverts required, from three as planned down to only one. Construction took place between October 20 to October 29, 2023. A Project Environmental/Wildlife Monitor was present onsite daily, and documented construction activities, water quality, wildlife sightings, and compliance with the Construction Environmental Protection Plan (EPP) as well as to Terms and Conditions of approvals and proponent commitments to environmental protection. Several Sanikiluaq residents and members of the Hunters and Trappers Association (HTA) provided bear monitoring services and coordinated with the Environmental/Wildlife Monitor closely. HTA members acting as bear monitors also assisted with historic site marking and shared traditional knowledge regarding wildlife present in the area, spring freshet patterns of the streams, and identified the absence of fish spawning in the streams that are planned for culvert installations.

Monitoring records indicated that spill response and containment kits were present onsite and readily available. No spills occurred during the 2023 construction season. Daily safety meetings with site personnel occurred, with no safety incidents reported during the 2023 construction season. The construction activities maintained appropriate buffers from waterbodies and materials were selected to ensure appropriate erosion control where avoidance was illogical. No instream works occurred during the 2023 construction season. Visual monitoring paired with sample results indicated that compliance with water quality thresholds were maintained throughout the construction period. Throughout the construction period, multiple Arctic fox sightings as well as several dens were observed. Sightings mostly occurred en route to the construction site or during the morning toolbox/safety meeting. Stop-work orders due to presence of sensitive wildlife were not necessary during the construction period. Construction occurred outside of the bird nesting season for Sanikiluaq, therefore nest avoidance buffers also were not required.



Nunavut Nukkiksautiit Corporation

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In 2024, the subgrade for the remaining 3 km of the access road will be prepared. Additional fill placement, geosynthetics placement, and final grading will also be completed in 2024. The schedule is subject to change/revision as the Project advances.

Overall, NNC has maintained compliance with permits, licences, approvals, authorizations, and agreements for the Project in 2023. Consistent with NNC's Project Environmental Management Program and Company Philosophy, NNC intends to continue to enhance current risk reduction and monitoring initiatives, introduce modifications where necessary, apply adaptive management, and collaborate with federal, territorial, and Hamlet governments, Inuit Organizations, other relevant organizations, and the public of Sanikiluaq in an open and transparent way to maintain Project compliance.