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Nunavut Nukkiksautiit Corporation

**Anuriqjuak Nukkiksautiit Project:
2023 Project Environmental Management Report**

Version: 0.0

Date: March 31, 2024

Anuriqjuak Nukkiksautiit Project

2023 Project Environmental

Management Report

Prepared for:

Nunavut Water Board
Nunavut Impact Review Board
Crown-Indigenous Relations and Northern Affairs Canada

Prepared by:

Sikumiut Environmental Management Limited
on behalf of
Nunavut Nukkiksautiit Corporation



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.



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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.

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Acronyms & Abbreviations

BESS	Battery Energy Storage System
CIRNAC	Crown-Indigenous Relations and Northern Affairs Canada
DFO	Fisheries and Oceans Canada
ECCC	Environment and Climate Change Canada
EPP	Environmental Protection Plan
GN	Government of Nunavut
GN CGS	Government of Nunavut Community and Government Services
GN DCH	Government of Nunavut Department of Culture and Heritage
km	kilometer
m	meter
MW	megawatt
NIRB	Nunavut Impact Review Board
NNC	Nunavut Nukkiksautiit Corporation
NPC	Nunavut Planning Commission
NTU	Nephelometric Turbidity Units
NU	Nunavut
NWB	Nunavut Water Board
PEMR	Project Environmental Management Report
QEC	Qulliq Energy Corporation
RCAF	Royal Canadian Air Force
SAR	Species at Risk
SARA	Species at Risk Act
SPRP	Spill Prevention and Response Plan
TC	Transport Canada
TSS	total suspended solids
WMMP	Wildlife Mitigation and Monitoring Plan
WMP	Waste Management Plan
WTG	Wind Turbine Generator



1.0 Introduction

Nunavut Nukiksautiit Corporation (NNC) is committed to the mitigation of the environmental impacts of construction activities for the Anuriqjuak Nukiksautiit Project (the Project). The Project is a renewable energy development in Sanikiluaq, Nunavut (NU), that incorporates wind turbine generation with a Battery Energy Storage System (BESS) into the existing diesel generation plant. This Project Environmental Management Report (PEMR) has been developed 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.

1.1 Project Environmental Management Program

Environmental management is necessary to help minimize environmental effects, track performance, and advance long-term environmental sustainability. Effective environmental management requires a shared commitment to the principles of sustainable development, pollution prevention, environmental protection and enhancement, and due diligence. NNC has established the Project Environmental Management Program (PEMP) to guide the implementation of its Corporate Environmental Policy as outlined below. The PEMP and associated management plans are ongoing endeavours, and apply from the onset of construction, throughout operations, and eventually during closure phases of the Project.

NNC's approach follows the sequence of "Policy – Planning – Implementation and Operation – Checking and Corrective Actions – Management Review Process" that must be in place to ensure that the Project is executed in an environmentally and socially acceptable manner, consistent with a continuous improvement cycle and employing adaptive management principles. This approach follows the Plan-Do-Check-Act (PDCA) model, which is an iterative, four-stage approach for achieving continual improvement. It involves systematically testing possible solutions, assessing the results, and implementing the ones that are shown to work.

This Project Environmental Management Report (PEMR) has been designed to document Project activities carried out in 2023 that demonstrate adherence to the PDCA model. 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.

1.1.1 Corporate Environmental Policy

NNC is committed to sustainable development while protecting environmental and human health. Key concepts of NNC's environmental, health and safety policy include:

- Protection of employees, the public and the environment;
- Compliance with all applicable authorizations, legislation, and regulations;
- Anticipation of future environmental protection requirements and implementation of associated provisions;
- Proactive collaboration with federal, territorial, and Hamlet governments, Inuit Organizations, other relevant organizations, and the public, on all aspects of environmental protection; and
- Inform Project personnel, regulators, management boards, appropriate governments (federal, territorial, Hamlet), Inuit Organizations, and the public of any changes at the site or with Project activities.

1.2 Project Overview

The Anuriqjuak Nukkiksautit Project is a renewable energy development in Sanikiluaq, NU, that incorporates wind turbine generation with a BESS into the existing diesel generation plant. The Project will involve the installation and operation of a single wind turbine generator (WTG) of 1 megawatt (MW) capacity located approximately 4.5 kilometers (km) south of the Sanikiluaq Airport. An existing community trail, approximately 4.5 km long, will be upgraded to a road and extended approximately 1.0 km to facilitate access to the construction site. An above ground transmission line will be constructed in close alignment with the access road, where possible. The BESS and microgrid controller system will be constructed near the Qulliq Energy Corporation (QEC) Power Plant in the community of Sanikiluaq. Once operational, the Project is expected to generate about 50 percent of the community's electricity demand. Wind energy will be sold to the QEC for integration into the local electrical grid. An overview of the Project layout is provided in Figure 1.1. Project construction of the access road began in late 2023. The Project construction process entails:

- **Site Preparation:** removing vegetation and other organic materials (i.e., grubbing) in areas to be developed into an access road and laydown areas and preparing laydown area(s).
- **Infrastructure Construction:** constructing an access road, WTG laydown area, and WTG foundation.



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- **Equipment Installation:** placing WTG steel foundation, tower sections and top (top tower, nacelle, and blades).
- **Balance of Plant:** placing a transmission line between the WTG and existing substation, installing a substation and BESS, and utility interconnection.
- **Commissioning & Testing** of the turbine and electrical infrastructure.



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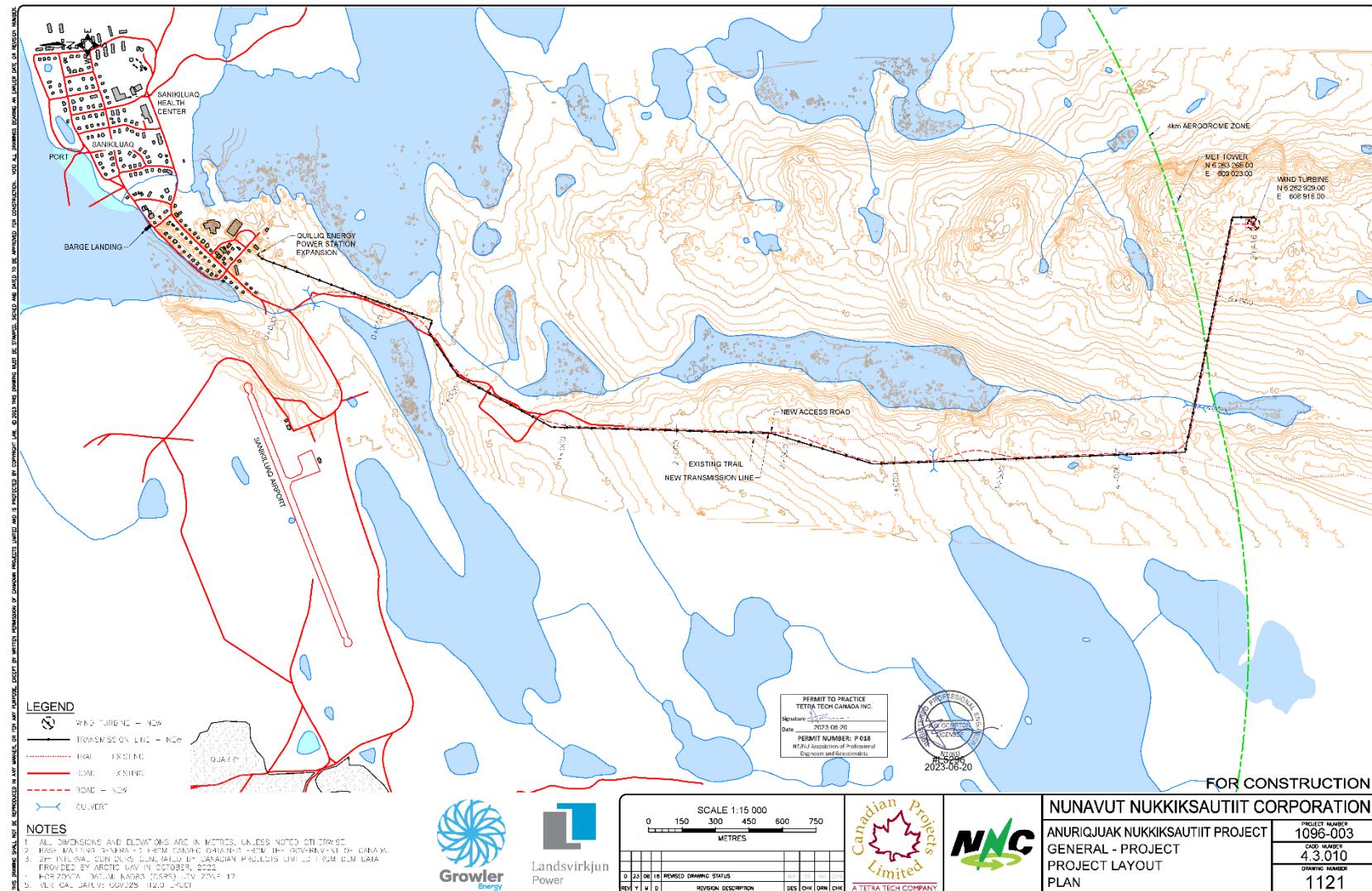


Figure 1.1 Project Layout as Issued for Construction in 2023.



1.3 Regulatory Context

Regulatory approvals, authorizations and permits are required for Project construction. The Sanikiluaq Anuriqjuak Project proposal was submitted to the Nunavut Planning Commission (NPC), the Nunavut Impact Review Board (NIRB), and the Nunavut Water Board (NWB) in 2022-2023 pursuant to the Nunavut Agreement (CIRNAC and Nunavut Tunngavik Inc., 2018). NPC determined that the project is outside the region of any applicable land use plan. NIRB determined that, while a review of the project was not required, project-specific terms and conditions were issued to NNC as a condition of release on November 4, 2022. NWB issued a Type B Water Licence, required for installation of culverts at water crossings during road development, to NNC on August 16, 2023. The basis for the screenings is NNC's Anuriqjuak Nukkiksautiit Project Proposal (NNC, 2022), which presented an assessment of potential environmental and socio-economic effects associated with the wind project.

1.3.1 Permits

NNC has obtained the following permits, licences, approvals, authorizations, and agreements, identified in Table 1.1. NNC and their representatives will construct and operate the project in accordance with terms and conditions of all regulatory approvals and applicable legislation. Additional approvals, authorizations and permits may be required prior to the operations phase of the Project. A comprehensive Permitting Registry has been developed for the Project under a separate cover (Appendix A). The Permitting Registry includes details regarding approval(s) status, copies of approvals as received, and conditions of approvals. Tables of concordance demonstrating adherence to approval conditions are provided in Section 4.

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Table 1.1 Approvals, Authorizations, and Permits for Construction.

Issuing/Approval Agency	Approval, Authorization or Permit	No.	Issued	Expiry
Municipal				
Hamlet of Sanikiluaq	Land Use Permit (LUP)	LUP-2023-003	Oct-16-2023	Oct-16-2024
Hamlet of Sanikiluaq	Letter of Support	NA	May-8-2023	NA
Hunters and Trappers Association of Sanikiluaq	Letter of Support	NA	May-28-2023	NA
Territorial				
Nunavut Planning Commission (NPC)	Conformity Determination	149782	Jul-21-2022	NA
Nunavut Impact Review Board (NIRB)	Screening Decision Terms and Conditions	22XN052	Nov-4-2022	NA
Nunavut Water Board (NWB)	Water Licence	8BW-ANU2333	Aug-16-2023	Aug-15-2033
Government of Nunavut Department of Culture and Heritage (GN DCH)	Class 1 Nunavut Territory Archaeologist Permit	2023-63A	Jun-30-2023	Dec-31-2023
GN Department of Economic Development and Transportation	Approval Letter Sanikiluaq Airport	NA	Aug-2-2023	NA
GN Community and Government Services (GN CGS)	Land Application Approval	SANI-265(40-2)22-001	Feb-2-2023	Feb-2-2024
Federal				
Fisheries and Oceans Canada (DFO)	Letter of Recommendations in response to Request for Review	23-HCAA-00697	Apr-28-2023	NA
NAVCanada	Letter of No Objection	23-1639	Aug-16-2023	Feb-16-2025
Transport Canada (TC)	Aeronautical Assessment Form for Obstruction Evaluation	2023-184	May-4-2023	Oct-27-2024
Royal Canadian Air Force (RCAF)	Letter of Non-Objection in response to Wind Turbine Impact Assessment	23-1639	May-1-2023	May-1-2025



1.4 Organization of the Project Environmental Management Report

This PEMR was developed to document Project activities carried out in 2023 that demonstrate NNC's responsible approach to Project development. 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 regulatory agencies for which authorizations appearing in Table 1.1 require an annual report. Brief descriptions of where to find certain types of information within the PEMR are as follows:

Section 1.0 is an introduction to the Project and the PEMR, including the purpose and objectives of the PEMP, a list of authorizations and approvals, and the organization of the report.

Section 2.0 provides a description of Engagement strategies and objectives, activities carried out to engage with Inuit living in Sanikiluaq in 2023, and planned engagement activities for 2024.

Section 3.0 provides an update on the progress of Project construction activities in 2023, and an overview of environmental monitoring during the construction season.

Section 4.0 describes the methods used to assess compliance with terms and conditions of approvals. Each approval is organized by issuing agency within the following subsections:

- 4.2 NIRB
- 4.3 NWB
- 4.4 GN CGS
- 4.5 Hamlet of Sanikiluaq
- 4.6 TC, NavCanada, and RCAF
- 4.7 GN DCH
- 4.8 DFO

Section 5.0 serves as an index of management plans pertaining to this phase of the Project and indicates the most recent versions of each.

Section 6.0 lists key Project personnel and their roles.

Section 7.0 presents a list of references consulted in the creation of the PEMR.



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Section 8.0 is a signature page for persons responsible for the PEMR.

Supporting information and documents are appended to the PEMR.

2.0 Engagement Activities

2.1 Engagement Planning and Objectives

The Stakeholder Engagement Plan (SEP), found in Appendix F, aims to ensure a thorough understanding of concerns raised by affected parties, mitigate potential project impacts, and promote collaborative project planning and consensus building. NNC intends to follow locally developed protocols and work with Inuit Governments and Organizations, Beneficiaries of the Nunavut Agreement, and all stakeholders throughout all project planning stages.

The SEP outlines the intention to engage with affected Inuit Governments and Organizations, Beneficiaries of the Nunavut Agreement, and all other stakeholders throughout various project stages.

The plan aims to:

- **Establish Relationships:** identify and connect with all key stakeholders involved in or potentially affected by the project.
- **Share Information:** ensure relevant information about the project's impacts is transparently communicated.
- **Understand Concerns:** actively seek and comprehend concerns, potential impacts, and the views of affected parties.
- **Take a Collaborative Approach:** promote collaboration at every stage of the project, emphasizing cooperation and mutual involvement.
- **Sustain Engagement:** commit to ongoing, appropriate levels and types of engagement throughout the project's life cycle.

It is crucial to acknowledge and incorporate Inuit Qaujimajatuqangit (IQ) early in the planning stages, respecting agreements for its use and protection. Additionally, the plan emphasizes NNC's commitment to responding to concerns and working together with potentially affected parties to find solutions.

This approach prioritizes respectful, inclusive, and ongoing engagement with Inuit Governments and Organizations, Beneficiaries of the Nunavut Agreement, and all other potentially impacted stakeholders, aiming for consensus-building and effective project planning.

NNC is committed to a continuous engagement process throughout the Project's lifespan involving iterative steps, enabling ongoing collaboration and the evolution of relationships. Permittees and licensees are mandated to adhere to the approved SEP throughout the



project's duration, actively collaborating on any necessary modifications to the plan as the project progresses.

NNC is dedicated to recording all engagement activities related to the Project. The outcomes of all engagement activities are documented and any concerns with affected parties are addressed.

The documentation of engagement activities will be comprehensive, with evidence of engagement activities conducted before an application and during the entirety of the project. It will include a summary of crucial concerns, changes made to the proposed project based on feedback, questions and answers, and any lingering unresolved issues. This record aims to demonstrate that early engagement was conducted in good faith, with all reasonable measures taken to consider and integrate the viewpoints of affected parties into the application or submission.

NNC acknowledges potential difficulties in engagement, addressing such instances on a case-by-case basis. The engagement plan, a forward-looking document, details the timing and approaches for engagement with each affected party throughout the Project's lifespan. It should align with the Project's scope, scale, and context, with more impactful activities necessitating more engagement.

2.2 2023 Engagement Activities

NNC demonstrated their commitment to Stakeholder Engagement by carrying out various activities related to the Project in 2023. Table 2.1 below provides details on stakeholder engagement activities in 2023.

Throughout 2023, with the assistance of SEM and Growler Energy, NNC engaged with stakeholders on the schedule, work plan, and resources required by the Project. As detailed in Table 2.1, 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 Energy Purchase Agreement (EPA) agreement (Murray, 2023; Nunavut Nukiksautiit Corporation, 2023).

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Table 2.1 Engagement Activities Conducted in 2023.

Date	Form of Engagement	Participants	Summary	Records
January 2023	Hamlet of Sanikiluaq Council Meeting (in person).	Council members, NNC, and subcontractors.	Project update was presented for the 2023 field work.	Meeting minutes.
May 2023	Hunters and Trappers Association Sanikiluaq (in person).	Members of the Hunters and Trappers Association, NNC, and subcontractors.	Project update was presented for the 2023 field work.	Meeting minutes.
July 2023	Hired two local assistants and one wildlife monitor for several days, collected traditional knowledge of the area. Stayed in local accommodations.	Ken Swayze, Davidee Kavvik, Minnie Tookalook, and Lucassie Ippak	Ken, under Nunavut Class 1 archaeology permit, conducted an archaeological field survey, and was assisted by Minnie and Davidee. Lucassie was the project wildlife monitor and guide.	Nunavut Archaeology Permit 2023-63A Class 1 Non-Technical Summary Report
September 2023	Hunters & Trappers Association Sanikiluaq (in person).	Members of the Hunters and Trappers Association, NNC, and subcontractors.	Project update was presented for the 2023 field work.	Meeting minutes.
October 2023	Hired local labourers, translators, environmental monitors, and bear monitors.	Approximately 10 people were hired for the 2023 construction season/ Some of the people hired were Davidee Kavvik, Johnassie, Allan Rumbolt	During the field season the Project team hired local labourers, environmental monitors, and bear monitors. Translators were hired throughout 2023 for all engagement activities.	Pay cheques and contracts with local residents.
October 2023	Engaged with local wildlife monitors and others while conducting environmental monitoring onsite.	Brent Sellars (SEM), Davidee Kavvik, Jonah Qittusuk	Collected valuable historical environmental information from several Sanikiluarmiut. Information regarding Arctic fox dens, lemmings, fish, and mussels.	Environmental Monitoring Records
October 2023	Involved local residents on timing of work to mitigate noise concerns.	Brent Sellars (SEM), Troy Squires (CPL), Allan Rumbolt	A funeral was planned to occur at the Sanikiluaq cemetery; construction work was scheduled to be delayed until after the service so that noise would not disrupt.	Environmental Monitoring Records

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Table 2.1 Engagement Activities Conducted in 2023 (cont'd).

Date	Form of Engagement	Participants	Summary	Records
October 2023	Purchased granular material and water from the Hamlet.	Hamlet, NNC, and subcontractors.	All water and granular that was used during the field season was purchased from the Hamlet.	Invoices from the Hamlet for the granular material and water.
2023 Field Season	Booked meeting venues for engagement with residents.	NNC, local residents, Growler, CPL, and SEM.	The Hunters & Trappers Association Sanikiluaq office was rented for meetings with residents and other stakeholders.	Invoices for venue bookings.
October 2023	Rented equipment from the Hamlet and local businesses.	Trucks, dozer, and other construction equipment.	All equipment for pre-construction and construction was rented from the Hamlet or local businesses.	Invoices from Hamlet and local businesses.
October 2023	Stayed at local accommodations while in the Hamlet.	Six people stayed at the Amaulik Motel, and two stayed at the Penn-Co camp in Sanikiluaq. Most stayed for about 1 week, one stayed for 2 weeks.	Logistically it was key to have accommodations in the Hamlet during the construction field season. Meals were provided with accommodations.	Accommodation invoices.
2023	Request for information regarding birds in the region.	Steve Gullage (SEM), Environment and Climate Change Canada, Arctic Eider Society (Joel).	SEM engaged with ECCC and the AES regarding bird migration patterns near the wind turbine site. AES indicated they had no concern with the site.	Email correspondence



2.3 Future Engagements

NNC understands that it will be critical to have ongoing engagement with all stakeholders potentially affected by this Project. The following engagement activities are planned for the upcoming year.

1. Early engagement will occur prior to the 2024 construction season to discuss the work to be completed. This will include but is not limited to the following:
 - Schedule;
 - Equipment rental required;
 - Potential granular required;
 - Water required during the field season;
 - Accommodations;
 - Workforce for local labourers, environmental monitors, and translators; and,
 - Project ownership structure and Benefits Sharing Agreement.

NNC employees will travel to Sanikiluaq to meet with the Hamlet council and HTA, share all relevant information, respond to questions / concerns / suggestions, and make any resultant changes to the field season plan based on feedback.

2. Ground-Breaking Ceremony and Community Feast: to take place at the commencement of site works in the summer of 2024. Representatives from NNC and partner organizations will attend this celebration. Country food will be sourced from the local HTA and/or other recommended suppliers according to community preferences. This event will be open to the public.
3. Post-construction season visit: NNC employees will travel to Sanikiluaq in the late fall to connect, give an overview on progress achieved in 2024, any scopes that were not completed and the reasons why, and share the workplan for what will take place over the winter and into Spring 2025.



3.0 2023 Project Update

SEM was retained by Growler Energy to provide environmental management and permitting services for the Project. This scope broadly included providing advice to the Proponent to address information requests, preparation of environmental management plans, making recommendations to the Project management team for mitigation and monitoring during construction, and preparing and tracking permitting applications and approvals. SEM tracked permitting statuses and evaluated compliance with approvals in the Permitting Registry (Appendix A). A summary of the approved permits is provided Table 1.1 Approvals, Authorizations, and Permits for Construction. Environmental management plans developed for the construction phase included the Environmental Protection Plan (EPP), Waste Management Plan (WMP), Spill Prevention and Response Plan (SPRP), Wildlife Management and Monitoring Plan (WMMP), and a Historic Resources Management Plan (HRMP). The management team responsible for construction planning and execution were able to satisfy the permitting requirements to begin pre-construction work on the Project, as detailed in Section 4.0.

As part of pre-construction environmental monitoring for the Project, a Professional Archaeologist surveyed the Project area for sites of historic significance. The archaeological survey took place on July 22nd, 2023, and was directed by Ken Swayze under Nunavut Class 1 archaeology permit 2023-063A. During this survey, six sites in proximity to the proposed road were identified. As directed by the office of the Nunavut Territorial Archaeologist (TA), and prior to any construction work commencing on the Project, these sites 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. Upon consultation with the site construction team, the proposed road centerline and the configuration of the wind turbine site were adjusted to maintain the 50-meter buffer for these sites. Details and photographs of the marked buffer zones were communicated in the Historic Resources Management Report provided to the office of the Nunavut TA. Historic site buffer markers were maintained during construction, and all site personnel were aware of and respected the marked avoidance areas.

In response to concerns regarding Acid Rock Drainage and Metal Leaching (ARD/ML) and appropriate mitigation measures, the NNC noted in their response during the NIRB screening and during the NWB water licence review, that to their knowledge the borrow source, a local quarry operated by the Hamlet of Sanikiluaq, does not have any history of producing ARD/ML. To confirm this assumption, SEM subcontracted Ecometrix to initiate an ARD/ML investigation of the material from the Sanikiluaq quarry. A desktop study was performed based on available

data in addition to a static testing program using samples collected from the quarry. Six samples were collected by a local resident, Allan Rumbolt, of the Hamlet on August 21st, 2023 under the technical instructions of Ecometrix. Samples were packaged and shipped to SGS Lakefield, ON for laboratory analysis. The study concluded that based on available information and verified by laboratory testing, the Sanikiluaq quarry represents a low risk for ARD/ML (Ecometrix, 2023).

In 2023, approximately 2.5 km of the access road subgrade was prepared, which included rough grading only. In 2024, the subgrade for the remaining 3 km will be prepared. Additional fill placement, geosynthetics placement, and final grading will also be completed in 2024. Further Project activities anticipated to take place in 2024-2025 are outlined in Table 3.1. The schedule is subject to change/revision as the Project advances.

Table 3.1 Anticipated Future Project Construction Schedule 2024-2025.

Project Activity	Anticipated Schedule
Access Road	June - August 2024
Site Preparation	
Turbine Foundation	August – September 2024
Turbine Installation	July – August 2025
Balance of Plant	August – October 2025
Commissioning	October 2025

3.1 Construction Environmental Monitoring Summary

Construction personnel arrived onsite October 19, 2023, and the Construction Site Manager identified culvert installation locations in the field and verified 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. Brent Sellars of SEM, Project Environmental/Wildlife Monitor, conducted monitoring activities concurrent to site construction as outlined in the Project Construction Environmental Protection Plan (EPP). Several local Sanikiluaq residents and members of the 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.



The 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. The Environmental Site Inspection Checklist, the In-Situ Turbidity Monitoring Log and Water Quality Monitoring Log prescribed in the EPP were completed on a daily basis, as well as the Wildlife Sighting Log as needed. Monitoring records indicate 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, nevertheless water samples were collected prior to the start of work and 30 minutes after active works stopped for the day to establish a water quality baseline and to verify erosion control measures were sufficient when working near waterbodies. Details and results of water quality monitoring are provided in the Water Quality Monitoring Report (WQMR) in Appendix C. Visual monitoring paired with sample results indicated that compliance with water quality thresholds were maintained throughout the construction period.

Wildlife sightings were reported to the Project Environmental/Wildlife Monitor, who recorded observations. 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. A single deceased fox was discovered on October 24, 2023, and the Sanikiluaq Conservation Officer was called to inspect and remove the carcass. The fox was determined to have died from natural predation unrelated to project activities. Several lemmings were sighted throughout the construction period. Construction occurred outside of the bird nesting season for Sanikiluaq, therefore nest avoidance buffers were not required. Records and photographs of wildlife sightings are detailed in the Wildlife Mitigation and Monitoring Report provided in Appendix D.

4.0 Compliance With Approval Terms and Conditions

The following sections provide a discussion of NNC's self-assessed status of compliance and performance related to each of the permits, licences, approvals, authorizations, and agreements for the Project in 2023.

4.1 Methodology and Criteria

NNC has taken a conservative approach for self-assessing the status of compliance with Terms and Conditions of all approvals for 2023. When determining a status of compliance for each, the following process was implemented by NNC and its technical experts:

1. A review of the specific requirements outlined in each Term and Condition is conducted.
2. A review of all relevant work completed by NNC in the reporting year relevant to the Term and Condition is conducted.
3. A gap analysis is completed to assess whether or not there is a discrepancy between the requirements of the Term and Condition and the work completed by NNC to meet these requirements.
4. Inuit and additional stakeholders comments or concerns as relevant to the Term and Condition are considered and feedback is integrated.
5. A status of compliance based on the results of NNC's self-assessment is assigned.

Table 4.1 outlines the status of compliance levels and describes the criteria related to each of these options. Each Term and Condition has been assigned a status of compliance. Where a Term and Condition is designated as being only 'In Progress' or 'Non-Compliant', a rationale explaining why 'Compliant' or 'Compliant and Ongoing' was not achieved in 2023 and, where applicable, a strategy and timeline for moving towards full compliance in a future reporting year has been provided. It is noted that some Terms and Conditions may or may not be active during the current phase of the Project and/or a specific component of the Approved Project may not yet be active in the reporting year.

Table 4.1 Compliance Status Terminology and Criteria

Status	Criteria
Compliant	Obligations have been met or exceeded, as intended in the Approval for the relevant monitoring period. Rationale for meeting compliance requirements is provided.
Compliant and Ongoing	Obligations are actively being fulfilled, as intended in the Approval for the relevant monitoring period and are anticipated to continue. Review of actions completed towards compliance in the monitoring period and an outline of plans towards compliance is provided.
In Progress to Compliance	Obligations have been partially fulfilled, as intended in the Approval for the relevant monitoring period, or a plan to achieve full compliance is being actioned. Demonstrable efforts towards meeting compliance requirements is provided.
Non-Compliant	Obligations have not been met as intended in the Approval for the relevant monitoring period. Rationale for being unable to meet compliance requirements is provided.
Not Applicable	The Term or Condition is not applicable to the current phase of the Project and/or a specific component of the Project to which the Term or Conditions applies is not yet active for the reporting year for the relevant monitoring period.

The following sections list each of the approvals obtained to date and include tables of concordance with terms and conditions issued to NNC as written in the approval, and an assessment of compliance status.

4.2 NIRB Project Screening

On July 22, 2022, the NIRB received a referral to screen the NNC’s “Anuriqjuak Nukkiksautit Project” proposal from the Nunavut Planning Commission, which noted that the project proposal is outside the area of an applicable regional land use plan. The NIRB commenced screening this project proposal and assigned it file number 22XN052, and the file was distributed to community organizations in Sanikiluaq, as well as to relevant federal and territorial government agencies, Inuit organizations and other parties. Table 4.2 provides a summary of the commitments NNC made in response to comments received during the NIRB screening process, and the status of these commitments over the course of the 2023 reporting period.

The Project was released from further environmental assessment on November 4, 2022. Tables 4.3 to 4.5 provide a summary of the Terms and Conditions, Monitoring and Reporting Requirements, and Other Concerns and Recommendations contained in the NIRB screening decision report and the status of NNC’s compliance with them during the 2023 reporting period.

Table 4.2 NNC Conformance with Commitments made in Response to ECCC and CIRNAC Review Comments on NIRB File No. 22XN052.

#	Reference	NNC Commitment	Status
E1	Air Emissions Mitigations	<p>It is the intent of the Applicant (NNC) that construction and truck vehicles will be equipped with Tier 3 or 4 engines where possible.</p> <p>Note, in order to utilize locally available construction equipment, some compromise may be appropriate. In all cases however, all Project vehicles are to be properly maintained and muffled to control emissions.</p>	<p>Compliant and Ongoing</p> <p><i>Preference will be made for procured contractors to have their construction vehicles equipped with Tier 3 or 4 engines.</i></p>
E2	Incorporating Mitigation Measures into Management Plans	<p>As indicated in the NIRB Application, NNC will develop a suite of monitoring and management plans including:</p> <ul style="list-style-type: none"> Emergency Response Plan Environmental Protection Plan Comprehensive Spill Prevention Plan Waste Management Plan. <p>The topics to be addressed by these management plans include but are not limited to: construction, operation and maintenance, erosion and sedimentation control, waste management, fuel and chemical storage and management, spill prevention and response, monitoring, QA/QC, and closure.</p>	<p>Compliant</p> <p><i>A list of all up-to-date monitoring and management plans are found in Section 6.0.</i></p>
E3	Water Quality Monitoring	<p>The NNC management and monitoring plans will include:</p> <ul style="list-style-type: none"> Water quality monitoring details; Procedures to monitor the effectiveness of mitigation measures (for example, monitoring effectiveness of erosion and sedimentation controls), with corresponding management triggers and response actions; and Procedures to monitor the effectiveness of spill prevention measures with corresponding management triggers and response actions. 	Compliant and Ongoing
E4	Aquatic Environment	The NNC Project management and monitoring plans will include details on measures for protection of the aquatic environment by Project Stage and Site Location. The collected information will be incorporated into management, monitoring, and contingency plans as appropriate.	Compliant and Ongoing



Table 4.2 NNC Conformance with Commitments made in Response to ECCC and CIRNAC Review Comments on NIRB File No. 22XN052 (cont'd).

#	Reference	NNC Commitment	Status
E5	Wildlife Management Plan	NNC will consult with ECCC, along with all other interested parties, in the review of the forthcoming Wildlife Management Plan.	Compliant
E6a	Biological Environment – Bird Baseline Information	NNC will consult with ECCC for specifics on the type and level of detail required on winter and migration bird surveys and issue a report addendum as appropriate.	Compliant
E6b		NNC will consult with ECCC on the need for and scope/timing of any additional winter resident surveys.	Compliant
E6c		The supplementary report has been completed and uploaded to the NIRB portal. NNC will cooperate with ECCC, as well as with any other interested parties, in the review of the report, including the breeding bird point count results and findings from the acoustic monitoring.	Compliant
E7a	Vegetation Clearing – Impacts to Birds	NNC will endeavour to avoid vegetation clearing during the general nesting period.	Compliant and Ongoing
E7b		Should avoidance not be possible, NNC will confirm the absence of migratory birds in the affected area using procedures laid out in the ECCC <i>Guidelines to Avoid Harm to Migratory Birds</i> .	Compliant and Ongoing
E7c		NNC commits to the use of non-intrusive search methods, conducted by a trained and experienced observer.	Compliant and Ongoing
E7d		NNC will engage ECCC in the development and implementation of avoidance protocols for nesting migratory birds.	Compliant and Ongoing
E8a	Transmission Lines	As detailed design proceeds, NNC commits to further assessing transmission spans that might call for specific mitigation measures.	Compliant and Ongoing
E8b		NNC will review and, as appropriate, apply the guidance contained in the cited reference: Avian Power Line Interaction Committee (APLIC). 2012. Reducing Avian Collisions with Power Lines: The State of the Art in 2012. Edison Electric Institute. Washington, D.C.	Compliant and Ongoing

Table 4.2 NNC Conformance with Commitments made in Response to ECCC and CIRNAC Review Comments on NIRB File No. 22XN052 (cont'd).

#	Reference	NNC Commitment	Status
C1	Environmental Impacts	<p>As described in its application, NNC will develop and implement a series of environmental management and monitoring plans. These plans will include procedures to measure effects/changes and, as required, implement additional mitigation measures with corresponding management triggers and response actions. The candidate targets of monitoring and mitigation will include those listed by CIRNAC.</p> <p>i.e., designated environmental areas, hydrology, permafrost, ground stability, air quality, human health, water quality, sediment and soil quality, acid rock drainage, and wildlife</p>	Compliant
C2a	Additional Information	<p>The NNC assessment did not identify any potential for Project- induced permafrost effects but did identify that climate change could result in changes to the permafrost level. NNC would consider local participation in or support of any such long-term monitoring program.</p>	<p>Not Applicable</p> <p><i>NNC is currently not committed to thermal monitoring program for changes in permafrost levels.</i></p>
C2b	Additional Information	<p>The planned Construction and Operation activities pose minimal potential for Acid Rock Drainage or metals leaching (ARD/ML). There will be minimal excavation associated with the Project infrastructure. The main source of excavated rock will be the existing quarry operated by the Hamlet, a location that, to our knowledge, does not have any history of producing ARD/ML. Nevertheless, NNC will review the geochemistry of the native rock. Should this indicate any possibility of metals leaching or acid drainage, samples will be collected during construction and analyzed as per laboratory protocols</p> <p>(see Modified Acid Base Accounting (Lawrence, 1989) and/or EPA Standard Acid Base Accounting (Sobek et al.,1978).</p>	<p>Compliant</p> <p><i>Borrow source was tested and determined to be non-acid generating and non-metal leaching. A copy of these results are included in the appended Water Quality Monitoring Report (WQMR).</i></p>
C3	Combustible Waste Management	<p>NNC will seek assurance that any contracted waste handler employs a compliant facility for disposal of combustible waste.</p>	<p>Compliant and Ongoing</p> <p><i>No combustible waste was generated during the 2023 construction season.</i></p>

Table 4.2 NNC Conformance with Commitments made in Response to ECCC and CIRNAC Review Comments on NIRB File No. 22XN052 (cont'd).

#	Reference	NNC Commitment	Status
C4	Potential for positive effects to Inuit through employment, training, and procurement opportunities	NNC has committed to prioritize hiring local contractors and utilizing local businesses. Where direct hire and pre-employment training opportunities arise, NNC will give first preference to Inuit resident in Sanikiluaq.	Compliant and Ongoing <i>Local heavy equipment contractors were hired for the first phase of the road construction. Local people were hired as bear monitors.</i>
C5	Consultation with interested parties	As confirmed in its Application, NNC will continue to consult with Hamlet of Sanikiluaq and residents on various aspects of the project, including: <ul style="list-style-type: none"> • Incorporation of Inuit knowledge and Inuit Qaujimajatuqangit into project activities; • Mitigation measures designed to prevent any disturbance to wildlife and the environment; • Use of access roads for project related activities; • Training and employment opportunities for community members; • Procurement opportunities for local businesses, and • Regular updates on the status of project activities. 	Compliant and Ongoing
C6a	Annual reporting	NNC will comply with all reporting requirements as issued by NIRB.	Compliant and Ongoing

Table 4.3 NNC Conformance with Screening Decision Report NIRB File No. 22XN052.

#	Condition	Status
N-1	Nunavut Nukkiksautiit Corporation (the Proponent) shall maintain a copy of the Project Terms and Conditions at the site of operation at all times and make it accessible to enforcement officers upon request.	Compliant and Ongoing
N-2	The Proponent shall operate in accordance with all commitments stated in correspondence provided to the Nunavut Planning Commission (NPC File No.: 149782) and the NIRB (Online Application Form August 15, 2022). This information should be accessible to enforcement officers upon request.	Compliant and Ongoing
N-3	The Proponent shall operate the site in accordance with all applicable Acts, Regulations and Guidelines.	Compliant and Ongoing



Table 4.3 NNC Conformance with Screening Decision Report NIRB File No. 22XN052 (cont'd).

#	Condition	Status
N-4	The Proponent shall ensure that it meets the standards and/or limits as set out in the authorizing agencies' permits or licences as required for this project.	Compliant and Ongoing
N-5	The Proponent shall ensure that all personnel, staff, and contractors are adequately trained prior to commencement of all project activities, and shall be made aware of all operational plans, management plans, guidelines and Proponent commitments relating to the project.	Compliant and Ongoing
N-6	The Proponent shall manage all hazardous and non-hazardous waste including food, domestic wastes, debris, and petroleum-based chemicals (e.g., greases, gasoline, glycol-based antifreeze) in such a manner to always avoid release into the environment and access to wildlife until disposed of appropriately or at an approved facility.	Compliant and Ongoing
N-7	The Proponent shall locate all fuel and other hazardous materials a minimum distance away from the high-water mark of any water body and environmentally sensitive areas as required by the appropriate authorizing agencies. The materials shall be stored in such a manner as to prevent their release into the environment.	Compliant and Ongoing
N-8	The Proponent shall ensure that re-fueling of all equipment occurs a minimum distance away from the high-water mark of any water body as required by the appropriate authorizing agencies.	Compliant and Ongoing
FN9	The Proponent shall have a Spill Contingency Plan in place at all fuel storage or transfer locations and shall ensure that appropriate spill response equipment and clean-up materials (e.g., shovels, pumps, barrels, drip pans, and absorbents) are readily available.	Compliant and Ongoing
N-10	The Proponent shall follow the authorizing agencies' direction for management and removal of hazardous materials and wastes (e.g., contaminated soils, sediment, and waste oil).	Compliant and Ongoing
N-11	The Proponent shall ensure that wildlife deterrent systems are utilized at the time of a spill incident to avoid wildlife (terrestrial or marine) and migratory birds from being contaminated.	Compliant and Ongoing
N-12	The Proponent shall ensure that all spills of fuel or other deleterious materials of 100 litres or more must be reported immediately to the 24-hour Spill Line at (867) 920-8130.	Compliant and Ongoing
N-13	The Proponent shall not substantially alter or damage or destroy any wildlife habitat in conducting this operation unless otherwise authorized by the appropriate authorizing agencies.	Compliant and Ongoing



Table 4.3 NNC Conformance with Screening Decision Report NIRB File No. 22XN052 (cont'd).

#	Condition	Status
N-14	The Proponent shall not chase, weary, harass or molest wildlife. This includes persistently circling, chasing, hovering over, pursuing or in any other way harass wildlife, or disturbing large groups of animals.	Compliant and Ongoing
N-15	The Proponent shall not hunt or fish, unless proper Nunavut authorizations have been acquired.	Compliant and Ongoing
N-16	The Proponent shall ensure that all wildlife have the right-of-way on any roads or trails. Vehicles are required to slow down or stop and wait to permit the free and unrestricted movement of wildlife across roads or trails at any location.	Compliant and Ongoing
N-17	The Proponent shall enforce safe speed limits for vehicles travelling along the road to ensure drivers have sufficient time to react in a safe manner if wildlife are encountered on or adjacent to the road or trail.	Compliant and Ongoing
N-18	The Proponent shall ensure that drivers maintain spacing appropriate for driving and road conditions, and speed limits, to ensure drivers have time to safely react to any wildlife on the road.	Compliant and Ongoing
N-19	The Proponent shall carry out all phases of the project in a manner that protects migratory birds and avoids harming, killing, or disturbing migratory birds or destroying, disturbing or taking their nests or eggs. In this regard, the Proponent shall consider Environment and Climate Change Canada's <i>Avoidance Guidelines</i> . The Proponent's actions in applying the <i>Avoidance Guidelines</i> shall follow the <i>Migratory Birds Convention Act, 1994</i> and with the <i>Species at Risk Act</i> .	Compliant and Ongoing
N-20	The Proponent shall not disturb or destroy the nests or eggs of any birds. If active nests of any birds are discovered or located (i.e., with eggs or young), the Proponent shall avoid these areas until nesting is complete and the young have naturally left the vicinity of the nest by establishing a protection buffer zone ¹ appropriate for the species and the surrounding habitat.	Compliant and Ongoing
N-21	The Proponent shall not move any equipment or vehicles unless the ground surface is in a state capable of fully supporting the equipment or vehicles without rutting or gouging. Overland travel of equipment or vehicles must be suspended if rutting occurs.	Compliant and Ongoing
N-22	The Proponent shall use existing trails where possible during project activities on the land.	Compliant and Ongoing
N-23	The Proponent shall ensure that the land use area is always kept clean and tidy.	Compliant and Ongoing
N-24	The Proponent shall avoid disturbance on slopes prone to natural erosion, and alternative locations shall be utilized.	Compliant and Ongoing

Table 4.3 NNC Conformance with Screening Decision Report NIRB File No. 22XN052 (cont'd).

#	Condition	Status
N-25	The Proponent shall remove all garbage, fuel, and equipment at the end of each field season and/or upon completion of work and/or upon abandonment.	Compliant and Ongoing
N-26	The Proponent shall ensure that all disturbed areas are restored to a stable or pre-disturbed state using Best Available Technology Economically Achievable (BATEA) upon completion of work and/or abandonment.	Compliant and Ongoing
N-27	The Proponent shall ensure that archaeological and paleontological sites are not purposely or inadvertently disturbed by clients or staff as a result of project activities.	Compliant and Ongoing <i>Buffers are put in place around surveyed archaeological sites to avoid disruption.</i>
N-28	The Proponent shall ensure that all clients and staff are aware of the Proponent's responsibilities and requirements regarding archaeological or paleontological sites that are encountered during land-based activities. This should include briefings explaining the prohibitions regarding removal of artifacts, and defacing or writing on rocks and infrastructure.	Compliant and Ongoing
N-29	No activities shall be conducted in the vicinity (50 metres buffer zone) of any archaeological/historical sites. If archaeological sites or features are encountered, activities shall immediately be interrupted and moved away from this location. Each site encountered needs to be recorded and reported to the Government of Nunavut-Department of Culture and Heritage.	Compliant and Ongoing <i>Buffers are put in place around surveyed archaeological sites to avoid disruption.</i>
N-30	The Proponent should engage with residents regarding planned activities in the area and should solicit available Inuit Qaujimajatuqangit and information regarding current recreational and traditional usage of the project area which may inform project activities. The posting of translated public notices and direct engagement with potentially interested groups and individuals prior to undertaking project activities is strongly encouraged.	Compliant and Ongoing
N-31	The Proponent shall ensure that project activities do not interfere with Inuit wildlife harvesting or traditional land use activities.	Compliant and Ongoing
N-32	The Proponent should, to the extent possible, hire local people and access local services where possible.	Compliant and Ongoing <i>Local equipment rentals, bear monitors, environmental monitors, accommodations, labourers, and the purchasing of water and granular material was purchased from the community.</i>

Table 4.4 NNC Conformance with Monitoring and Reporting Requirements NIRB File No. 22XN052.

#	Condition	Status
N-33	<p>The Proponent shall submit a comprehensive annual report with copies provided to the Nunavut Impact Review Board and Crown – Indigenous Relations and Northern Affairs Canada, by March 31st of each year of permitted activities beginning March 31, 2024. The annual report must contain at least the following information:</p> <p>a) A discussion of issues related to wildlife and environmental monitoring, including the number of cease-work orders required as a result of proximity to caribou and any other wildlife;</p> <p>b) A brief summary of WMMP results as well as any mitigation actions that were undertaken. In addition, the Proponent shall maintain a record of wildlife observations while operating within the project area and include it as part of the summary report. The summary report based on wildlife observations should include the following:</p> <ol style="list-style-type: none"> 1. Locations (i.e., latitude and longitude), species, number of animals, a description of the animal activity, and a description of the gender and age of animals if possible. 2. Prior to conducting project activities, the Proponent should map the location of any sensitive wildlife sites such as denning sites, calving areas, caribou crossing sites, and raptor nests in the project area, and identify the timing of critical life history events (i.e., calving, mating, denning and nesting). 3. Additionally, the Proponent should indicate potential impacts from the project, and ensure that operational activities are managed and modified to avoid impacts on wildlife and sensitive sites. <p>c) An analysis of the effectiveness of mitigation measures for wildlife;</p> <p>d) Summary of any heritage sites encountered during the construction activities, any follow-up action or reporting required as a result and how project activities were modified to mitigate impacts on the heritage sites;</p> <p>e) Summary of its knowledge of Inuit land use in/near the project area and explain how project activities were modified to mitigate impacts on Inuit land use; and</p> <p>f) A summary of how the Proponent has complied with conditions contained within this Screening Decision, and all conditions as required by other authorizations associated with the project proposal.</p>	<p>Compliant and Ongoing</p> <p><i>Items a, b, and c are discussed in the Wildlife Mitigation and Monitoring Report appended. Item d is discussed in Section 3.1. Item e is discussed in Section 2.2. Item f is encompassed throughout this Section 4.</i></p>



Table 4.5 Other NIRB Concerns and Recommendations.

#	Condition	Status
N-34	Responsible authorities or Proponent shall notify the Nunavut Planning Commission and the NIRB of any changes in operating plans or conditions, including phase advancement, associated with this project prior to any such change.	Compliant
N-35	The NIRB respectfully requests that responsible authorities submit a copy of each licence, permit or other authorization issued for the Project to the NIRB to assist in enabling possible project monitoring that may be required. Please forward a copy of the licences, permits and/or other authorizations to the NIRB directly at info@nirb.ca or upload a copy to the NIRB's online registry at www.nirb.ca .	Compliant and Ongoing
N-36	The Proponent is encouraged to work with local communities and knowledge holders to inform project design, to carry out the project, and to confirm or validate the perspectives represented in publications produced as part of the project. Care should be taken to ensure that Inuit Qaujimajatuqangit and local knowledge collected for the project is used with permission and is accurately represented.	Compliant and Ongoing <i>Local equipment rentals, bear monitors, environmental monitors, accommodations, labours, and the purchasing of water and granular material was purchased from the community.</i>
N-37	<p>The Proponent should review the Government of Nunavut's booklet on Bear Safety, which can be downloaded from this link: http://gov.nu.ca/sites/default/files/bear_safety_-_reducing_bear_people_conflicts_in_nunavut.pdf. Further information on bear/carnivore detection and deterrent techniques can be found in the "Safety in Grizzly and Black Bear Country" pamphlet, which can be downloaded from this link: https://www.enr.gov.nt.ca/sites/enr/files/resources/safety_in_grizzly_and_black_bear_country_english.pdf.</p> <p>There are Polar Bear and grizzly bear safety resources available from the Bear Smart Society with videos on Polar Bear safety available in English, French and Inuktitut at http://www.bearsmart.com/play/safety-in-polar-bear-country/. Information can also be obtained from Parks Canada's website on bear safety at the following link: http://www.pc.gc.ca/eng/pn-np/nu/quttinirpaaq/visit/visit6/d.aspx or in reviewing the "Safety in Polar Bear Country" pamphlet, which can be downloaded from the following link: http://www.pc.gc.ca/eng/pn-np/nu/quttinirpaaq/visit/visit6/~/media/pn-np/nu/auyuittuq/pdf/shared/PolarBearSafety_English.ashx.</p> <p>Any problem wildlife or any interaction with carnivores should be reported immediately to the local Government of Nunavut, Department of Environment Conservation Office (Conservation Officer of Sanikiluaq, phone: (867) 266-8098).</p>	Compliant

Table 4.5 Other NIRB Concerns and Recommendations (cont'd).

#	Condition	Status
N-38	The Proponent review Environment and Climate Change Canada's "Environment Assessment Best Practice Guide for Wildlife at Risk in Canada", available at the following link: http://www.sararegistry.gc.ca/virtual_sara/files/policies/EA%20Best%20Practices%202004.pdf . The guide provides information to the Proponent on what is required when Wildlife at Risk, including Species at Risk, are encountered or affected by the project.	Compliant
N-39	The Proponent review Canadian Wildlife Services' "Key migratory bird terrestrial habitat sites in the Northwest Territories and Nunavut", available at the following link: http://publications.gc.ca/site/eng/317630/publication.html and "Key marine habitat sites for migratory birds in Nunavut and the Northwest Territories", available at the following link: http://publications.gc.ca/site/eng/392824/publication.html . The guide provides information to the Proponent on key terrestrial and marine habitat areas that are essential to the welfare of various migratory bird species in Canada.	Compliant
N-40	For further information on how to protect migratory birds, their nests and eggs when planning or carrying out project activities, consult Environment and Climate Change Canada's Incidental Take web page and the fact sheet "Planning Ahead to Reduce the Risk of Detimental Effects to Migratory Birds, and their Nests and Eggs" available at: http://publications.gc.ca/collections/collection_2013/ec/CW66-324-2013-eng.pdf .	Compliant

4.3 NWB Water Licence

The NNC submitted an application to the NWB for a new Water Licence to allow for the use of water and the deposit of waste during construction activities of the Project. Ultimately, this licence is required to complete the installation of watercourse crossings that will be constructed to facilitate an access road. The Water Licence (#8BW-ANU2333) was issued to NNC on August 16, 2023. Table 4.6 lists the terms and conditions of the licence and NNC's compliance with them during the 2023 reporting period.

Table 4.6 NNC Conformance with Conditions of NWB Licence File No. 8BW-ANU2333.

NWB#	Condition	Status
B-1	The Licensee shall file an Annual Report on the Appurtenant Undertaking with the Board no later than March 31st of the year following the calendar year being reported.	Compliant and Ongoing
B-2	The Licensee shall notify the NWB of any changes in operating plans or conditions associated with this Project at least thirty (30) days prior to any such change.	Compliant and Ongoing



Table 4.6 NNC Conformance with Conditions of NWB Licence File No. 8BW-ANU2333
(cont'd).

NWB#	Condition	Status
B-3	The Licensee shall, for all Plans submitted under this Licence, include a proposed timetable for implementation. Plans submitted, cannot be undertaken without subsequent written Board approval and direction. The Board may alter or modify a Plan if necessary to achieve the legislative objectives and will notify the Licensee in writing of acceptance, rejection or alteration of the Plan.	Compliant
B-4	The Licensee shall, for all Plans submitted under this Licence, implement the Plan as approved by the Board in writing.	Compliant
B-5	The Licensee shall review the Plans referred to in this Licence, as required by changes in operation and/or technology, and modify the Plan accordingly. Revisions to the Plans shall be submitted in the form of an Addendum to be included with the Annual Report.	Compliant <i>The EPP and SPRP approved by the Board were revised following the issue of the water licence to include conditions contained in the licence. The most recent revisions are appended.</i>
B-6	Every Plan to be carried out pursuant to the terms and conditions of this Licence shall become a part of this Licence, and any additional terms and conditions imposed upon approval of a Plan by the Board become part of this Licence. All terms and conditions of the Licence should be contemplated in the development of a Plan where appropriate.	Compliant and Ongoing <i>See above.</i>
B-7	The Licensee shall ensure a copy of this Licence is maintained at the site of operations at all times.	Compliant and Ongoing
B-8	The Licensee shall submit an electronic copy of all reports, studies, and plans to the Board. Reports or studies submitted to the Board by the Licensee shall include a detailed executive summary in Inuktitut.	Compliant and Ongoing
B-9	The Licensee shall ensure that all documents or correspondence submitted by the Licensee to the NWB are received and acknowledged by the Manager of Licensing.	Compliant and Ongoing
B-10	This Licence is assignable as provided for in Section 44 of the Act.	Compliant
B-11	The expiry or cancellation of this Licence does not relieve the Licensee from any obligation imposed by the Licence, or any other regulatory requirement.	Compliant
C-1	The Licensee shall not cause erosion to the banks of any water body and shall provide necessary controls to prevent such erosion.	Compliant and Ongoing

Table 4.6 NNC Conformance with Conditions of NWB Licence File No. 8BW-ANU2333 (cont'd).

NWB#	Condition	Status
C-2	Sediment and erosion control measures shall be implemented prior to and maintained during the Undertaking to prevent entry of sediment into Water.	Compliant and Ongoing
C-3	The Licensee shall not remove any material from below the ordinary High-Water Mark of any water body unless authorized.	Compliant and Ongoing
C-4	The Licensee shall undertake appropriate corrective measures to mitigate impacts on surface drainage resulting from the Licensee's activities.	Compliant and Ongoing
C-5	The Licensee shall limit any in-stream activity to either no-flow or low-flow water periods. In stream activity is prohibited during fish migration.	Not Applicable. <i>In-stream activities did not occur in 2023.</i>
C-6	The Licensee shall minimize stream bank disturbances and shall provide necessary controls to prevent erosion of stream banks.	Compliant and Ongoing
C-7	Machinery is not permitted to travel up the stream bed and fording of any water body is to be kept to a minimum and limited to one area and a one-time event. Equipment used should be well cleaned and free of oil and grease and maintained free of fluid leaks.	Compliant and Ongoing
C-8	The Licensee shall ensure that pollutants from machinery fording the crossing do not enter Water.	Compliant and Ongoing
C-9	To minimize impacts on surface drainage, the Licensee shall prepare all sites in such a manner as to prevent rutting of the ground surface.	Compliant and Ongoing
C-10	Equipment storage holding areas should be located on gravel, sand or other durable land, a distance of at least thirty-one (31) meters above the Ordinary High-Water Mark of any water body in order to minimize impacts on surface drainage and water quality.	Compliant and Ongoing
C-11	The Licensee shall designate an area for the deposition of excavated and stockpiled materials that is at least thirty-one (31) metres above the ordinary High-Water Mark of any water body.	Compliant and Ongoing
C-12	The Licensee shall not utilize any equipment or vehicles in the course of this undertaking unless the ground surface is in a state capable of fully supporting the equipment or vehicles without rutting or gouging. Overland travel of equipment or vehicles shall cease if rutting occurs.	Compliant and Ongoing
D-1	The Licensee shall locate areas designated for temporary Waste disposal at a minimum distance of thirty-one (31) metres from the ordinary High Water Mark of any water body such that the quality, quantity, or flow of Water is not impaired, unless otherwise approved by the Board in writing.	Compliant and Ongoing
D-2	The Licensee shall not practice on-site land filling of domestic Waste, unless otherwise approved by the Board in writing.	Compliant and Ongoing

Table 4.6 NNC Conformance with Conditions of NWB Licence File No. 8BW-ANU2333 (cont'd).

NWB#	Condition	Status
D-3	The Licensee shall not open burn plastics, wood treated with preservatives, electric wire, Styrofoam, asbestos or painted wood to prevent the deposition of Waste materials of incomplete combustion and/or leachate from contaminated ash residual, from impacting any surrounding Waters, unless otherwise approved by the Board in writing.	Compliant and Ongoing
D-4	The Licensee shall backhaul and dispose of all domestic Waste, hazardous Wastes, Waste oil and non-combustible Waste generated through the course of the operation at a licensed Waste disposal site.	Compliant and Ongoing
D-5	The Licensee shall provide to the Board documented authorization from all communities in Nunavut receiving Wastes from the Anuriqjuak Nukiksautit Project prior to any backhauling and disposal of Wastes to those communities.	Compliant and Ongoing
D-6	The Licensee shall maintain records of all Waste backhauled and records of confirmation of proper disposal of backhauled Waste. These records shall be made available to an Inspector upon request.	Compliant and Ongoing
E-1	The Board has approved the Plan entitled "Construction Environmental Protection Plan" dated July 2023 that was submitted as additional information with the Application.	Compliant and Ongoing
E-2	The Licensee shall notify the Board and the Inspector at least ten (10) days prior to the construction or installation of any of the Water crossings associated with the Project.	Not Applicable <i>Water crossings were not constructed in 2023.</i>
E-3	The Licensee shall submit to the Board for review and acceptance, for- construction drawings stamped and signed by an Engineer, at least sixty (60) days prior to the construction of any dams, dykes or structures intended to contain, withhold, divert or retain Water or Wastes.	Compliant <i>Issued for construction drawings were approved by the board on September 1, 2023.</i>
E-4	The Licensee shall, within ninety (90) days of completion of construction activities, submit to the Board for review a Construction Summary Report that includes stamped as-built plans and drawings, explanation for any deviation from construction drawings, and consideration of construction and field decisions and their effects on the performance of engineered facilities.	Compliant and Ongoing

Table 4.6 NNC Conformance with Conditions of NWB Licence File No. 8BW-ANU2333 (cont'd).

NWB#	Condition	Status												
E-5	The Licensee shall ensure that all fill material used for the Project is from an approved source, shall be free of all contaminants, and shall be characterized and confirmed to not possess acid generating potential or metal leaching properties prior to its use, with results and assessment to be submitted within the annual reporting requirements of Part B, Item 1.	Compliant and Ongoing <i>A copy of the results are included in the WQMR appended.</i>												
E-6	All surface runoff or discharges impacted by construction activities associated with the Project, where flow may directly or indirectly enter Water, shall not exceed the following Effluent quality limits:	Compliant and Ongoing												
	<table border="1"> <thead> <tr> <th>Parameter</th><th>Maximum Average Concentration (mg/L)</th><th>Maximum Concentration of Any Grab Sample (mg/L)</th></tr> </thead> <tbody> <tr> <td>Total Suspended Solids</td><td>50.0</td><td>100</td></tr> <tr> <td>Oil and Grease</td><td>No Visible Sheen</td><td>No Visible Sheen</td></tr> <tr> <td>pH</td><td>Between 6.0 and 9.5</td><td>Between 6.0 and 9.5</td></tr> </tbody> </table>	Parameter	Maximum Average Concentration (mg/L)	Maximum Concentration of Any Grab Sample (mg/L)	Total Suspended Solids	50.0	100	Oil and Grease	No Visible Sheen	No Visible Sheen	pH	Between 6.0 and 9.5	Between 6.0 and 9.5	
Parameter	Maximum Average Concentration (mg/L)	Maximum Concentration of Any Grab Sample (mg/L)												
Total Suspended Solids	50.0	100												
Oil and Grease	No Visible Sheen	No Visible Sheen												
pH	Between 6.0 and 9.5	Between 6.0 and 9.5												
E-7	During in-stream activities, increase in turbidity is not to exceed 8 NTU for waters with background levels under 80 NTU or 10% for those above 80 NTU.	Compliant and Ongoing												
E-8	The Licensee shall locate stream crossings to minimize approach grades. Approaches shall be stabilized to control runoff, erosion and subsequent siltation of any water body.	Compliant and Ongoing												
E-9	The Licensee shall not gather rock or construction materials from below the ordinary High Water Mark of any water body.	Compliant and Ongoing												
E-10	Sediment and erosion control measures shall be used to mitigate the deposition of debris and sediment into or onto any water body during the construction and operation. These materials shall be disposed at a distance of at least thirty-one (31) metres above the ordinary High Water Mark of any water body to prevent entry of sediment into Water.	Compliant and Ongoing												
E-11	Stream crossing shall be a minimum of five hundred (500) meters from spawning areas.	Compliant and Ongoing												
F-1	The Licensee is authorized to drill only for geotechnical and construction purposes.	Not Applicable <i>Drilling did not occur in 2023.</i>												

Table 4.6 NNC Conformance with Conditions of NWB Licence File No. 8BW-ANU2333 (cont'd).

NWB#	Condition	Status
G-1	<p>The Licensee may, without written consent from the Board, carry out Modifications to the Water Supply Facilities and Waste Disposal Facilities provided that such Modifications are consistent with the terms of this Licence and the following requirements are met:</p> <p>a. the Licensee has notified the Board in writing of such proposed Modifications at least sixty (60) days prior to beginning the Modifications. The Licensee shall submit:</p> <ul style="list-style-type: none"> i. a description of the facilities and/or works to be constructed; ii. the proposed location of the structure(s); iii. identification of any potential impacts to the receiving environment; iv. a description of any monitoring required, including sampling locations, parameters measured and frequencies of sampling; v. schedule for construction; vi. drawings of engineered structures signed and stamped by an Engineer; and vii. proposed sediment and erosion control measures. <p>b. such Modifications do not place the Licensee in contravention of the Licence or the Act;</p> <p>c. such Modifications do not constitute “significant modifications” that require conformity assessment by the Nunavut Planning Commission and/or impact assessment by the Nunavut Impact Review Board before consideration by the NWB;</p> <p>d. within sixty (60) days following notification of the proposed Modifications, the Licensee, Nunavut Planning Commission, Nunavut Impact Review Board, designated Inuit organization or responsible regulatory authority has not indicated that any conformity determination, impact assessment, compensation negotiations or other consideration of the Modification that must be completed before the NWB can consider the Modification will take longer than 45 days; and</p> <p>e. the Board has not rejected the proposed Modifications.</p>	<i>NNC does not intend to carry out any modifications to water supply facilities nor waste disposal facilities, as these are outside the scope of works necessary to the Anuriqjuak Project.</i>
G-2	Modifications for which all of the conditions referred to in Part G, Item 1 have not been met can be carried out only with written approval from the Board.	Not Applicable <i>See above.</i>
G-3	The Licensee shall provide as-built plans and drawings of the Modifications referred to in this Licence within ninety (90) days of completion of the Modification. These plans and drawings shall be stamped by an Engineer.	Not Applicable <i>See above.</i>
H-1	The Board has approved the Plan entitled “Spill Prevention & Response Plan” dated July 2023 that was submitted as additional information with the Application.	Compliant and Ongoing



Table 4.6 NNC Conformance with Conditions of NWB Licence File No. 8BW-ANU2333
(cont'd).

NWB#	Condition	Status
H-2	The Licensee shall prevent any chemicals, petroleum products or Wastes associated with the Project from entering Water. All Sumps and fuel caches shall be located at a distance of at least thirty-one (31) metres above the ordinary High Water Mark of any adjacent water body and inspected on a regular basis.	Compliant and Ongoing
H-3	The Licensee shall conduct any equipment maintenance and servicing in designated areas and shall implement special procedures (such as the use of drip pans) to manage motor fluids and other Waste and contain potential spills.	Compliant and Ongoing
H-4	If during the term of this Licence, an unauthorized discharge of Waste occurs, or if such a discharge is foreseeable, the Licensee shall: a. Employ the approved Spill Contingency Plan; b. Report the spill immediately to the NWT/NU 24-Hour Spill Line at (867) 920-8130 and to the Inspector at (867) 975-4295; and c. For each spill occurrence, submit to the Inspector, no later than thirty (30) days after initially reporting the event, a detailed report that will include the amount and type of spilled product, the GPS location of the spill, and the measures taken to contain and clean up the spill site.	Not Applicable <i>No unauthorized discharge of waste occurred in 2023.</i>
H-5	The Licensee shall, in addition to Part H, Item 4, regardless of the quantity of releases of harmful substances, report to the NWT/NU 24-Hour Spill Line if the release is near or into a water body.	Not Applicable <i>Releases of any harmful substance did not occur in 2023.</i>
I-1	The Licensee shall carry out progressive reclamation of any components of the Project no longer required for the Licensee's operations.	Not Applicable <i>Reclamation activities did not occur in 2023.</i>
I-2	The Licensee shall remove from the site, all infrastructure and site materials, including all fuel caches, drums, barrels, buildings and contents, material, and equipment prior to the expiry of this Licence.	Not Applicable <i>No materials were stored at site in 2023.</i>
I-3	In order to promote growth of vegetation and the needed microclimate for seed deposition, all disturbed surfaces shall be prepared by ripping, grading, or scarifying the surface to conform to the natural topography.	Compliant and Ongoing
I-4	The Licensee shall re-establish vegetation and/or stabilize exposed soils before removing erosion control measures.	Compliant and Ongoing
I-5	The Licensee shall restore the drainage to match the natural channel. Measures shall be implemented to minimize erosion and sedimentation.	Compliant and Ongoing

Table 4.6 NNC Conformance with Conditions of NWB Licence File No. 8BW-ANU2333
(cont'd).

NWB#	Condition	Status
I-6	Areas that have been contaminated by hydrocarbons shall be reclaimed to meet objectives as outlined in the Government of Nunavut's Environmental Guideline for Site Remediation, 2010. The use of reclaimed soils for the purpose of back fill or general site grading may be carried out only upon consultation and approval by the Government of Nunavut, Department of Environment and an Inspector.	Not Applicable <i>There were no areas onsite contaminated by hydrocarbons in 2023.</i>
I-7	The Licensee shall contour and stabilize all disturbed areas to reduce erosion and sedimentation to Water, upon completion of the undertaking and as per Part I, Item 4.	Compliant and Ongoing
I-8	The Licensee shall submit to the Board for review and acceptance a road maintenance plan at least sixty (60) days prior to road maintenance work.	Not Applicable <i>Road construction was not completed in 2023, therefore maintenance was not necessary.</i>
J-1	The Licensee shall monitor all activities for signs of erosion and shall implement and maintain sediment and erosion control measures prior to the undertaking to prevent entry of sediment into any water body.	Compliant and Ongoing
J-2	The Licensee shall obtain a digital photographic record of the water crossing before, during, and after the completion of construction activities.	Compliant and Ongoing <i>Photographs of the stream prior to water crossings construction are included in the appended WQMR.</i>
J-3	The Licensee shall determine the GPS co-ordinates (in degrees, minutes and seconds of latitude and longitude) of the location where the watercourse crossings (culverts) are located.	Compliant and Ongoing <i>Culvert was not constructed in 2023, however the co-ordinates of the location planned are provided in the WQMR.</i>



Table 4.6 NNC Conformance with Conditions of NWB Licence File No. 8BW-ANU2333 (cont'd).

NWB#	Condition	Status
J-4	The Licensee shall, during periods of flow or following a major precipitation event, conduct monitoring on a monthly basis, prior to, during and following construction of water crossings, immediately upstream and downstream for criteria listed under Part E, Items 6 and 7.	Compliant and Ongoing <i>Details provided in the appended WQMR.</i>
J-5	The Licensee shall implement water crossings visual inspection and maintenance program prior to and during spring freshet and after heavy rainfall events to identify issues relating to watercourse crossings structural integrity and hydraulic function.	Compliant and Ongoing <i>Details provided in the appended WQMR.</i>
J-6	All sampling, sample preservation and analyses shall be conducted in accordance with methods prescribed in the current edition of Standard Methods for the Examination of Water and Wastewater, or by such other methods approved by the Board in writing.	Compliant and Ongoing <i>Details provided in the appended WQMR.</i>
J-7	All analyses shall be performed in a laboratory accredited according to ISO/IEC Standard 17025. The accreditation shall be current and in good standing.	Compliant and Ongoing <i>Laboratory certificates are included in the WQMR.</i>
J-8	The Licensee shall include in the Annual Report required under Part B, Item 1 all data, monitoring results and information required by this Part.	Compliant and Ongoing <i>Details provided in the appended WQMR.</i>
J-9	An Inspector may impose additional monitoring requirements.	Not Applicable <i>None imposed in 2023.</i>
J-10	Modifications to the Monitoring Program may be made only upon written request and subsequent approval of the Board in writing.	Not Applicable <i>Modifications to the monitoring program were not requested in 2023.</i>



4.4 GN CGS Land Application Approval

NNC applied for a surface land lease with the GN for the access to land for the installation of a wind farm which was approved in March 2022. The leased land was then surveyed to allow for the land to be transferred in fee simple to the Hamlet of Sanikiluaq. The transfer in fee simple will occur when the construction is complete. Table 4.7 lists the terms and conditions of the approval and NNC's compliance with them during the 2023 reporting period.

Table 4.7 NNC Conformance with GN CGS Land Application Approval (SANI-265(40-2)22-001).

#	Condition	Status
CGS1	Council passed a motion on March 24, 2022 (#331-03-2022) approving the Land Application for a Wind Farm. It is unsure if the sketch was also reviewed at this time, as there is no mention of the sketch in the minutes. Council Minutes confirming the approval of the survey sketch are still being requested and are a condition of approval.	Compliant <i>Final survey plan approved February 2, 2023.</i>
#	Other Requirement	Status
CGS2	Upon the survey, a fee simple title be raised to the Municipality of Sanikiluaq. Leasehold interest will be established to Nunavut Nukkiksautiit Corporation as their land application to lease the lot was approved by the Hamlet per motion #331-03-2022.	Compliant and Ongoing <i>Lease agreement has been approved and an application for fee simple title is being prepared.</i>
CGS3	The applicant shall review Section 4 of the Zoning By-law to ensure the project conforms with other regulations and obtain the required approvals from all applicable agencies and departments.	Compliant and Ongoing.
CGS4	A final survey plan must be prepared in accordance with the attached layout.	Compliant <i>Final survey plan approved February 2, 2023.</i>
CGS5	There is some potential for the proposed subdivision to contain archaeological sites protected by the Archaeological and Palaeontological Sites Regulations and Historical Resources Act. Please notify the Department of Culture and Heritage at (867) 934-2035 or Territorial Archaeologist at (867) 934-2040 should an archaeological site or specimen, or a Palaeontological site or fossil be encountered or disturbed by any land use activity.	Compliant and Ongoing <i>Archaeological study was carried out in July 2023. Historic sites were avoided during the construction season.</i>
CGS6	Persons operating in and around the proposed subdivision shall comply in full with the relevant Federal, Territorial and Municipal Statutes and By-laws, Permits and Quarry Agreements.	Compliant and Ongoing



Table 4.7 NNC Conformance with GN CGS Land Application Approval (SANI-265(40-2)22-001) (cont'd).

#	Other Requirement	Status
CGS7	Any alterations to the preliminary approval on the layout or the requirements of this letter must be confirmed in writing by the Planning and Lands Division.	Compliant and Ongoing
CGS8	Sketch Plan Approval is VALID FOR ONE YEAR and the final approval of the subdivision must occur during this period. Failure to do so will result in this application being filed and a new application will be required.	Compliant <i>Final survey plan approved February 2, 2023.</i>

4.5 Hamlet of Sanikiluaq Land Use Permit

The Hamlet of Sanikiluaq's Land Administration By-Law #27 states that a Land Use Permit (LUP) will be required for the project as stipulated in Appendix F of the By-Law. The levelling, grading, clearing, or cutting of any trail or right of way exceeding two meters in width (6 feet) requires a LUP. An application was submitted to the Hamlet and referred to the Commissioner's Land Administrator on September 15, 2023. The Land Use Permit (#LUP-2023-003) was issued to NNC on October 18, 2023. Table 4.8 lists the terms and conditions of the permit and NNC's compliance with them during the 2023 reporting period.

Table 4.8 NNC Conformance with GN CGS Land Use Permit LUP-2023-003.

#	Condition	Status
LUP1	The Permit holder may occupy the subject lands for the purpose of installing magazines to support storage of explosives.	Not Applicable <i>Explosives were not stored or used onsite in 2023.</i>
LUP2	The Permit holder shall provide to the Commissioner of Nunavut a valid Natural Resources Canada Explosive Licence, prior to the issuance of the Land Use Permit. The Permit holder shall maintain their Natural Resources Canada Explosive Licence for the duration of the Land Use Permit term.	Not Applicable <i>There are no plans to store or use explosives.</i>
LUP3	The Permit holder may occupy the subject lands for a period commencing from October 16, 2023, to October 16, 2024.	Compliant and Ongoing
LUP4	The total rental fee shall be One Dollars (\$1.00) per annum.	Compliant and Ongoing
LUP5	The Permit holder shall ensure that proper signage is installed and maintained to ensure that unauthorized persons are aware of dangers associated with activities on the subject lands.	Compliant and Ongoing
LUP6	It shall be responsibility of the Permit holder to maintain road access to the site by grading and or snow clearing.	Compliant and Ongoing



Table 4.8 NNC Conformance with GN CGS Land Use Permit LUP-2023-003 (cont'd).

#	Condition	Status
LUP7	On the termination of this Permit, and with no subsequent renewal of this Permit, the subject lands shall be restored to a condition that is satisfactory to the Commissioner of Nunavut and/or the Municipality of Sanikiluaq. Consideration shall be given to the previous use of the site, public safety, drainage conditions, removal and proper disposal of surface debris or waste associated with Permit holder activities, and remediation of any soil or groundwater contaminants resulting from Permit holder activities.	Not Applicable <i>Permit is still in effect in 2023.</i>
LUP8	The Permit holder may sever and remove from the land all structures, fixtures, and improvements which during the term of occupancy were affixed or placed at its expense on the land, saving and excepting all land fill materials and culverts, except at the specific request of the Commissioner of Nunavut and/or the Municipality of Sanikiluaq.	Not Applicable <i>Removal of structures did not occur in 2023.</i>
LUP9	The Permit holder agrees in all respects to abide by and comply with all applicable lawful rules, regulations and by-laws of the Federal Government, Territorial Government, or any other governing body whatsoever that have been or may be enacted and, in any manner, affect the said land.	Compliant and Ongoing
LUP10	The Permit holder shall indemnify and hold harmless the Commissioner of Nunavut, its, employees and agents, against and from any and all loss, claims, actions or suits, costs (including, but not limited to, legal fees on a solicitor and client basis), for or on account of injury, bodily or otherwise, to, or death of, persons or animals, damage to or destruction of property, by reason of anything done or omitted to be done by the Permit holder in breach of this Permit.	Compliant and Ongoing
LUP11	This Permit is non-transferable and may be revoked or cancelled by the Commissioner of Nunavut at any time for any breach of conditions herein, or if the Commissioner of Nunavut require the lands for other purposes.	Compliant
LUP12	The Permittee shall ensure that appropriate spill response equipment and clean-up materials (e.g., shovels, pumps, barrels, drip pans, and absorbents) are readily available during any transfer of fuel or hazardous substances.	Compliant and Ongoing
LUP13	The Permittee shall ensure that all personnel are properly trained in fuel and hazardous waste handling procedures, as well as spill response procedures. All spills of fuel or other deleterious materials of any amount must be reported immediately to the 24-hour Spill Line at (867) 920-8130.	Compliant and Ongoing



Table 4.8 NNC Conformance with GN CGS Land Use Permit LUP-2023-003 (cont'd).

#	Condition	Status
LUP14	The Permittee shall not use water, construct or disturb any stream, lakebed or the banks of any definable water course unless otherwise authorized by the Nunavut Water Board.	Compliant and Ongoing See Section 4.3.
LUP15	The Permittee shall provide to the Department of Community and Government Services at least forty-eight (48) hours prior to commencement of this land use operation the following information: a) Person, or persons, in charge of the field operation to whom notices, order and reports may be served; b) Alternatives; c) All the methods of contacting the above person(s).	Compliant <i>CGS was notified on October 18, 2023 and provided contact information for representatives of Silak-Municipal and Growler (as an alternate).</i>

4.6 Aeronautical Assessment Approvals

When planning to install a new structure that could be an obstacle to air navigation, notification to the appropriate Federal offices such as Transport Canada, NAV Canada, and the Royal Canadian Air Force (RCAF) is required. The wind turbine associated with this Project warrants an approval from these offices so that they can assess the structural plans to determine whether the turbine will impact any flight procedures. The NNC submitted applications to Transport Canada – Aeronautical Assessment for Obstruction Evaluation, NAV Canada - Land Use Proposal, and RCAF – Wind Turbine Impact Assessment for Industry to ensure that the location planned for the wind turbine (and thereby the path of the access road) was acceptable. These approvals were received respectively on May 4, 2023, August 16, 2023, and May 1, 2023 with terms and conditions. Table 4.9 lists the terms and conditions of these approvals and NNC's compliance with them during the 2023 reporting period.

Table 4.9 NNC Conformance with TC Aeronautical Assessment (#2023-184), NAVCAN (#23-1639), and RCAF (#23-1639).

#	Condition	Status
TC1	Assessment is valid for 18 months from the date the inspector signed (2023-04-27).	Compliant and Ongoing <i>Valid until October 27, 2024</i>
TC2	Mark and light in accordance with Standard 621 for night, day, and temporary protection. In order to ensure conspicuity of turbines at night during construction, all turbines are lit with temporary lighting once they reach a height of 60 m or greater until such time the permanent lighting for the wind farm in total is turned on.	Not Applicable <i>Turbine was not procured during this reporting period.</i>



Table 4.9 NNC Conformance with TC Aeronautical Assessment (#2023-184), NAVCAN (#23-1639), and RCAF (#23-1639) (cont'd).

#	Condition	Status
TC3	A "Construction Progress Notice" is required to be completed and sent back to aviation.pnraaf-rpnfea@tc.gc.ca at the end of the construction work to close the file.	Not Applicable <i>Construction has not commenced during this reporting period.</i>
NAV1	Any construction equipment exceeding the height of this submission must be submitted at least 30 days prior to usage	Not Applicable <i>NNC will submit a separate assessment for the crane when appropriate.</i>
NAV2	NAV CANADA's land use evaluation is based on information known as of the date of this letter and is valid for a period of 18 months, subject to any legislative changes impacting land use submissions.	Compliant and Ongoing <i>Valid until February 16, 2025.</i>
NAV3	If there are any additional turbines to be included, (besides the one presented) a separate assessment will be needed.	Not Applicable. <i>NNC does not intend to construction additional turbines at this time.</i>
NAV4	The transmission line requires a separate assessment	Not Applicable. <i>NNC will submit a separate assessment for the transmission line when appropriate.</i>
NAV5	Notification of construction is required at least 10 business days prior to start.	Not Applicable <i>Construction has not commenced during this reporting period.</i>
RCAF1	The concurrence for the site is valid for 24 months from dates of correspondence (2023-04-28).	Compliant and Ongoing <i>Valid until April 28, 2025.</i>
RCAF2	If the layout were to change/move, a resubmission will be required for another assessment.	Compliant and Ongoing
RCAF3	Although not mandatory, the agency asks the proponent to consider installing Night Vision Goggle (NVG) compliant lighting so that they are visible to pilots during NVG operations.	Not Applicable <i>Construction has not commenced during this reporting period.</i>

4.7 Archaeological Assessment Permit

A Class 1 permit application for an archaeological assessment was submitted on June 9, 2023. This assessment was required to be completed before construction could commence. On June 30, 2023, the NNC received approval through the contracted archaeologist who began the assessment on July 22nd, 2023. Table 4.10 lists the terms and conditions of this permit and NNC's compliance with them during the 2023 reporting period.

Table 4.10 NNC Conformance with Archaeological Permit No. 2023-63A.

#	Condition	Status
AP1	Visual barriers must be installed with a 50m buffer zone around the observed archaeological sites before construction can commence. This includes the previously discovered site HdGt-26 near the local quarry.	Compliant <i>The discovered archaeological sites were demarcated and avoided by all site personnel in 2023.</i>
AP2	Submit a one-page non-technical summary report and two colour photographs to GN DCH by September 30, 2023	Compliant <i>Non-technical summary was submitted to GN DCH on Sept 21, 2023.</i>
AP3	Submit site forms and maps to GN DCH 60 days after return from field.	Compliant <i>Site forms and maps were submitted to GN DCH on Aug 1, 2023.</i>
AP4	Submit Archaeological Report to GN DCH, Canadian Museum of Nature, and Inuit Heritage Trust by March 31 st , 2024	Compliant <i>Archaeological Report was submitted to GN DCH on Dec 9, 2023.</i>

4.8 DFO Request for Review

On April 12, 2023, DFO received a proposal for culvert installations in Sanikiluaq during the 2023 construction season. DFO provided the following recommendations for implementation to avoid and mitigate the potential for prohibited effects to fish and fish habitat. An authorization under the *Fisheries Act*, the *Aquatic Invasive Species Regulations* or the *Species at Risk Act* was not required because the following recommendations were (or are planned to be) implemented, as demonstrated below in Table 4.11.

Table 4.11 NNC Conformance with DFO Response Letter Recommendations (23-HCAA-00697).

#	Recommendation	Status
DFO1	Plan in-water works, undertakings and activities to respect timing windows to protect fish, including their eggs, juveniles, spawning adults and/or the organisms upon which they feed and migrate.	Compliant
DFO2	Dewater gradually to reduce the potential for stranding fish when capturing, relocating, and monitoring for fish trapped within isolated, enclosed, or dewatered areas.	Not Applicable <i>In-stream works did not occur during the reporting period.</i>
DFO3	Use the code of practice for water intake screens to prevent entrainment or impingement of fish.	Not Applicable <i>In-stream works did not occur during the reporting period.</i>
DFO4	Limit impacts on riparian vegetation to those approved for the work, undertaking or activity including: <ul style="list-style-type: none"> • Limit access to banks or areas adjacent to waterbodies; • Construct access points and approaches perpendicular to the watercourse or waterbody; and • Re-vegetate the disturbed area with native species suitable for the site. 	Compliant
DFO5	Restore stream geomorphology (i.e., restore the bed and banks, gradient and contour of the waterbody) to its initial state.	Not Applicable <i>Restoration is planned for future phases of the project.</i>
DFO6	Develop and implement an erosion and sediment control plan to avoid the introduction of sediment into any waterbody during all phases of the work, undertaking or activity including: <ul style="list-style-type: none"> - Conduct all in-water works, undertakings or activities in isolation of open or flowing water to reduce the introduction of sediment into the watercourse; - Use the code of practice for temporary cofferdams and diversion channels; - Schedule work to avoid wet, windy and rainy periods (and heed weather advisories) that may result in high flow volumes and/ or increase erosion and sedimentation; and - Monitor the watercourse to observe signs of sedimentation during all phases of the work, undertaking or activity and take corrective action. 	Compliant <i>Measures for erosion and sediment control, and watercourse monitoring, are prescribed in the appended EPP. In-water works did not occur in 2023.</i>
DFO7	Develop and implement a response plan to avoid a spill of deleterious substances.	Compliant <i>See appended SPRP.</i>
DFO8	Notify DFO office at least 10 days before starting the project and a copy of the recommendations are kept on site while the work is in progress.	Compliant and Ongoing

5.0 Management Plan Updates

Table 5.1 provides a list of active Management Plans for the Project, including reference to their numbering system within the Environmental Management Program. Current versions of the Construction Environmental Protection Plan (EPP), the Permitting Registry (PR), the Spill Prevention and Response Plan (SPRP), and the Stakeholder Engagement Plan (SEP) are appended. Copies of other management plans are available upon request, apart from the Historic Resources Management Plan due to the confidential nature of the contents.

Table 5.1 Management Plans Index for the Anuriqjuak Project.

Plan Name	Abbreviation and Revision #	Current Revision Date
Construction Environmental Protection Plan	EPP V1.0	September 2023
Permitting Registry	PR	January 2024
Waste Management Plan	WMP V1.0	August 2023
Emergency Response Plan - Phase 1: Construction	ERP V1.0	July 2023
Spill Prevention and Response Plan	SPRP V1.2	September 2023
Historic Resources Management Plan	HRMP V1.0	October 2023
Stakeholder Engagement Plan	SEP V1.0	February 2024

6.0 Project Management Team Contact List

Table 6.1 lists the primary persons responsible for various aspects of the Anuriqjuak Project. Concerns or questions regarding the contents of this report may be directed to Heather Shilton, Keith Dровер, and Brittany Connolly.

Table 6.1 Project Management Team Contact Information.

Company	Contact	Telephone	Email
NNC	Heather Shilton, Director	(867) 979-8400	nnc@qcorp.ca
Growler Energy	Keith Dровер, Project Manager	(709) 730-0582	keith.drover@growlerenergy.com
CPL	Greg Sheppard, Construction Project Manager	(403) 386-6705	gsheppard@canprojects.com
SEM	Brittany Connolly, Environmental Manager	(709) 754-0499	brittany.connolly@semltd.ca
Silak Municipal	Barry Greene Construction Site Superintendent	902-222-8995	bgreene@dexter.ca
Hamlet of Sanikiluaq	Ronald Ladd, Senior Administration Officer	(867) 266-7901	sao@sanikiluaq.ca

7.0 References

Ecometrix. (2023). *Borrow Materials ARD/ML Study*. Mississauga.

Murray, N. (2023). *Sanikiluaq wind project represents major Nunavut renewable energy policy shift*. Iqaluit: CBC News. Retrieved from <https://www.cbc.ca/news/canada/north/sanikiluaq-wind-project-anuriqjuak-nukkiksautiit-1.6968052>

Nunavut Nukkiksautiit Corporation. (2023, September 29). *Sanikiluaq Switching to Wind Power –Energy Purchase Agreement Signed Between Qulliq Energy Corporation and Nunavut Nukkiksautiit Corporation for Nunavut’s First Community-Led, Inuit-Owned Renewable Energy Project*. Retrieved from Nunavut Clean Energy News: https://static1.squarespace.com/static/5f3d74b4a9dcb80048638a3f/t/651d72e25c114e6f630f989d/1696428770637/2023.09.29_Anuriqjuak+EPA+Signing+Ceremony_Media+Release.pdf



8.0 Signature Page

Nunavut Nukkiksautiit Corporation

The undersigned Certify that, as part of their role in managing the Project, they have reviewed this report and certify the information herein to be true:

Anuriqjuak Nukkiksautiit Project 2023 Annual Report

Keith Drover

Name (PRINT)

Project Manager

NGL LP

A handwritten signature in blue ink, appearing to read 'Keith Drover'.

Name (SIGN)

March 27, 2024

Date

Brittany Connolly

Name (PRINT)

Environmental Manager

SEM

A handwritten signature in black ink, appearing to read 'Brittany Connolly'.

Name (SIGN)

March 28, 2024

Date