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Nunavut Nukkiqsautiit Corporation

Iqaluit Nukkiqsautiit Project:
Abandonment & Restoration Plan

Version: 2.0

Date: June 2026

Investigative Studies for the Iqaluit Nukkiqsautiit Project

Abandonment & Restoration Plan

Prepared for:

Nunavut Water Board
PO Box 119
Gjoa Haven, NU Z0B 1J0

Prepared by:

Nunavut Nukkiqsautiit Corporation
5300 Qulliq Court, 1st Floor
Iqaluit, NU X0A 2H0



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Plan Maintenance and Control

Nunavut Nukkiqsautiit Corporation (NNC) is responsible for the distribution, maintenance and updating of the Abandonment and Restoration Plan (ARP). The ARP will be reviewed and revised, as required:

- As needed, but annually at minimum, accounting for changes in laws, regulations, environmental factors, Government of Nunavut (GN) and NNC policies, and any other applicable site-specific changes; and/or
- Following any Project changes.

Minor changes (e.g., phone numbers, names of individuals, etc.) that do not affect the purpose of the ARP are to be made on a regular basis. Plan updates will be issued as per the ARP distribution list. The ARP plan holder is responsible for adding new and/or removing obsolete pages upon receipt of updates.

Abandonment & Restoration Plan Document History

Version #	Section(s) Revised	Prepared By	Approved By	Date Issued
1	--	S. Brown	J. Byrne	April 2025
2	3.1.9, 3.2, and Appendix A	S. Brown		

Index of Major Changes/Modifications in Latest Revision

Item #	Description of Change	Relevant Section
1	Included that progressive and final reclamation and closure activities will be submitted with annual reports	3.1.9
2	Included a sentence that final restoration work will be completed prior to expiry of the NWB Water Licence No: 8BC-INP2631.	3.2
3	Replaced Temporary Camp Layout with an updated image.	Appendix A



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1.0 Introduction

This Abandonment and Restoration Plan (ARP or the Plan) has been developed to describe the procedures and commitments that will be implemented to decommission and restore all disturbed areas associated with the temporary field camp used to support the Investigative Studies for the Iqaluit Nukkiqsautiit Project (the Project). The ARP is intended to support regulatory approvals, including a Type B Water Licence from the Nunavut Water Board, and to demonstrate that site closure will be completed in a manner that protects the environment and prevents long-term impacts.

This Plan will guide closure activities for the Project and will be implemented by the Nunavut Nukkiqsautiit Corporation (NNC) and their contractors.

2.0 Project Description

The investigative studies are being conducted to characterize key environmental and geotechnical conditions within the study area to support the assessment of the feasibility of the overall proposed Iqaluit Nukkiqsautiit Project (INP). These studies are intended to inform engineering design, environmental baseline development, and future regulatory processes.

The INP is a proposed renewable energy development located on Hall Peninsula, Baffin Island in Nunavut. The INP is anticipated to include a hydroelectric dam, powerhouse, access infrastructure, and a transmission line connecting the generation facility to the City of Iqaluit. The proposed generating capacity is approximately 15 to 30 megawatts (MW). The project area includes a small unnamed lake located approximately 55 kilometres northeast of Iqaluit, as well as the proposed transmission corridor extending between the lake and Iqaluit.

The INP is an Inuit-led initiative being advanced by NNC, a 100% Inuit-owned organization. To support the development of the INP, NNC has engaged a multidisciplinary team of consultants with expertise in environmental sciences, geotechnical engineering, and regulatory processes. This team is supporting the implementation of Year 3 environmental and geotechnical investigative studies within the Kuugaaluk South study area.

Field activities are supported by a temporary field camp established within the Project area. The camp serves as a centralized base of operations for personnel, equipment, and logistical coordination. Its use enables safe and efficient access to study locations while minimizing



the overall footprint of field activities. Upon completion of the investigative studies, the temporary camp and all associated infrastructure will be decommissioned and removed in accordance with the commitments outlined in this Abandonment and Restoration Plan.

The results of the investigative studies will contribute to the overall understanding of environmental and geotechnical conditions within the Project area and will inform the design, assessment, and regulatory review of the INP.

2.1 Location and Access

The temporary field camp is located within the Kuugaaluk South study area, near the head of an unnamed lake.

Table 1 Coordinates of Temporary Camp and Support Facilities

Label	X	Y	Coordinates
Helicopter Landing Pad	068° 01' 9.62" W	64° 11' 32.66" N	64° 11' 32.66" N, 068° 01' 9.62" W
Fuel Storage Cache	068° 01' 7.38" W	64° 11' 33.68" N	64° 11' 33.68" N, 068° 01' 7.38" W
Water Intake	068° 01' 4.53" W	64° 11' 31.72" N	64° 11' 31.72" N, 068° 01' 4.53" W
Camp Location	068° 01' 6.96" W	64° 11' 32.76" N	64° 11' 32.76" N, 068° 01' 6.96" W

A map of the area, based on imagery from the 2025 study year, is located in Appendix A.

2.2 Camp Description

To support the continued investigative field programs, NNC will re-establish a 30-person temporary base camp near the head of the unnamed lake. It will be active beginning in June 2026 to mid-October 2026 and June 2027 to mid-October 2027. All materials required for the camp set-up will be slung in by helicopter. Table 2 to Table 4 lists the planned infrastructure and equipment for the site, and the fuel storage capacity.



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Table 2 Camp Infrastructure

Quantity	Description
7	Single occupancy accommodation tents
8	Double occupancy accommodation tents
1	Large tent to house kitchen and dining
4	Shower and sanitation facilities
1	Storage tent
1	Drill equipment room
1	Mini lab
1	Core logging and storage facility
1	Chiller facility (to chill brine and cores)

Table 3 List of Support Equipment

Type and Number	Size	Proposed Use
2 x Honda water pump	3hp	Water use
2 x Honda water pump	4hp	Water use
2 x Yamaha generator (gas)	6000isd	Heat and light for the camp facility
1x Champs generator (diesel)	30kw	Heat and light for the camp facility
1 x Honda generator (gas)	1000w	Heat and light for the camp facility
1 x Honda ATV (gas)	350cc	Camp assembly assistance, limited on site mobility
1 x CanAm ATV (gas)	1000cc	Camp assembly assistance, limited on site mobility
1 x Suzuki outboard motor (gas)	4hp	Boat motor for aquatic field work
8 x Solar panels	100W	To supplement the use of diesel and gas generators providing power to the camp facility
4 x Batteries	120Amp	To supplement the use of diesel and gas generators providing power to the camp facility
16 x Inverters	1000W	To supplement the use of diesel and gas generators providing power to the camp facility
Canoe (1 unit)	22 ft	Aquatic assessments



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Type and Number	Size	Proposed Use
Helicopter (1 unit)	Not specified	Transport personnel and equipment
Outboard motor (1 unit)	Suzuki 4hp (Gas)	Boat motor for aquatic field work
GPS units	Not specified	Terrestrial, Avian, Archaeological surveying
Trail cameras	Motion-activated	Assess caribou and other terrestrial wildlife presence and movement
Digital cameras	Not specified	Wildlife, habitat, archaeological surveying
Water quality meters, sampling kits, nets	Not specified	Aquatic surveys
Binoculars	Not specified	Avian surveys
Firearms (Rifle/Shotgun)	Not specified	Bear deterrence and safety (handled by trained personnel)
Radios/Phones/Starlink	Satellite phones, VHF handheld radios, Starlink system	Emergency communications, project coordination
Cordless drills (4 units)	Milwaukee	Camp construction and operation
Hand tools (e.g., trowels, flagging tape)	Not specified	Archaeological surveys
Spill Kits, First Aid Kits, Fire Extinguishers	Not specified	Containment and response for emergencies
1 x Chiller (Camp Site)	72x44x42'	Chill brine and cores
1 x Drill (Rig Site)	12x4x28'	Drilling
2 x Chiller (Rig Site)	72x44x42'	Chill brine and cores
2 x Mixing Tank (Rig Site)	7.5x3.3x3.3'	Mixing bentonite and chilled brine
2 x Generator (Rig Site)	26x18x22'	Power for core shacks

Table 4 Fuel Storage Capacity

Type	Max Quantity	Description
Diesel	3 x 205 L drums	A cache of diesel for site equipment
Gasoline	3 x 205 L drums	A cache of gasoline for site equipment
Propane	2 x 100 lbs. tank	A cache of propane for heating and cooking purposes
Diesel	6 x 205 L drums	A separate cache of diesel for the drills
Aviation Fuel	21 x 205 L drums	A cache of jet fuel for helicopter. Weekly supply on hand



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3.0 Abandonment and Restoration Approach

The following subsections outline the procedures that will be implemented to decommission Project components and restore all disturbed areas following seasonal closure, and final closure of the investigative studies. All restoration activities will be completed at the end of the Project, ensuring that the site is returned to a stable condition with no long-term environmental impacts, including those related to water quality and waste.

3.1 Seasonal Closure

Following the investigative studies, seasonal closure typically occurs between November to May. Typical activities associated with season closure are provided below.

3.1.1 Progressive Reclamation

Where feasible, progressive reclamation will be undertaken throughout the field program to minimize the overall disturbance footprint. This may include the removal of waste materials, dismantling of unused equipment, and stabilization of disturbed areas as work is completed. Progressive reclamation will reduce the scope of end-of-season closure activities and support timely restoration of the site.

3.1.2 Buildings and Content

All infrastructure not required for approved reuse in a subsequent field season will be dismantled and removed from the site at the end of the field season. All contents, including furnishings, equipment, and supplies, will be inventoried and removed. Inert materials such as tent frames and platforms, metal anchors, and ropes may remain on site for reuse in subsequent field seasons. These materials will be securely stored and maintained in a manner that prevents environmental impact or site disturbance. No materials will be left on site unless otherwise approved. The camp area will be inspected following removal to ensure no debris or materials remain.

3.1.3 Electrical System

All electrical systems, including generators, fuel-powered units, temporary wiring, lighting, and associated equipment, will be disconnected, dismantled, and removed from the site. Any



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generator pads or temporary supports will also be removed. Areas disturbed by electrical installations will be recontoured as required to match surrounding conditions.

3.1.4 Water System

All water management infrastructure will be decommissioned and removed at the end of the field season.

Greywater generated from camp activities (e.g., washing and cooking) will be directed to designated greywater sumps located at appropriate setbacks from water bodies during operations. At closure, greywater sumps will be inspected to confirm no standing water or contamination remains and will be backfilled with native materials and contoured to blend with surrounding terrain.

Blackwater (sewage) will be managed using portable systems (e.g., sealed containers) and will be removed from site for disposal at an approved facility in Iqaluit. No sewage will be disposed of on-site. Any temporary storage areas will be cleaned and inspected to confirm no residual contamination.

3.1.5 Waste Management

All solid and hazardous waste generated during the program will be collected, segregated, and stored in appropriate containers during operations. At the end of the field season, all waste will be removed from the site and transported to approved disposal or recycling facilities in Iqaluit.

Waste streams will include domestic waste, construction debris, and hazardous materials such as used oil, fuel containers, and batteries. A final inspection will be conducted to confirm that all waste has been removed.

An authorization from Iqaluit receiving wastes from the Project will be obtained and provided to the regulator prior to any backhauling and disposal of wastes. Hazardous material will be disposed of at licensed facilities in accordance with the Cross-Border Movement of Hazardous Waste and Hazardous Recyclable Material Regulations. The Project will maintain records of all waste backhauled to confirm proper disposal.



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3.1.6 Fuel and Hazardous Materials

All fuel and hazardous materials, including petroleum products, lubricants, and chemicals, will be removed from the site at the end of the field season. Fuel storage areas will be inspected for evidence of spills or staining.

In the event that contamination is identified, impacted soils will be excavated and removed for appropriate disposal as determined in the Spill Prevention and Response Plan (NNC, 2025). Spill response materials will be used as necessary to address any residual impacts. All secondary containment systems will be dismantled and removed.

3.1.7 Drilling Areas Restoration

All drill sites will be decommissioned upon completion of drilling activities. Each site will be inspected for soil contamination. Any contaminated soil will be collected as outlined in the NNC Spill Prevention and Response Plan (NNC, 2025) and removed from site for proper disposal. Drill holes will be properly abandoned by cutting off drill collars as close to the ground surface as possible, and capped. Drill casings will be removed within two (2) years after drilling.

Drill pads, sumps, and any associated materials will be removed. Disturbed areas will be recontoured to match surrounding terrain and inspected to ensure stability and absence of debris or contamination. It is currently planned to leave behind bedrock cores during seasonal closure. Drill cores will be stored at least thirty-one (31) m above the ordinary high water mark of any water body.

Any drill holes with artesian flow encountered will be immediately sealed and permanently capped to prevent induced contamination of groundwater or salinization of surface waters.

3.1.8 Site Restoration

Following the removal of all Project components, the site will be restored to a condition consistent with the surrounding environment. All equipment, materials, fuels, and wastes will be removed from the site, and the area will be inspected to identify any remaining debris or evidence of contamination. Any disturbed ground will be recontoured to approximate natural grade and stabilized as needed to prevent erosion or sediment transport. Where required, appropriate erosion control measures will be implemented. Restoration efforts will aim to



return the site to pre-disturbance conditions in accordance with applicable land use agreements, with natural regeneration relied upon for vegetation recovery.

3.1.9 Documentation

Upon completion of abandonment and restoration activities, a final inspection of the site will be conducted to verify that all Project components have been removed and that no environmental hazards remain. This inspection will be carried out by the Project team and will include confirmation that closure objectives have been achieved. Photo documentation of site conditions will be collected to support verification of restoration activities.

A summary of progressive and final demobilization and restoration activities will be submitted in the annual report. Supporting documentation will be compiled and retained, including waste manifests, disposal records, spill/incident reports, and any corrective actions undertaken. These records will be maintained to demonstrate compliance with approved procedures and to support regulatory review if requested.

3.2 Final Closure

During final closure, the conditions are almost identical to the seasonal closure (Section 3.1). The only exceptions are as follows.

- All remaining camp infrastructure and materials, including any previously retained inert components (e.g., tent frames, tent platforms, metal anchors, and ropes), will be fully dismantled and removed from the site. All materials will be transported off-site for appropriate reuse, recycling, or disposal at approved facilities.
- All bedrock drill cores will be removed from the site.

All restoration work will be completed prior to the expiry of the NWB Water Licence No: 8BC-INP2631, June 2, 2031.



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4.0 Monitoring and Follow-Up

A post-closure inspection will be conducted within 30 days of demobilization to confirm successful restoration. Photo documentation and a summary report of site conditions will be prepared and provided to regulators if required.

5.0 Plan Management and Implementation

This Plan is intended to fulfill requirements associated with the water licence. As required, this Plan will be reviewed based on changes in operation and/or technology and modified as required, and at the re-commencement of additional investigative study years.

This Plan will be effective upon approval and will be valid throughout the investigative study field season. NNC is responsible for the implementation of the Plan. The following table lists the primary contacts and their roles that assist NNC with operational support of the Project.

Table 5 Project Management Team Contact Information

Company	Contact	Telephone	Email
NNC	Heather Shilton, Director	(867) 979-8400	hshilton@qcorp.ca
NNC	Jill Byrne, INP Project Manager	(867) 979-8400	jbyrne@qcorp.ca
NNC	Keith Drover, INP Project Director	(867) 979-8400	kdrover@qcorp.ca
Polar Outfitting	Alexander Flaherty	(867)975-1600	polaroutfitting@gmail.com

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6.0 References

NNC, 2025. NNC Spill Prevention and Response Plan, Investigative Studies for the Iqaluit Nukkiqsautiit Project, July 2025.



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7.0 Signature Page

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The undersigned Certify that, as part of their Environmental Orientation, they have reviewed and understand their roles and responsibilities regarding:

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Name of Employee (PRINT)

Company

Name of Employee (SIGN)

Date

Name of Manager/Supervisor (PRINT)

Company

Name of Manager/Supervisor (SIGN)

Date



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APPENDIX A

Temporary Camp Site Layout

**NUNAVUT
NUKKIKSAUTIIT
CORPORATION**
IQALUIT
NUKKIKSAUTIIT PROJECT
**TEMPORARY CAMP
LAYOUT**
FIGURE 9

- High Water Mark
- - - Camp Location to High Water Mark (197m)
- High Water Mark Setback (31m)
- Fuel Storage
- Groundwater/Sump
- Helicopter Landing Pad
- Outhouse
- Water
- Water Hose



MAP DRAWING INFORMATION
DATA PROVIDED BY: ESRI, DILLON CONSULTING LTD, NUNAVUT NUKKIKSAUTIIT CORPORATION, GOVERNMENT OF NUNAVUT, NATURAL RESOURCES CANADA, DILLON CONSULTING LIMITED, ECOLOGIC CONSULTANTS LIMITED, ESRI
MAP CREATED BY: -EES
MAP CHECKED BY: -MR
MAP PROJECTION: GCS North American 1983 CSRS



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SCALE 1:1,000
0 0.13 0.25 km

PROJECT: 25-1319
STATUS: DRAFT
DATE: 2026-05-14

