Nunavut Regional Office (NRO) 969 Sivumugiaq St. Iqaluit, NU X0A 3H0

Manager of Licensing Nunavut Water Board P.O. Box 119 Gjoa Haven, Nunavut X0B 1J0

January 23, 2025

Re: Water Use Licence Application for Pelly Lake Remediation Project

The Crown-Indigenous Relations and Northern Affairs Canada (CIRNAC) is submitting the enclosed application for Water Use Licence for the remediation of Pelly Lake site. All supporting documents are attached.

CIRNAC completed site investigations at Pelly Lake in 2006 and 2022, developed a remedial action plan (RAP), and proposes to commence remedial activities on the site starting from June/July 2025. The proposed work is detailed in the following General Water Licence and the Exploration/ Remote Camp Supplementary Questionnaire.

In addition to applying for a Water Use Licence, CIRNAC has also applied for Nunavut Planning Commission (NPC) Conformity Check, Nunavut Impact Review Board (NIRB) Screening and the Land Use authorization from CIRNAC.

If you have any questions or comments, please contact the undersigned or the Project Manager, Rachel Théorêt-Gosselin at Rachel.theoret-gosselin@rcaanc-cirnac.gc.ca, or by telephone at (867) 222-1732

Sincerely

Charlotte Lamontagne,

Director, Contaminated Sites Program, Nunavut

Tel: (867) 975-4730; Fax: (867) 975-4736

Email: charlotte.lamontagne@rcaanc-cirnac.gc.ca





List of Documents Submitted (Application & Supporting Documents)

APPLICATION:

- 1. Cover Letter of Application for Water Use Licence
- 2. Section 1 General Water Use Licence Application Form
- 3. Section 2 Exploration / Remote Camp Supplementary Questionnaire

SUPPORTING DOCUMENTS:

- 1. Executive Summary Pelly Lake Project (English version)
- 2. Executive Summary Pelly Lake Project (Inuktitut version)
- 3. Pelly Lake Project Remedial Action Plan (RAP)
- 4. Pelly Lake Project Spill Contingency Plan
- 5. Pelly Lake Project Site Maps Overall Site Plan, Site Plan, Borrow Sources, and Maps of Current Site Features
- 6. Pelly Lake Project Environmental Impact Assessment
- 7. Nunavut Planning Commission (NPC) Determination (NPC Conformity Check)
- 8. Nunavut Impact Review Board (NIRB) Screening Decision Report
- 9. Pelly Lake Project Archaeological Impact Assessment Report
- 10. Pelly Lake Project Human Health and Ecological Risk Assessment (HHERA)



General Water Licence Application (Application for a new Water Licence)

Document Date: April 2013

Application Submission Date:	
01/23/2025	
	Month/Day/Year

P.O. BOX 119 GJOA HAVEN, NUNAVUT XOB 1J0

Tel.: (867)360-6338 Fax: (867)360-6369 kNK5 wmoEp5 vtmpq NUNAVUT IMALIRIYIN KATIMAYIT NUNAVUT WATER BOARD OFFICE DES EAUX DU NUNAVUT

DOCUMENT MANAGEMENT

Original Document Date: April 2010

DOCUMENT AMENDMENTS

	Description	Date
(1)	Updated for public distribution as separate document	June 2010
	from NWB Guide 4	
(2)	Updated NWB logos and reformatted table to allow rows	May 2011
	to break across page	-
(3)	Update NWB logo	April 2013
(4)		
(5)		
(6)		
(7)		
(8)		
(9)		
(10)		



P.O. Box 119

TEL: (867) 360-6338

FAX: (867) 360-6369

kNK5 wmoEp5 vtmp5 GJOA HAVEN, NU X0B 1J0 NUNAVUT WATER BOARD NUNAVUT IMALIRIYIN KATIMAYIT OFFICE DES EAUX DU NUNAVUT

GENERAL WATER LICENCE APPLICATION (APPLICATION FOR NEW WATER LICENCE)

The applicant is referred to the NWB's Guide 4: Guide to Completing and Submitting a Water Licence Application for a New Licence for more information about this application form.

LICENCE NO: (for NWB use only)				
1. APPLICANT (PROPOSED LICENSEE) CONTACT INFORMATION (name, address)	2. APPLICANT REPRESENTATIVE CONTACT INFORMATION if different from Block 1 (name, address)			
Charlotte Lamontagne 969 Sivumugiaq St. Iqaluit, NU X0A 3H0	None			
Phone:(867) 975-4530				

NAME OF PROJECT (including the name of the project location) Pelly Lake Remediation Project

4. LOCATION OF UNDERTAKING

Project Extents

Latitude: (66 ° 3 '13.30" N) Longitude: (101 °3'21.19" W) NW: NE: Latitude: (66 ° 3 '19.68" N) Longitude: (101°3'1.03 " W) SE: Latitude: (66 ° 3 '9.23" N) Longitude: (101 °2 '19.15 " W) Latitude: (66 ° 2 '57.05" N) Longitude: (101° 2 '40.81" W) SW:

Camp Location(s)

Latitude: (66 ° 3 '4.74" N) Longitude: (101° 2 '35.68" W)

5. MAP - Attach a topographical map, indicating the main components of the undertaking.

The site is located 250 km northwest of Baker Lake. See Annex 5 for maps of the Site.

NTS N	/lap Sheet No.:	Map Name:	Map Scale:
6.			any of the following that are applicable to the e 'Surface' header must be checked).
	Sub-surface		
		Nunavut Tunngavik Incor of issuance:	porated (NTI) Date of expiry:
		Indian and Northern Affai of issuance:	rs Canada (INAC) Date of expiry:
	Surface		
		nthorization from Indian and of issuance:March 31st,	d Northern Affairs Canada (INAC) 2025 Date of expiry:
			tikmeot Inuit Association (KIA) Date of expiry:
		rom Kivalliq Inuit Association of issuance:	on (KivIA) Date of expiry:
		rom Qikiqtani Inuit Associa of issuance:	ution (QIA) Date of expiry:
	☐ Commissioner's La Date (expected date) o		Date of expiry:
	Other:	of issuance:	Date of expiry:
Name	of entity(s) holding auth		
7.	NUNAVUT PLANNING	G COMMISSION (NPC) D	ETERMINATION
	Indicate the land use p	planning area in which the	project is located.
	☐ North Baffin ☐ South Baffin ☐ Akunniq	☐ Sani	watin kiluaq Kitikmeot
	Is a land use plan con	formity determination requ	ired?
	X Yes	□No	
		sued and attach copyA confirmation from NPC cor	ugust 22nd, 2024 firming that a land use plan conformity review

8.	NUNAVUT IMPACT I	EVIEW BOARD (NIRB) DETERMINATION	
	Is an Article 12 Part 4 screening determination required?		
	X Yes	□No	
		sued and attach copy _November 29th, 2024_confirmation from NIRB confirming that a screening determination	is not

9. DESCRIPTION OF UNDERTAKING – List and attach plans and drawings or project proposal.

The Pelly Lake Site (the Site) is a former airstrip and fuel cache site. It was reportedly used as a base and airstrip from 1954 to 1956 by Spartan Air Services, who was contracted by the Federal Government to take aerial photographs of the region. The Site is located approximately 6 km to the northeast of Pelly Lake, within the Kivalliq region of Nunavut (7327399 N and 407062 E) (Lat: 66.053538° Long: -101.052295°) The nearest communities are Baker Lake (250 km southeast of Pelly Lake) and Gjoa Haven (350 km northeast of Pelly Lake). The Site is uninhabited and located on Crown land.

Throughout the years, various materials and structures were left at the Site, the Remedial Action Plan (RAP) indicates several dilapidated structures, 49 x 1,000-gallon fuel tanks, 710 barrels of petroleum products (including oil lubricants, aviation fuel, oil, tar, and soil contaminated with tar, and 101 cans of aviation oil), pieces of equipment, and the remains of a "Mosquito" aircraft. Investigations confirm that the site contains impacted sediment that poses a risk to human and ecological health, as well as hazardous and non-hazardous debris. A limited cleanup was reportedly conducted in 1996 but did not remove everything from the Site.

The project that is the subject of the environmental impact assessment (EIA) is the remediation of the Site (the "Project"). The Project will involve the demolition of buildings, removal of hazardous and non-hazardous debris, the excavation and packaging of lead impacted sediments exceeding the ecological component values (70 mg/kg) from the Canadian Council of Ministers of the Environment (CCME) Canadian Soil Quality Guidelines for the Protection of Environmental and Human Health for agricultural land use (CCME 1999).

Following the assessment of the site through scientific and traditional/local knowledge, the development of the Remedial Options Analysis, and the community engagement sessions, the recommended remediation option are excavation and southern off-site disposal of all impacted sediments, hazardous debris and non-hazardous debris with the exception of large non-hazardous debris that will be left on-site and unpainted wood debris that will be burned on-site. Due to challenging access to the site, equipment requirements will be kept to a minimum.

The proposed work is anticipated to be completed in two stages encompassing two summers and one winter. Phase 1 will occur over 8-12 weeks in Summer 2025 with the mobilization of the project team and equipment, execution of the remedial works and demobilization of equipment. Phase 2 will occur over 4-8 weeks in Winter 2026 with the demobilization of waste materials and extend into Summer 2026 with a final inspection and removal of any remaining items. Personnel and staff will be housed during Summer 2025 on Site in a temporary camp and water, wastewater and waste management will be required. During Phase 2, the crew will be lodge in Baker Lake and travel to site daily. It is anticipated that the site cleanup will require approximately 12 to 15 workers on Site completing the cleanup activities. Wildlife monitors, equipment operators and labourers will be sourced from local communities where possible.

The execution of the remedial plan will be competitively procured, with the contractor making final decisions

regarding the implementation strategy.

See Annex 6 for details on the undertaking.

10. OPTIONS – Provide a brief explanation of the alternative methods or locations that were considered to carry out the project.

Options to leave the abandoned waste on-site and either construct a landfill to encapsulate it or ensure it is stable and monitor if any long term effect are happening were assess but were not deemed the best options.

Waste Type	Remedial and/or Risk Management Options Evaluated	Preferred Remedial Option
Impacted Sediment	 Excavation and southern, off-site disposal Excavation and disposal on-site Signage and long term monitoring 	Excavation and southern, off-site disposal
Hazardous Waste	 Southern, off-site disposal On-site disposal Consolidate waste and long term monitoring 	Southern, off-site disposal
Non-hazardous Debris	 Southern, off-site disposal On-site disposal Consolidate waste and long term monitoring 	Southern, off-site disposal

See Annex 3 Remedial Action Plan for details on the options evaluated and the criteria used to select the best approach.

11.	CLASSIFICATION OF PRIMARY UNDERTAKING undertaking by checking one of the following boxes		
	☐ Industrial ☐ Mining and Milling (includes exploration/drilling/e ☐ Conservation ☐ Municipal (includes camps/lodges) ☐ Power	☐ Agricultural exploration camps) ☐ Recreational X Miscellaneous (describe below):	
	See Schedule II of <i>Northwest Territories Waters Regulations</i> for Description of Undertakings. Information in accordance with applicable Supplemental Information Guidelines (SIG) must be submitted with a New Water Licence Application. Indicate which SIG(s) are applicable to your application.		
	☐ Hydrostatic Testing ☐ Tannery X Tourist / Remote Camp ☐ Landfarm & On-Site Storage of Hydrocarbon Co ☐ Onshore Oil and Gas Exploration Drilling X Mineral Exploration / Remote Camp ☐ Advanced Exploration ☐ Mine Development ☐ Municipal ☐ General Water Works ☐ Power	ntaminated Soil	
12.	WATER USE - Check the appropriate box(s) to indiapplied for.	cate the type(s) of water use(s) being	

	X To obtain water for camp/ municipal purposes X To obtain water for industrial purposes To cross a watercourse To alter the flow of, or store water Other: To divert a watercourse To modify the bed or bank of a watercourse Flood control
13.	QUANTITY AND QUALITY OF WATER INVOLVED - For each type of water use indicated in Block 12, provide the source of water, the quality of the water source and available capacity, the estimated quantity to be used in cubic meters per day, method of extraction, as well as the quantities and qualities of water to be returned to source.
	Name of water source(s) (show location(s) on map):Drinking Water Lake
	Describe the quality of the water source(s) and the available capacity: The Drinking Water Lake is located nearby the area identified for the construction of the camp (approximately 400m west of it). Water quality was tested in 2022 and did not present any exceedances of guidelines.
	Provide the overall estimated quantity of water to be used:50 m³/day
	Provide the estimated quantity(s) of water to be used from each source: All from the same source
	Indicate the estimated quantities to be used for each purpose (camp, drilling, etc.) 10 m3 for domestic water use associated with the camp (drinking water brought to camp as bottled water) and up to 40 m3 for remedial activities (cleaning and decontamination of equipment).
	Describe the method of extraction(s): Contractors will be required to use a pump that is contained within a rigid containment unit with a liner to contain any leaks. The intake will feature a mesh screen specifically designed to prevent fish from being drawn into the pump during pumping operations.
	Estimated quantity(s) of water returned to source(s)up to 50 m³/day
	Describe the quality of water(s) returned to source(s): Grey water sump will be located away from water supplies and drainage areas. Self-contained toilets will be used for blackwater and contains will be packed and removed for disposal in southern licensed facilities (no on-site discharges). There will be no on-site sewage treatment systems. Any water resulting from camp domestic use, equipment decontamination and drum processing water will be treated on site if feasible/needed and discharged to a sump and/or will placed in containers to be removed for off-site disposal in southern licensed facility.
14.	WASTE – Check the appropriate box(s) to indicate the types of waste(s) generated and deposited.
	Sewage □ Waste oil Solid Waste X Greywater □ Hazardous □ Sludges □ Bulky Items/Scrap Metal □ Contaminated soil and/or water □ Animal Waste X Other (describe): Remediation and camp wastes
15.	QUANTITY AND QUALITY OF WASTE INVOLVED – For each type of waste indicated in

Block 14, describe its composition, quantity in cubic meters/day, method of treatment and method of disposal.

Type of Waste	Composition	Quantity Generated	Treatment Method	Disposal Method
Remediation – Hazardous materials	Batteries, vehicle fluids, lead paint, residues in drums	7.05 m3	Collected and packaged	Removed off- site for disposal in licensed facility southern Canada
Remediation Combustible wastes	Untreated wood	45.6 m3	Incinerated on-site	Ashes collected, packaged and removed off- site for disposal in licensed facility southern Canada
Remediation - Non- hazardous Wastes	Metal and other miscellaneous debris	85.9 m3	Collected and packaged	Removed off- site for disposal in licensed facility southern Canada
Camp operation – Noncombust ible wastes	Food and general garbage NOT suitable for incineration	1,890 kg	Collected and packaged	Removed off- site for disposal in licensed facility southern Canada
Camp operation – Combustible wastes	Food and general garbage suitable for incineration	1,088 kg	Incinerated on-site (using cyclonator type equipment)	Ashes collected, packaged and removed off- site for disposal in licensed facility southern Canada
Greywater - camp	Domestic use for camp	7-10 m3/day	Collected in sump	Discharge if effluent meet criteria on the land, if not containerize and dispose off-site
Greywater –	Cleaning and decontamination	Up to 40 m3/day for no	Collected in sump	Discharge if effluent meet

Rem	nediation ds	of equipment	longer than 9 days		criteria on the land, if not containerize and dispose off-site
16.	OTHER AUTHORIZATIONS – In addition to the sub-surface and surface land use authorizations provided in Block 6, indicate any other authorizations required in relation to the proposed undertaking. For each provide the following: Authorization:Quarry Permit				
	Administerir (INAC)	ng Agency: Crown Land	Use Authorization fro	m Indian and Northerr	n Affairs Canada
	Project Activity:Producing borrow material for backfilling if needed				
	Date (expec	ted date) of issuance: _	March 31 st , 2025 D	ate of expiry:	

PREDICTED ENVIRONMENTAL IMPACTS OF UNDERTAKING AND PROPOSED 17. MITIGATION MEASURES - Describe direct, indirect, and cumulative impacts related to water and waste.

In the short term, species and their habitats are expected to be impacted. The majority of this impact will be in the form of disturbance from the presence of humans and machinery and the accompanying noise, dust and activity. There is the possibility of more serious impacts from spills. fires, erosion and sedimentation and encounters with wildlife, however, these will be mitigated by the development of a comprehensive set of management plans developed, reviewed, and approved prior to commencing work. Ultimately, any short term negative impacts are anticipated to be offset by an overall improved environment and habitat to support species in their medium and long-term future. See Annex 6 - Environmental Impact Assessment for details on predicted impacts.

18. WATER RIGHTS OF EXISTING AND OTHER USERS OF WATER

Provide the names, addresses and nature of use for any known persons or properties that may be adversely affected by the proposed undertaking, including those that hold licences for water use in precedent to the application, domestic users, in-stream users, authorized waste depositors, owners of property, occupiers of property, and/or holders of outfitting concessions, registered trapline holders, and holders of other rights of a similar nature.

Advise the Board if compensation has been paid and/or agreement(s) for compensation have been reached with any existing or other users.

None to our knowledge

19. **INUIT WATER RIGHTS**

Advise the Board of any substantial affect of the quality, quantity or flow of waters flowing through Inuit Owned Land (IOL), and advise the Board if negotiations have commenced or an agreement to pay compensation for any loss or damage has been reached with one or more Designated Inuit Organization (DIO).

None to our knowledge as site is located entirely on Crown Land

20. CONSULTATION – Provide a summary of any consultation meetings including when the meetings were held, where and with whom. Include a list of concerns expressed and measures to address concerns.

A community engagement meeting was held in Baker Lake on May 18, 2023. A total of 27 community members signed into the meeting along with young adults and children. The meeting included a presentation which provided an overview of the project, work completed to date, and remediation/risk management options. Discussion was encouraged throughout the presentation and a period of questions and answers was held following the presentation.

The discussion provided local insight pertaining to the remediation of the Site. During the community engagement session, CIRNAC committed to the removal of all hazardous material from the Site for off-site disposal. CIRNAC acknowledged the community's request to remove all non-hazardous debris but clarified that the non-hazardous debris posed a low risk to human health and the environment. CIRNAC committed to removing non-hazardous debris as long as it was logistically feasible to do so. The community members acknowledged that the cost and logistics associated transporting heavy equipment to the Site and debris from the Site would be high. Community members also brought forth ideas for site access including a winter ice landing strip with a haul trail to the Site. The winter ice strip would allow larger aircraft to access the Site which could cut the number of flights necessary to haul the waste away. A community member also noted the soft conditions of the soil at the site. The soft conditions could pose challenges to the movement of larger equipment at the site.

A member of the community identified the possibility of a burial on site. Our consultant's archaeologists met virtually with the interested party and provided maps, photographs, and descriptions of areas on site. An approximate area of the burial site has been identified and will be protected during any future remedial work.

21. SECURITY INFORMATION

Provide an estimate of the total financial security for final reclamation equal to the total outstanding reclamation liability for land and water combined sufficient to cover the highest liability over the life of the undertaking. Estimates of reclamation costs must be based on the cost of having the necessary reclamation work done by a third party contractor if the operator defaults. The estimate must also include contingency factors appropriate to the particular work to be undertaken.

Where applicable, the financial security assessment should be prepared in a manner consistent with the principals respecting mine site reclamation and implementation found in the *Mine Site Reclamation Policy for Nunavut*, Indian and Northern Affairs Canada, 2002.

No security required as this project is the Remediation of the Site

22. FINANCIAL INFORMATION

Provide a statement of financial responsibility.

If the applicant is a business entity, provide a list of the officers of the company.

If the applicant is a business entity attach a copy of the Certificate of Incorporation or evidence of registration of the company name.

Not applicable

- 23. STUDIES UNDERTAKEN TO DATE List and attach copies of studies, reports, research, etc.
 - Archaeological (Impact) Assessment (AIA)
 - Human Health and Ecological Risk Assessment (HHERA)
 - Remedial Action Plan (RAP)

• These	Environmental Impact Assessment (EIA) These reports are attached to this application			
24.	PROPOSED TIME SCHEDULE – Indicate the proposed start and completion dates for each applicable phase of development (construction, operation, closure, and post closure).			
	Construction			
	Proposed Start Date:June 2025 Proposed Completion Date:March 2027 (month/year) (month/year)			
	Operation Proposed Start Date: June 2025 Proposed Completion Date: March 2027 (month/year) (month/year) Closure			
	Proposed Start Date:September 2026_ Proposed Completion Date:March 2027(month/year) (month/year)			
	Proposed Start Date:N/A Proposed Completion Date:N/A (month/year)			
	For each applicable phase of development indicate which season(s) activities occur.			
	Construction ☐ Winter ☐ Spring X Summer X Fall ☐ All season			
	Operation ☐ Winter ☐ Spring X Summer X Fall ☐ All season			
	Closure X Winter X Spring ☐ Summer ☐ Fall ☐ All season			
	Post - Closure Winter Spring Summer Fall All season			
25.	PROPOSED TERM OF LICENCE			
	Number of years (maximum of 25 years):2 years			
	Requested Date of Issuance:May 2025 Requested Expiry Date:March 2027 (month/year)			
licence	equested date of issuance must be <u>at least</u> three (3) months from the date of application for a type B water and <u>at least</u> one (1) year from the date of application for a type A water licence, to allow for processing of the icence application. These timeframes are approximate and do not account for the time to complete any pre-			

licence respond	licensing land use planning or development impact requirements, time for the applicant to prepare and submit a water licence application in accordance with any project specific guidelines issued by the NWB, or the time for the applicant to respond to requests for additional information. See the NWB's <i>Guide 5: Processing Water Licence Applications</i> for more information)			
26.			NWB's <u>Standardized Form for Annual Reporting</u> , provide eports and a proposed outline or template of the annual	
NWB's	Standardized F	Form will be used		
27.	CHECKLIST - begin.	- The following must be inc	eluded with the application for the water licensing process to	
		nation from the NPC confir ve been addressed.	ming that NPC's requirements regarding land use plan	
	X Yes	□No	If no, date expected	
	Written confirmation from the NIRB confirming that NIRB's requirements regarding development impact assessment have been addressed.			

N	lame (Print)	Title (Prin	t) Signature	Date
Charle	otte Lamontagne	Director, Contar Sites Program, I		January 21, 2025
28.	SIGNATURE			
This ap	plication is being made b	y a Department of	the Government of Canada	
	Yes	X No	If no, date expected	
	use fee will be calcula	ated by the NWB	Payee Receiver General for Canada). based upon the amount of water au ne of issuance of the licence.	
	X Yes	□No	If no, date expected	
	Application Fee of \$30.	00 CDN (Payee R	eceiver General for Canada).	
	X Yes	□No	If no, date expected	
	Inuktitut and/or Inuinna	qtun Summary of A	Application.	
	X Yes	□No	If no, date expected	
	English Summary of Ap	oplication.		
	X Yes	□No	If no, date expected	
	Information addressing	Supplemental Info	ormation Guideline (SIG) , where applic	cable (see Block 11)
	X Yes	□No	If no, date expected	
	Completed General Wa	ater Licence Applic	ation form.	
	X Yes	□No	If no, date expected	



P.O. Box 119 GJOA HAVEN, NU X0B 1J0 TEL: (867) 360-6338 FAX: (867) 360-6369 kNK5 wmoEp5 vtmpq NUNAVUT WATER BOARD NUNAVUT IMALIRIYIN KATIMAYINGI OFFICE DES EAUX DU NUNAVUT

EXPLORATION/ REMOTE CAMP SUPPLEMENTARY QUESTIONNAIRE

Appli	cant: Crown-Indigenous Relations and Northern Affairs Canada (CIRNAC) Licence No:
ADM	INISTRATIVE INFORMATION
1.	Environment Manager:Mitch Bliss, Public Services and Procurement Canada (PSPC) Tel:(587)338-1054 E-mail: Mitch.Bliss@tpsgc-pwgsc.gc.ca
2.	Project Manager:Rachel Théorêt-Gosselin Crown-Indigenous Relations and Northern Affairs Canada (CIRNAC) Tel:(867)222-1732
3.	Does the applicant hold the necessary property rights? Yes
4.	Is the applicant an 'operator' for another company (i.e., the holder of the property rights)? If so, please provide letter of authorization. No
5.	Duration of the Project
	One year or lessX Multi Year: Start and completion dates:
	If Multi-Year indicate proposed schedule of on site activities Start: _June 2025 Completion: _March 2027
CAM	P CLASSIFICATION
6.	Type of Camp
	Mobile (self-propelled) X Temporary Seasonally Occupied_ Permanent Other:
• Appr	What is the design, maximum and expected average population of the camp? amp facilities will be established for 20 persons and shall consist of, but not be limited to: roved toilet facilities p wastewater collection, treatment, and disposal systems.

Waste, refuse, and garbage collection and disposal system.
Camp fire prevention, alarm and firefighting system.
Camp and site facilities safety and security service.

Meals and catering service.Shower/wash facilities.

- Sleeping facilities.
- Janitorial services.
- First Aid facilities and service.

The camp will include all Utilities and services required for camp facilities including, but not limited to, heating, electricity, lighting, fuel, potable water and camp hygiene wash water systems.

8. Provide history of the site if it has been used in the past.

The Pelly Lake Site (the Site) is a former airstrip and fuel cache site. It was reportedly used as a base and airstrip from 1954 to 1956 by Spartan Air Services, who was contracted by the Federal Government to take aerial photographs of the region. It has since been abandoned, leaving all the wastes on-site. A limited cleanup was conducted in 1996 but did not remove everything from the Site.

CAMP LOCATION

9. Please describe proposed camp location in relation to biogeographical and geomorphological features, and water bodies.

The boundary coordinates of the proposed temporary summer camp:

NW:	Latitude: (66° 3'12.69"N)	Longitude:	(101°	2'32.18"W)
NE:	Latitude: (66° 3'11.65"N)	Longitude:	(101°	2'23.47"W)
SE:	Latitude: (66° 3'0.50"N)	Longitude:	(101°	2'27.11"W)
SW:	Latitude: (66° 3'1.42"N)	Longitude:	(101°	2'35.66"W)

This camp location will be re-examined during pre-mobilization site visit in June 2025. If found unsuitable, a new location will be selected and the new location will be reported to NWB before the commencement of the work. A winter temporary camp might be established near the area identified for the snow airstrip. Would this approach be used; the coordinates of that proposed camp will be determined during the summer program and will be communicated to the NWB. The area would be identify based on stability of the ground, type of substrate, and flat topography to minimize ground disturbance.

- 10. How was the location of the camp selected? Was the site previously used? Was assistance from the Regional Inuit Association Land Manager sought? Include maps and/or aerial photographs. The area was identified based on stability of the ground, type of substrate, flat topography, and proximity to work areas. The location ensures minimum ground disturbance. The terrain at the site is composed primarily of sand and gravel and may be loose in areas, so the camp location will be placed where the soil is stable and compacted already. See Annex 5 for maps and aerial photographs.
- 11. Is the camp or any aspect of the project located on:

X	Crown Lands	Permit Number (s)/Expiry Date: Application in progress
	Commissioners Lands	Permit Number (s)/Expiry Date:
	Inuit Owned Lands	Permit Number (s)/Expiry Date:

12. Closest Communities (direction and distance in km):

The site is located 250 km northwest of Baker Lake.

13. Has the proponent notified and consulted the nearby communities and potentially interested parties about the proposed work?

A community engagement meeting was held in Baker Lake on May 18, 2023. See Water Licence Application for details.

14. Will the project have impacts on traditional water use areas used by the nearby communities? Will the project have impacts on local fish and wildlife habitats?

The project will have temporary impacts during the remediation work but will positively impact the water quality and fish and wildlife habitats afterwards.

PURP	OSE OF THE CAMP	
15.	 Mining (includes exploration drilling) Tourism (hunting, fishing, wildlife observation, adventure/expedition, etc.) (Omit questions # 16 to 21) X Other _Remediation of abandoned site_(Omit questions # 16 to 21) 	
16.	Activities (check all applicable) N/A	
	Preliminary site visit Prospecting Geological mapping Geophysical survey Diamond drilling Reverse circulation drilling Evaluation Drilling/Bulk Sampling (also complete separate questionnaire) Other:	
17.	Type of deposit (exploration focus): N/A	
	□ Lead Zinc □ Diamond □ Gold □ Uranium □ Other:	
DRIL	ING INFORMATION	
18.	Drilling Activities N/A	
	□ Land Based drilling□ Drilling on ice	
19.	Describe what will be done with drill cuttings? N/A	
20.	Describe what will be done with drill water? N/A	
21.	List the brand names and constituents of the drill additives to be used? Includes MSDS sheets are provide confirmation that the additives are non-toxic and biodegradable. N/A	ıd

Will any core testing be done on site? Describe. N/A

22.

SPILL CONTINGENCY PLANNING

23. The proponent is required to have a site specific Spill Contingency Plan prepared and submitted with the application This Plan should be prepared in accordance with the NWT Environmental Protection Act, Spill Contingency Planning and Reporting Regulations, July 22, 1998 and A Guide to the Spill Contingency Planning and Reporting Regulations, June 2002. Please include for review.

A Spill Contingency Plan has been written for this Project and is included with this application. The plan was prepared in accordance with the *NWT Environmental Protection Act, Spill Contingency Planning and Reporting Regulations, July 22, 1998* and *A Guide to the Spill Contingency Planning and Reporting Regulations, June 2002*. The procedures in the plan will be adopted at Pelly Lake in the event of fuel or hazardous material spill.

See the Annex 4 - Pelly Lake Remediation Spill Contingency Plan.

24. How many spill kits will be on site and where will they be located?

Emergency spill equipment will be pre-assembled and maintained. These will include at least two fuel pumps, empty 200-liter barrels and absorbent material sufficient to clean up a 1000-liter spill at all fuel storage sites. Spill mats or pans and a spill kit will be maintained under mobile fueling containers and at the refueling area.

25. Please describe the types, quantities, and method of storage of fuel and chemicals on site, and provide MSDS sheets.

Equipment, fuel, and hazardous materials anticipated to be used on Site during the Project have been summarized in the table below. The Contractor will provide more specific information on the types, quantities, and the MSDS sheets for all fuel and chemicals on site, upon contract award. The Contractor will comply with requirements of Workplace Hazardous Materials Information System (WHMIS) regarding employee training, use, handling, storage, and disposal of hazardous materials, and regarding labelling and provision of MSDS, as required by WHMIS.

Fuel and Chemicals	Estimated Quantity	Proposed Use			
Gasoline	2,050 L	Vehicles			
Diesel 10,000 L (Generator fuel			
Hydraulic Oil and Motor Oil 50 L each		Equipment and vehicle maintenance			
Grease 25 tubes		Equipment and vehicle maintenance			
Propane	45kg tank	Camp heating and cooking			
Acetylene	800 cubic feet	Cutting metal debris			
Oxygen	1600 cubic feet	Cutting metal debris			

The hazardous material storage area will be located adjacent to the construction camp. It will be lined with an oil-resistant membrane and protected by either geotextile or plywood. Berms will be built around the perimeter of the storage area. Drums containing fuel will be stored in an elevated position, either on their side with bungs facing 9 and 3 o'clock position, or on pallets, upright, and banded.

When not in use, drums will be covered with tarpaulins to prevent water from pooling. Refuelling and fuel transfer will be done only by qualified personnel. An electric ULC-approved mobile fuel pump with an automatic shut-off will be used for refuelling equipment directly from the drums. The refuelling will not be permitted within 30m of a watercourse. Drip pans, and spill kits (booms and pads) will be present during refuelling activities. Emergency spill

equipment will include at least two fuel pumps, empty 200 litre barrels and absorbent material sufficient to clean up a 1000 litre spill at all fuel storage sites.

Fuel Type / Est. Quantity (L)	Equipment	Storage & Handling
Gasoline (~2,050)	ATVs, snowmobiles, small equipment (generators, etc.)	- Barrels containing fuel will be stored in an elevated position, either on their side with bungs facing 9 and 3 o'clock position, or on pallets, upright, and banded.
Aviation Fuel (TBD)	Fixed Wing Aircraft	- Fuel storage area to be constructed with
Propane & Compressed gas	Camp facilities (cooking) Metal Cutting	secondary containment - Storage location to be approved by AHJ
Diesel (~10,000)	Camp facilities (generators/heating)	

All hazardous, lead-based paint, and non-hazardous waste would be separated into acceptable approved containers, clearly labelled, and transported to the laydown area for final demobilization to southern disposal facilities.

WATER SUPPLY AND TREATMENT

26. Describe the location of water sources.

The Drinking Water Lake is located nearby the area identified for the construction of the camp (approximately 400m west of it).

27. Estimated water use (in cubic metres/day):

X	Domestic Use:10 m3	Water S	Source:Drinking Water Lake
	Drilling:		
	Other:_ remedial activities 40 m3_		

Total water use: 50 m3

28. Describe water intake for camp operations? Is the water intake equipped with a mesh screen to prevent entrapment of fish? (see *DFO 1995*, *Freshwater Intake End-of-Pipe Fish Screen Guideline*) Describe:

Contractors will be required to use a pump that is contained within a rigid containment unit with a liner to contain any leaks. The intake will feature a mesh screen specifically designed to prevent fish from being drawn into the pump during pumping operations.

29. Will drinking water quality be monitored? What parameters will be analyzed and at what frequency?

Given the short duration of camp, drinking water will be brought to camp as bottled water so no monitoring or test required.

30. Will drinking water be treated? How?

N/A

31. Will water be stored on site?
Only water brought in bottle for drinking purposes.

WASTE TREATMENT AND DISPOSAL

32. Describe the characteristics, quantities, treatment and disposal methods for:
Camp Sewage (blackwater)
N/A Self-contained toilets will be used for blackwater (no on-site discharges). There will be no on-site sewage treatment systems.
Camp Greywater
Grey water sump will be located away from water supplies and drainage areas. Any water resulting from camp domestic use, equipment decontamination and drum processing water will be treated on site if feasible/needed and discharged to a sump and/or will placed in containers to be removed for off-site disposal in southern licensed facility.
Solid Waste
Combustible camp waste will be disposed of by incineration. Non-combustible waste will be collected, packaged appropriate containers, and shipped off-site for disposal along with all other debris collected during the remediation program. All waste materials will be shipped off Site for disposal. It is expected that on average 1.5 kg/person/day for a total of 1145 kg will be generated during the on-site components of the remediation.
Bulky Items/Scrap Metal
The surface debris will be separated into non-hazardous waste and hazardous waste. The non-hazardous waste will be separated into untreated/unpainted wood and other materials. The other materials will be broken down, if needed. Non-hazardous materials will be placed into approved acceptable containers (e.g., clean drums, megabags, shipping crates) and then transported to the laydown area in preparation for removal and final disposal in souther facility. During Phase 2, the exceeding non-hazardous material that could not be removed during the summer program will be hauled to a staging area adjacent to the winter landing strip in preparation for transportation for removal and final disposal in southern facility. All unpainted and/or untreated wood will be burned on-site as outlined in the AMSRP guidelines (Indian and Northern Affairs Canada, 2009) and according to the Nunavut Department of Environment – Environmental Guidelines for the Burning and Incineration of Solid Waste (Nunavut Department of Environment, 2012). Burning will be carried out by trained personnel in a controlled area (i.e. burn pad). All ash material will be collected and packaged in acceptable containers and moved to the laydown area in preparation for removal and final disposal is southern facility.
Waste Oil/Hazardous Waste The hazardous materials will be placed into approved acceptable containers (e.g., drums, overpacks, megabags) and then properly labelled and transported to the laydown area for removal and final disposal in southern facility.

Empty Barrels/Fuel Drums Drums and tanks that contain liquid would be separated from the other surface debris and the liquids will be consolidated in new lined drums to minimize the number of drums and tanks containing liquid as well as the potential for leaks. This procedure will be carried out ensuring containment measures are taken so that no liquid is spilled into the environment. Drums and tanks containing liquid organic wastes are considered hazardous and will need to be stored and consolidated in approved containers with spill containment during their storage in the staging area prior to transport. The drums will be washed and crushed on site and the tanks will be cleaned, cut up using hand tools, and consolidated prior to placement in the staging area. It is assumed that the cleaning of drums and tanks will result in approximately 2 L of sludge per drum and 100 L of sludge per tank. On-site treatment and discharge of water produced during tank and drum cleaning was assumed and would need to be permitted through the water license. Vapor testing will be done before cutting and the drums and tanks management will be completed by qualified personnel. Empty drums and tanks on the Site will be classified as non-hazardous once cleaned. The hazardous materials will be placed into approved acceptable containers (e.g., drums, overpacks, megabags) and properly labelled. All materials will be transported to the laydown area in preparation for removal and final disposal in southern facility.
Other: Demolition of the wood structure, lined with sheet metal, and containing tar paper in the roofing will be conducted by trained workers. Removal of suspected lead-based paint from the carts and bulldozer on site will be conducted by trained workers certified in lead abatement work. The removal of the lead-based paint should be carried out using methods that reduce the generation of lead dust or the dispersion of lead paint chips. The removed lead-based paint will be stored in generations for bazerdaya metarials.
based paint will be stored in acceptable containers for hazardous materials. All hazardous, lead-based paint, and non-hazardous waste would be separated into acceptable approved containers, clearly labelled, and transported to the laydown area in preparation for removal and final disposal in southern facility.

33. Please describe incineration system if used on site. What types of wastes will be incinerated?

For camp combustible waste, they will be incinerated on-site using cyclonator type equipment. For untreated wood, it will be broken down in manageable size and incinerated on a burn pad. The pad will be installed away from vegetation and ensure an adequate buffer zone with the surrounding vegetation is available to minimize potential for wildfire. The area will be covered by mesh to prevent sparks to get outside the secured zone and avoid wildfire risks. Burning will be carried out by trained personnel in a controlled area (i.e. burn pad). All ash material (from incinerator and burn pad) will be collected and packaged in acceptable containers and moved to the laydown area in preparation for removal and final disposal in southern facility.

34. Where and how will non-combustible waste be disposed of? If in a municipality in Nunavut, has authorization been granted?

All materials will be transported off-site and then by sealift for final disposal in licensed facilities in southern Canada.

35. Describe location (relative to water bodies and camp facilities) dimensions and volume, and freeboard for all sumps (if applicable).

Grey water sump will be located away from water supplies and drainage areas. Only small size required since limited water requirement for camp domestic use and remediation activities.

36. Will leachate monitoring be done? What parameters will be sampled and analyzed, and at what frequency?

N/A

OPERATION AND MAINTENANCE

37. Have the water supply and waste treatment and disposal methods been used and proven in cold climate? What known O&M problems may occur? What contingency plans are in place? Yes, the incinerator will be one already used and proven in the North. Camp and work will be limited to short period using simple methods already proven for northern remediation.

ABANDONMENT AND RESTORATION

38. Provide a detailed description of progressive and final abandonment and restoration activities at the site.

After remediation, the temporary camp facilities will be removed from the site. The site will be stabilized; all wastes and materials, slated for off-site transport, will be removed and shipped off-site to southern facilities.

BASELINE DATA

- 39. Has or will any baseline information be collected as part of this project? Provide bibliography.
 - X Physical Environment (Landscape and Terrain, Air, Water, etc.)
 - X Biological Environment (Vegetation, Wildlife, Birds, Fish and Other Aquatic Organisms, etc.)
 - X Socio-Economic Environment (Archaeology, Land and Resources Use,
 - X Demographics, Social and Culture Patterns, etc.)

Х	Other:					

- Phase III Environmental Site Assessment Pelly Lake, Nunavut (BLM-KEL-60, 2023).
- Remedial Action Plan (RAP) (BLM-KEL-60, 2023).
- Archaeological Assessment Report Pelly Lake, Nunavut (BLM-KEL-60, 2023).
- Environmental Impact Assessment Report Pelly Lake, Nunavut (BLM-KEL-60, 2023).

REGULATORY INFORMATION

- 40. At a minimum, you should ensure you have a copy of and consult the documents below for compliance with existing regulatory requirements:
 - X ARTICLE 13 NCLA -Nunavut Land Claims Agreement
 - X NWNSRTA The Nunavut Waters and Nunavut Surface Rights Tribunal Act, 2002
 - X Northwest Territories Waters Regulations, 1993
 - X NWB Water Licensing in Nunavut Interim Procedures and Information Guide for Applicants
 - X NWB Interim Rules of Practice and Procedure for Public Hearings
 - × RWED Environmental Protection Act, R-068-93- Spill Contingency Planning and Reporting Regulations, 1993
 - X RWED A Guide to the Spill Contingency Planning and Reporting Regulations, 2002
 - X NWTWB Guidelines for Contingency Planning
 - X Canadian Environmental Protection Act, 1999 (CEPA)
 - **X** Fisheries Act, RS 1985 s.34, 35, 36 and 37
 - X DFO Freshwater Intake End of Pipe Fish Screen Guideline

- X NWTWB Guidelines for the Discharge of Treated Municipal Wastewater in the NWT
- X Canadian Council for Ministers of the Environment (CCME); Canadian Drinking Water Quality Guidelines, 1987
- X Public Health Act Camp Sanitation Regulations
- X Public Health Act Water Supply Regulations
- X Territorial Lands Act and Territorial Land Use Regulations; Updated 2000