



PART 1 FORM PROJECT PROPOSAL INFORMATION REQUIREMENTS

To access NIRB documents, project screenings, and project reviews please visit the Nunavut Impact Review Board's ftp site <http://ftp.nirb.ca/>. The NIRB's website (www.nirb.ca) is currently under construction. Please contact info@nirb.ca should you have any questions or require further information.

IMPORTANT!

Please be advised that your application will not be processed until the Sections 1 - 9 are completed in their entirety, in both English and Inuktitut (+ Inuinnaqtun, if in the Kitikmeot).

SECTION 1: APPLICANT INFORMATION

- Project Name** FOX-4, Cape Hooper Supplementary Environmental Clean Up
- Applicant's full name and mailing address:**
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- Primary contact's full name and mailing address:**
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Email: Eva.Schulz@aecom.com

SECTION 2: AUTHORIZATION NEEDED

- Indicate all authorizations associated with the project proposal:

<input type="checkbox"/>	Regional Inuit Association (RIA)	<input type="checkbox"/>	Canadian Launch Safety (CLS)
<input checked="" type="checkbox"/>	Nunavut Water Board (NWB)	<input type="checkbox"/>	Environment Canada (EC)
<input checked="" type="checkbox"/>	Nunavut Planning Commission (NPC)	<input type="checkbox"/>	Government of Nunavut (GN)
<input checked="" type="checkbox"/>	Indian and Northern Affairs Canada (INAC)	<input type="checkbox"/>	Department of National Defense (DND)
<input type="checkbox"/>	Department of Fisheries and Oceans (DFO)	<input type="checkbox"/>	Hamlet
<input type="checkbox"/>	Community Government & Services (CG&S)	<input type="checkbox"/>	Parks Canada (PC)
<input type="checkbox"/>	Nunavut Research Institute (NRI)	<input type="checkbox"/>	Canadian Wildlife Service (CWS)
<input type="checkbox"/>	Department of Culture, Language, Elders, and Youth (CLEY)	<input type="checkbox"/>	Other (please specify):

- List the active permits, licenses, or other authorizations related to the project proposal, and their expiry date(s):

Water Use License 1BR-FOX0713; Expiry Dec. 31, 2013.

Land Use Permit N2010X0009; Expiry August 31, 2011.



3. List the pending permits, licenses, or other authorizations related to the project proposal:

Quarry Permit

4. Has this project or any components of this project been previously screened or reviewed by NIRB?

☒ YES

☐ NO

If YES, indicate the previous project name and NIRB File No.

FOX-4 DEW Line Project, file EX-53, was exempt.

SECTION 3: PROJECT PROPOSAL DESCRIPTION

1. Indicate the type of project proposal (check all that apply)^(1,2):
(See Appendix A for Project Type Definitions)

1	All-Weather Road/Access Trail	<input type="checkbox"/>	9	Site Cleanup/Remediation	<input checked="" type="checkbox"/>
2	Winter Road/ Winter Trail	<input type="checkbox"/>	10	Oil and Natural Gas Exploration/Activities	<input type="checkbox"/>
3	Mineral Exploration	<input type="checkbox"/>	11	Marine Based Activities	<input type="checkbox"/>
4	Advanced Mineral Exploration	<input type="checkbox"/>	12	Scientific/International Polar Year Research*	<input type="checkbox"/>
5	Mine Development /Bulk Sampling	<input type="checkbox"/>	13	Harvesting Activities*	<input type="checkbox"/>
6	Pits and quarries	<input type="checkbox"/>	14	Tourism Activities*	<input type="checkbox"/>
7	Offshore Infrastructure (port, break water, dock)	<input type="checkbox"/>	15	Other ⁽²⁾ :	<input type="checkbox"/>
8	Seismic Survey	<input type="checkbox"/>			<input type="checkbox"/>

Please note:

- All project types listed above, except those marked with an asterisk (*), will also require the Proponent to submit a **Part 2 Project Specific Information Requirement (PSIR) Form**. The NIRB application process will not be considered complete without the Part 2 PSIR Form.
- Please be advised that in order to complete the NIRB process, the NIRB may request additional information at any time during the process.
- If "Other" is selected, contact NIRB for direction on whether a Part 2 PSIR Form is required.



2. If Project Type 3, 4 or 5 was selected above, please indicate the mineral of interest that is being extracted. Include a brief description.

<input type="checkbox"/>	Base Metals (zinc, copper, gold, silver, etc)
<input type="checkbox"/>	Diamonds
<input type="checkbox"/>	Uranium
<input type="checkbox"/>	Other: _____

3a. If Project Type 12, 13 or 14 was selected above, complete the table and questions below.

Transportation Type	Quantity	Proposed Use	Length of Use
<i>E.g. Helicopter</i>	<i>1</i>	<i>Site to site pick ups and drop offs</i>	<i>6 days</i>

3b. Describe any docks, piers, air strips or related structures that are to be used in conjunction with the proposed project activities. **Please note:** *the building of new structures may require a Part 2 Form.*

3c. If a temporary camp site is to be established, describe the proposed structures in detail and indicate the type and source of power for the camp site if applicable.

4. Personnel

Total No. of personnel on site = (A)	60	Total No. of days on-site = (B)	90	Total No. of Person days (A) x (B) = 5400
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5. Timing

Period of operation:	from	<u>August 1, 2011</u>	to	<u>October 1, 2013</u>
Proposed term of authorization:	from	<u>July 1, 2011</u>	to	<u>December 31, 2013</u>

6a. Region (check all that apply):

<input checked="" type="checkbox"/> North Baffin	<input type="checkbox"/> Kivalliq	<input type="checkbox"/> Kitikmeot	<input type="checkbox"/> Transboundary: _____
<input type="checkbox"/> South Baffin	<input type="checkbox"/> National Park		

6b. Describe the location of the proposed project activities in a regional context, noting the proximity to the nearest communities and any protected areas.

The closest communities to FOX-4 are Qikiqtarjuaq and Clyde River, approximately 150 km north and south of FOX-4, respectively.



6c. Discuss the history of the site if it has been used for any project activities in the past.

FOX-4 is a former DEW Line site that was closed in the early 1990's, with full remediation completed in 1999.

6d. Indicate if there are any known archaeological/palaeontological historical sites in the area.

None.

7. Land Status (check all that applies):

☒ Crown ☐ Commissioners' ☐ Municipal
☐ Inuit Owned Surface Lands ☐ Inuit Owned Sub-Surface Lands

8a. Co-ordinates:

Min Lat (degree/minute) 7592750N Min Long (degree/minute) 588000E
Max Lat (degree/minute) 7597250N Max Long (degree/minute) 590250E

NTS Map Sheet No: 27 B

(Please ensure that maps of the project are attached (1:50,000 if available, 1:250, 000 **Mandatory**) available from Natural Resources Canada)

8b. If the project proposal includes a **camp**, please provide the coordinates of the camp location

Min Lat (degree/minute) 7596000 N Min Long (degree/minute) 588250 W
Max Lat (degree/minute) Max Long (degree/minute)

If different from above for the camp:

NTS Map Sheet No: 27B

Please ensure that maps of the project are attached (1:50,000 if available, 1:250, 000 **Mandatory**) available from Natural Resources Canada

Please note that additional location information may be required in a subsequent Project Specific Information Requirement (PSIR) submission. This may take the form of a digital Geographic Information Systems (GIS) file.

SECTION 4: NON-TECHNICAL PROJECT PROPOSAL DESCRIPTION

Please include a non-technical description of the project proposal, no more than 500 words, in English and Inuktitut (+Inuinnaqtun, if in the Kitikmeot). The project description should outline the following:

- The project activities, their necessity and duration;
- Method of transportation;
- Any structures that will be erected (permanent/ temporary);
- Alternatives considered; and
- Long-term developments, the projected outcome of the development for the area and its timeline.

FOX-4 was the first Department of National Defence (DND) site to undergo clean-up within Nunavut. The cleanup of the site occurred between 1996 and 1999 and was completed on behalf of DND as part of the DEW Line Cleanup (DLCU) Project. The purpose of the proposed project activities is to ensure the site is



in compliance with the DND-NTI Cooperation Agreement, which was not yet in place at the time of the clean up at FOX-4. During construction, contaminated soils identified during the 2010 Maintenance Assessment will be excavated and properly disposed of in on-site engineered landfills or at off-site facilities. Scattered surface debris and partially buried debris on the site will also be collected and disposed of. A new Non-hazardous Waste Landfill will be constructed to contain the non-hazardous contaminated soil and demolition waste generated during the clean up. A new Tier II Soil Disposal Facility cell will be constructed to contain Tier II contaminated soils excavated from the site. The existing landfills within the site will be remediated, as required. Disturbed areas will be physically restored to a stable condition shaped to match the existing terrain. Lastly, the monitoring program will be continued after the clean up has been completed.

FOX-4 is scheduled for clean up beginning in 2011 as part of the DLCU Project, with completion expected in 2013. The contractor will mobilize to the site in autumn 2011 and set up a temporary construction camp. The expected duration of annual clean up activities on site will generally be from mid-June to mid-September. During the winter months, work will cease and equipment and facilities on site will be winterized. It is expected that the contractor's workforce and accessory personnel will mobilize to and from the site from nearby northern communities. Completion of the clean up and demobilization of the contractor's facilities and equipment is anticipated for September 2013, typically in conjunction with the annual sea-lift. Long term monitoring of the landfills will continue upon completion of clean up (2013) and will continue for a 10-year period. After 10 years, the monitoring requirements will be re-evaluated.

The following activities will occur on-site to support the clean up work:

- Use of existing beach landing area, airstrip and roads at site for equipment transport, movement and access to work areas.
- Set-up of cleanup camp and equipment storage.
- Sewage from the camp will be handled with, at minimum, primary treatment (settling tank and lagoon) and discharged to ground surface. Sewage treatment and disposal will be in accordance with the Land Use Permit and Water Use License.
- Domestic wastes to be disposed of in the new Non-hazardous Waste Landfill.
- Demobilization of cleanup camp following end of project.
- Labour and equipment requirements are anticipated to include approximately 60 personnel, 40 pieces of heavy construction equipment and 10 support vehicles.
- Duration of work is anticipated to be approximately 3 months, not including winter shutdown period, over a period of three years.

IMPORTANT: IF THE PROPOSED ACTIVITIES REQUIRE SUBMISSION OF A NIRB PART 2 PSIR FORM, PLEASE COMPLETE SECTION 8 ONLY, OTHERWISE CONTINUE ON WITH SECTION 5.

A NIRB Part 2 PSIR Form is being submitted by the proponent.

SECTION 5: MATERIAL USE

1. List equipment to be used (including drills, pumps, aircraft, vehicles, etc.):

Equipment type and number	Size – dimensions	Proposed use

2a. Detail fuel and hazardous material use:



Fuel	Number of Containers and Capacity of Containers	Total Amount of Fuel (in Litres)	Proposed Storage Methods
Diesel			
Gasoline			
Aviation fuel			
Propane			
Other			
Hazardous Materials and Chemicals		Total Amount of Hazardous Materials and Chemicals (in Litres)	

2b. Describe the proposed Spill Prevention Plan.

3a. Detail the anticipated daily water consumption rates

Daily amount (m ³)	Proposed water retrieval methods	Proposed water retrieval location

3b. Have you applied for a water License with the Nunavut Water Board?

The project already has a **Class B** water use license in place.

☐ YES

☐ NO

If yes, what class of licence?

☐ Class A Water Licence

☐ Class B Water Licence

SECTION 6: WASTE DISPOSAL AND TREATMENT METHODS

1. List the types of waste associated with the proposed project activities:

Type of waste	Projected amount generated	Method of Disposal	Additional treatment procedures
Sewage (human waste)			
Greywater			
Combustible wastes			
Non-Combustible wastes			
Overburden (organic soil,			



waste material, tailings)			
Hazardous waste			
Other:			

2. Describe the proposed Waste Management Plan.

n/a

SECTION 7: COMMUNITY INVOLVEMENT & REGIONAL BENEFITS

1. List the community representatives that have been contacted and provide the minutes of the meetings if available:

Community	Name	Organization	Date Contacted

SECTION 8: GENERAL QUESTIONS

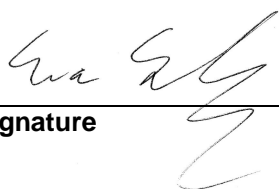
1. Will you be disturbing any known archaeological sites?

☐ YES

☒ NO

SECTION 9: APPLICANT SIGNATURE

Please sign and date your application:


Signature

Environmental Scientist
Title

February 9, 2011
Date



APPENDIX A Project Type Definitions

Access Trail: A project proposal with the objective of providing vehicular access to an area of interest involving minimal alteration to the terrain.

Advanced Exploration: A project proposal with the objective of identifying size, grade, and physical characteristics of a mineral occurrence and to assess the economic and technical feasibility of developing the mineral deposit into a producing mine

All-Weather Road: A project proposal with the objective of road construction for use in all seasons.

Bulk Sampling: A project proposal with the objective of extracting of large samples of mineralized material involving hundreds to thousands of tonnes. Samples are selected as representative of the potential mineral deposit being sampled. May involve crushing/milling (on small-scale)

Harvesting activities: A project proposal with the objective of harvesting animals, marine mammals and/or fish from their natural habitats by means of hunting or trapping for traditional and commercial use.

Marine Based Activities: Any activity occurring in the marine environment, such as vessel use associated with land-based activities or disposal at sea.

*Please note that normal community re-supply or individual ship movements not associated with land-based project proposals shall not be screened by NIRB (Section 12.12.2 of NLCA).

Mine Development: A project proposal with the objective of extracting broken rock with mineralization of sufficient grade and tonnage to sustain commercial mining operations (ore). Mining a body of ore can be achieved by either open pit and/or underground development. Mine development may involve milling. Milling involves treatment of the extracted ore through a combination of mechanical and chemical processes to selectively recover the valuable mineral.

Mineral Exploration: A project proposal with the objective of exploring an area to find geological anomalies. It involves site reconnaissance (ground and/or air) to locate broad and fiscal mineral deposits.

Offshore Infrastructure: A project proposal with the objective of building off loading facilities constructed off the shoreline and connected to the mainland of the marine or freshwater environment. Examples include a jetty, dock, or port facility.

Oil and Gas Exploration/Activities: A project proposal that includes 1) exploration, such as seismic or geological mapping, 2) drilling of oil and gas wells, 3) construction and operation of a pipeline, a gas processing plant or any oil and gas facility within Nunavut.

Pits and Quarries: A project proposal with the objective of pitting, which involves the extraction of granular material (i.e. sands and gravels) and quarrying, which involves the removal of consolidated rock (i.e. bedrock, frozen soil).

Scientific Research: A project proposal with the objective of implementing a series of site activities comprised of observation of phenomena, measurement and collection of data necessary for scientific investigation in designated areas within a limited time period.

Seismic Survey: A project proposal with the objective of conducting a survey to map the depths and contours of rock strata by timing the reflections of sound waves released from the surface. Survey site locations may be offshore (not within 12 nautical miles of any coast), near shore, and extended onshore.

Site Cleanups: A project proposal with the objective of site cleanups (includes DEW line site cleanups), which focuses on the remediation of chemically contaminated soils, stabilization of landfills and dumps, demolition/disposal of infrastructure and debris and monitoring after cleanup is completed.



Tourism Activity: A project proposal with the objective of conducting travel predominantly for recreational, sport or leisure purposes within a designated area and limited time period.

Winter Road: A project proposal with the objective of building a road for winter use by leveling and compacting surface snow and ice. Winter road is removed at end of season.

Winter Trail: A project proposal with the objective of building a trail for winter use by a single pass of a tracked vehicle using a blade, if necessary.