



## PART 1 FORM PROJECT PROPOSAL INFORMATION REQUIREMENTS

For more information about the Nunavut Impact Review Board (NIRB) please visit our web site <http://nirb.nunavut.ca/> or to access NIRB documents, project screenings, and project reviews please visit the Nunavut Impact Review Board ftp site <http://ftp.nunavut.ca/nirb>.

### 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

1. **Project Name** Rankin Inlet Fuel Facility Upgrade - Landfarm

2. **Applicant's full name and mailing address:**

Community Government & Services  
Government of Nunavut  
Rankin Inlet, NU  
C/O Brian Duguay, Project Officer

Phone: 867-645- 8185

Fax: 867-645- 8196

Email: bduguay@gov.nu.ca

3. **Primary contact's full name and mailing address:**

FSC Architects & Engineers  
4910 53<sup>rd</sup> St.  
Yellowknife NT  
C/O Kevin Hodgins, P. Eng.

867-920-2882

Phone: \_\_\_\_\_

Fax: 867-920-4319

Email: kevinh@fsc.ca

### SECTION 2: AUTHORIZATION NEEDED

1. **Indicate all authorizations associated with the project proposal:**

<input checked="" type="checkbox"/>	Regional Inuit Association (RIA)
<input checked="" type="checkbox"/>	Nunavut Water Board (NWB)
<input checked="" type="checkbox"/>	Nunavut Planning Commission (NPC)
<input type="checkbox"/>	Indian and Northern Affairs Canada (INAC)
<input type="checkbox"/>	Department of Fisheries and Oceans (DFO)
<input checked="" type="checkbox"/>	Community Government & Services (CG&S)
<input type="checkbox"/>	Nunavut Research Institute (NRI)
<input type="checkbox"/>	Department of Culture, Language, Elders, and Youth (CLEY)

<input type="checkbox"/>	Canadian Launch Safety (CLS)
<input type="checkbox"/>	Environment Canada (EC)
<input checked="" type="checkbox"/>	Government of Nunavut (GN)
<input type="checkbox"/>	Department of National Defense (DND)
<input checked="" type="checkbox"/>	Hamlet
<input type="checkbox"/>	Parks Canada (PC)
<input type="checkbox"/>	Canadian Wildlife Service (CWS)
<input type="checkbox"/>	Other (please specify): _____



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

None

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

GN Land Use Permit

Hamlet of Rankin Inlet Land Lease

Hamlet of Rankin Inlet Development Permit

NWB Water Licence

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.

None

### SECTION 3: PROJECT PROPOSAL DESCRIPTION

1. Indicate the type of project proposal (check all that apply)<sup>(1,2)</sup>:  
(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 <sup>(2)</sup> :	<input type="checkbox"/>
8	Seismic Survey	<input type="checkbox"/>			<input type="checkbox"/>

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.

N/A



**3a. If Project Type 13, 14 or 15 was selected above, complete the table and questions below.**

N/A

**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.*

None

**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.

None

**4. Personnel**

Total No. of personnel on site = (A)	10	Total No. of days on-site = (B)	30	<b>Total No. of Person days (A) x (B) = 300</b>
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**5. Timing**

*Period of operation:* from July 1, 2009 to November 1, 2014  
*Proposed term of authorization:* from same to \_\_\_\_\_

**6a. Region (check all that apply):**

☐ North Baffin    ☒ Kivalliq    ☐ Kitikmeot    ☐ Transboundary: \_\_\_\_\_  
☐ South Baffin    ☐ 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 proposed site for the landfarm is located approximately at 62° 49' 49.66" N, 92° 10' 28.15" W, near the Hamlet of Rankin Inlet's municipal solid waste site. It is entirely on Hamlet lands. CGS and the Hamlet recommended the area.

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

Site previously unused.

**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)	<u>62°49'48"</u>	Min Long (degree/minute)	<u>92°10'25'</u>
Max Lat (degree/minute)	<u>62°49'50'</u>	Max Long (degree/minute)	<u>92°10'20'</u>

NTS Map Sheet No: 55K 1:250,000

(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**

No camp.

If different from above for the camp:

NTS Map Sheet No: \_\_\_\_\_

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.

**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.**

The Rankin Inlet Fuel Facility is being upgraded. As part of the upgrade, hydrocarbon contaminated soils must be removed from the site and remediated. Contaminated soils will be remediated in a lined landfarm. This is proven technology in Nunavut and is used routinely.

Three options exist: do nothing, ship the soil South to a secure facility, or treat on site. Do nothing is unacceptable and shipping 6000 cubic metres of soil is financially restrictive. Treat on site may work but will take many years and potentially disrupt the upgrade of the facility.

Construction of the landfarm is scheduled for summer 2009 and remediation should be complete in under 5 years.



## SECTION 5: MATERIAL USE

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

The project will be tendered in 2009. It is expected to confirm the equipment at that time. Below is an estimate of the types and number of equipment that the contractor will require to construct and operate the facility.

Equipment type and number	Size – dimensions	Proposed use
Bulldozer - 1	Cat D6 or equivalent	Grading, compaction
Dump Truck -	10 yard or equivalent	Transport soil
Rubber tire loader 1	Cat 950 or equivalent	Manage soil
Smooth drum compactor	Bomag BW 213	compaction
Pick up trucks - several	½ ton	Personnel carriers.
Fuel Truck	5 ton	Fuel transfer
Water Truck - 1	5 ton	Soil compaction

### 2a. Detail fuel and hazardous material use:

No fuel Stored on-site

### 2b. Describe the proposed Spill Prevention Plan.

Fuel spills will result only from leaks or transfer accidents. Equipment will be inspected daily to prevent leaks. Transfers will be made from approved trucks by trained operators. Any spills will be immediately contained and cleaned up. The selected contractor will provide a full spill prevention plan as part of their tender submission.

### 3a. Detail the anticipated daily water consumption rates

Daily amount (m <sup>3</sup> )	Proposed water retrieval methods	Proposed water retrieval location
None	None	None

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

☐ YES **X**

☐ NO

If yes, what class of licence?

☐ Class A Water Licence

☐ Class B Water Licence **X**



## 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)	None		
Greywater	None		
Combustible wastes	None		
Non-Combustible wastes	None		
Overburden (organic soil, waste material, tailings)	None		
Hazardous waste	None		
Other:	None		

2. Describe the proposed Waste Management Plan.

No wastes will be generated.

## 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
Rankin Inlet	Paul Waye, SAO	Hamlet of Rankin Inlet	August 2007

## SECTION 8: GENERAL QUESTIONS

1. Will you be disturbing any known archaeological sites?

☐ YES

☐ NO X



## SECTION 9: APPLICANT SIGNATURE

Please sign and date your application:

Signature

Principal  
Title

March 31, 2008  
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.