



SCIENTIFIC RESEARCH LICENCE APPLICATION LAND, FRESHWATER & MARINE BASED RESEARCH

NRI strongly recommends that applicants review the following documents prior to submitting an application: *Scientific Research Licencing Guidelines* and *Negotiating Research Relationships in Inuit Communities: A Guide for Researchers*.

IMPORTANT

This application fulfills the requirements for the NIRB environmental screening. Please be advised that your application will not be processed until the application form, project summary, and maps are received.
All documents should be uploaded in the following formats: MS Word, Adobe PDF or jpeg.

SECTION 1: APPLICANT INFORMATION

1a. Project Title **Bathurst Inlet Port and Road Project - 2010 Summer Field Work**

1b. Project Number

Please indicate if applicant has submitted any previous application(s) to NRI related to this project proposal?

Yes (x) No ()

If yes, please indicate the previous NRI licence number: **Licence number unknown**

Please indicate if applicant has submitted any previous application(s) to NIRB related to this project proposal?

Yes (x) No ()

If yes, please indicate the previous NIRB licence number(s): **03UN114**

2. Applicant's full name and mailing address:

François Landry
Rescan Environmental Services Ltd.
Vancouver, BC V6E 2J3

Phone: **(604) 689-9460**
Fax: **(604) 687-4277**
Email: **flandry@rescan.com**

3. Field Supervisor's name and mailing address:

François Landry
Rescan Environmental Services Ltd.
Vancouver, BC V6E 2J3

Phone: **(604) 689-9460**
Fax: **(604) 687-4277**
Email: **flandry@rescan.com**

4. Other Personnel list (name, position, affiliation)

Tolga Olcay, Atmospheric Scientist, Rescan Environmental Services Ltd.

Eric Demers, Fish Biologist, Rescan Environmental Services Ltd.

Allyson Longmuir, Aquatic Biologist, Rescan Environmental Services Ltd.

Bob Askin, Senior Engineer (Water Resources)/Applied Geoscientist, Rescan Environmental Services Ltd.

Mike Soloducha, Hydrotechnical Technologist, Rescan Environmental Services Ltd.

Carol Adly, Environmental Biologist, Rescan Environmental Services Ltd. *-see attached other staff

SECTION 2: AUTHORIZATION NEEDED

1. Indicate all authorizations associated with the project proposal:

☐ Regional Inuit Association (RIA)
☐ Nunavut Water Board (NWB)
☐ Nunavut Planning Commission (NPC)

☐ Canadian Launch Safety (CLS)
☐ Environment Canada (EC)
☒ Department of Environment (GN)

- | | |
|---|---|
| <input type="checkbox"/> Department of Indian And Northern Development (DIAND) | <input type="checkbox"/> Department of National Defense (DND) |
| <input checked="" 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 checked="" type="checkbox"/> Nunavut Research Institute (NRI/GN) | <input type="checkbox"/> Canadian Wildlife Service (CWS) |
| <input type="checkbox"/> Department of Culture, Language, Elders, and Youth (CLEY/GN) | <input type="checkbox"/> Other (please specify):
_____ |

2. List the active permits, licences, or other rights related to the project proposal and their expiry date:

Permit:	Expiry Date
Lupin Mines Inc Water Licence 2AM-LUP0914 Type "A"	Expires March 31, 2014

3. Have you applied for all authorizations required to conduct the project proposal activities?

☒ Yes ☐ No

SECTION 3: PROJECT PROPOSAL DESCRIPTION

1. Indicate the activities related to the project proposal:

- | | |
|---|--|
| <input type="checkbox"/> Temporary camp (to be removed at end of field season) | <input type="checkbox"/> Soil disposal/ soil storage |
| <input type="checkbox"/> Permanent camp (to remain for life of authorization) | <input type="checkbox"/> Incineration of combustible wastes and removal of non-combustible wastes |
| <input type="checkbox"/> Construction of recreational or safety cabin | <input checked="" type="checkbox"/> River/ stream/ lake crossing or work/ bridge |
| <input type="checkbox"/> Temporary fuel storage (to be removed at end of field season) | <input type="checkbox"/> Drainage alteration |
| <input type="checkbox"/> Permanent fuel storage (to remain for life of authorization) | <input type="checkbox"/> Geoscientific sampling by diamond drilling |
| <input checked="" type="checkbox"/> Placement of structures for life of permit (other than camp or cabin " i.e. scientific instruments) | <input type="checkbox"/> Geoscientific sampling by soil sampling |
| <input type="checkbox"/> Placement of permanent structures (other than camp or cabin " i.e. scientific instruments) | <input type="checkbox"/> Geoscientific sampling by trenching |
| <input checked="" type="checkbox"/> Air surveys (i.e. geophysical, wildlife) | <input type="checkbox"/> Geoscientific sampling by borehole core |
| <input checked="" type="checkbox"/> Use of aircraft/watercraft/land vehicle for personnel drop-off and pick-up to project location | <input type="checkbox"/> Blasting |
| <input type="checkbox"/> Use of on-site mechanized vehicles (i.e. atv, snowmobile, truck, zodiac) | <input type="checkbox"/> Channeling |
| <input type="checkbox"/> Sewage or grey water disposal via sump | <input type="checkbox"/> Excavation |
| <input type="checkbox"/> Hazardous waste storage or disposal | <input checked="" type="checkbox"/> Hydrological testing |
| <input type="checkbox"/> Solid waste disposal | <input type="checkbox"/> Abandonment and restoration |
| <input type="checkbox"/> Chemical storage | <input type="checkbox"/> Site restoration (fertilization/ grubbing/ scarification/ spraying/ recontouring) |
| <input type="checkbox"/> Explosives storage | <input checked="" type="checkbox"/> Research |
| <input checked="" type="checkbox"/> Soil testing | <input checked="" type="checkbox"/> Ecological survey |
| <input type="checkbox"/> Harvesting | <input checked="" type="checkbox"/> Removal of vegetation for scientific purposes |
| <input type="checkbox"/> Other: _____ | |

2. Personnel

Total No. of personnel on site = (A)	21	Total No. of days on-site = (B)	13 on average/staff	Total No. of Person days (A) Ã— (B) =	270
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3. Timing

Period of operation:	June 22, 2010	to	October 15, 2010
Proposed term of authorization:	June 22, 2010	to	October 15, 2010

Please outline the phases of the proposed project (construction/ operation/ decommissioning) including the timing and scheduling of each phase.

There are no construction, operation, or decommissioning phases to the current field program of the project per se. The proposed research for 2010 is being conducted to fulfill data gaps and information requests from interveners such as INAC, DFO, Transport Canada, Health Canada, Environment Canada *see attached for remaining text

4. Location(s) of data collection:

Location Name	Region North Baffin, South Baffin, Kivalliq, Kitikmeot	Co-ordinates Lat (degree / minute), Long (degree / minute)	NTS Map Sheet Nr.	Land Status Crown, Commissionersâ€™, Inuit Owned
Port km 0	Kitikmeot	66°50'N, 108°00'W	076J12	39% Inuit owned 82 km, 61% Crown Land 129 km
Contwoyto Lake km 211	Kitikmeot	65°30'N, 110°40'W	076E08	for entire road corridor
_____	Study area along road corridor from Port to Contwoyto Lake	_____	_____	_____
_____	see attached for entire list of 11 NTS map sheets	_____	_____	_____

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

Lat (degree/minute) **65 deg 49.51' N** **Long** (degree/minute) **111 deg 14.75' W**

NTS Map Sheet Nr. (if different from above) **076E14**

Please attach maps (preferably 1:250,000 scale) which clearly indicate camp sites and research sites. PDF, jpeg or tiff versions are requested.

[Frm634122053318947518land-Project Map for BIPR BPR-06-003_T.pdf](#)

The Nunavut Impact Review Board may require additional location information 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 attach 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:

- Project Title
- Researcher's Name and Affiliation
- Project Location
- Timeframe
- Project Description
 - purpose
 - goals & objectives
 - method of transportation
 - any structures that will be erected (permanent / temporary)
 - restoration / abandonment plans
- Methodology
 - collection protocol
 - collection mechanisms
 - indicate why specific communities or individuals were selected for your research
- Data
 - short term & long term use of data
 - other uses of data
- Reporting
 - How will the research results be communicated to the individual participants, communities, regional and Nunavut organizations?
 - Will the research result in a publication?

[Frm634122053318947518land-2010 NRI BIPR Non-technical Summary.pdf](#)

[Frm634122053318947518land-2010 NRI BIPR Non-technical Summary_inuktitut.pdf](#)

[Frm634122053318947518land-2010 NRI BIPR Non-technical Summary-Inuinnaqtun.pdf](#)

SECTION 5: MATERIAL USE

1. List equipment (including drills, pumps, aircrafts, vehicles etc.):

Equipment type and number	Size & dimensions	Proposed use
Boats with motors (*see attached for full list)	Marine: 14 ft aluminum boat	sampling marine environment
GO-FLO water sampler	69 cm x 20 cm x 15 cm	to collect water
Eckman grab sampler	36 cm x 15 cm x 15 cm	to collect sediment and invertebrates
Hess sampler	36 cm x 36 cm x 46 cm	To sample stream benthic invertebrates
Hydrological station (4)	2 m x 2 m x 0.5 m (assembled)	Monitor water flow onsite
YSI temperature / dissolved oxygen probe	0.2 m x 0.05 m (+30 m cable)	To characterise the water column structure in lakes

2. Detail fuel and hazardous material use:

	Number of Containers Fuel and Capacity of Containers	Total Amount of Fuel (in Litres)	Proposed Storage Methods
Diesel	_____	_____	_____
Gasoline	1/205 L	100 L	drum
Aviation fuel	264/205 L	54,250 L	drums will be stored at Lupin Mine which is permitted to store this amount
Propane	_____	_____	_____
Other	_____	_____	_____
Hazardous Materials and Chemicals		Total Amount of Hazardous Materials and Chemicals (in Litres)	
Nitric Acid	24 very small vials (~1 ml) for water preservation	0.024 L	Plastic vial with lid
Hydrochloric Acid	24 very small vials (~1 ml) for water preservation	0.024 L	Plastic vial with lid
Formaldehyde solution	20%, 1 container	2 L	For fish preservation

3. Detail daily water consumption rates

Daily amount (in Litres)	Proposed water retrieval methods	Proposed water retrieval location
Water consumption rate is covered and described under the Lupin Mines Inc. Water Licence 2AM-LUP0914 Type "A"	Water retrieval method is via an underwater pipe described in the Lupin Mines Inc Water Licence 2AM-LUP0914 Type "A"	Water is retrieved from Contwoyto Lake and described in the Lupin Mines Inc Water Licence 2AM-LUP0914 Type "A"

4. Have you applied for a Class A Licence with the Nunavut Water Board?

() YES (x) NO

SECTION 6: WASTE DISPOSAL AND TREATMENT METHODS

1. List the types of waste:

Type of waste	Projected amount generated	Method of Disposal	Additional treatment procedures
Sewage (human waste)	Unknown - Covered under Lupin Mines Inc. Licences and Permits	Described in the Lupin Mines Inc. Licences and Permits	Part of Lupin Mines Inc. Licences and Permits
Greywater	Unknown - Covered under Lupin Mines Inc. Licences and Permits	Part of Lupin Mines Inc. Licences and Permits	Part of Lupin Mines Inc. Licences and Permits
	Unknown - Covered under		Part of Lupin Mines

Combustible wastes	Lupin Mines Inc. Licences and Permits	Part of Lupin Mines Inc. Licences and Permits	Inc. Licences and Permits
Non-Combustible wastes	_____	N/A	_____
Overburden (organic soil, waste material, tailings)	_____	N/A	_____
Hazardous waste	_____	N/A	_____
Other:	_____	N/A	_____

2. Will you be incinerating combustible waste, removing all solid waste, and removing the ash generated from incineration?

☒ YES

☐ NO

SECTION 7: COMMUNITY INVOLVEMENT & REGIONAL BENEFITS

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

Minute	_____	_____	_____
Community	Name	Organization	Date Contacted
Kugluktuk	Barbara Adjun, Manager	Kugluktuk Hunters & Trappers Organization	May 4, 2010
Cambridge Bay	Brenda Sitatik, Manager	Ekaluktutiak Hunters & Trappers Organization	June 5, 2010
Bathurst Inlet	Jacques Larabie, Manager	Kingaok Hunters & Trappers Organization	June 15, 2010

2. How will the proposed project benefit Nunavut? Will your project provide local employment or training opportunities? Please specify.

[The direct benefit to the residents of Nunavut will be from the training and work given to local residents. Four local residents will be employed this summer to assist Rescan scientists in the field. A total of 119 days of training and work will be given to the local residents.](#)

[The individuals will be from Bathurst Inlet and Cambridge Bay. *see attached for more info](#)

3. Please describe the nature of local services and/or logistic support that will be required from local communities, eg. Equipment, accommodations, outfitting, translations...

[Four local residents will be employed this summer to assist Rescan scientists in the field. A total of 119 days](#)

[of training and work will be given to the local residents. The individuals will be from Bathurst Inlet and Cambridge Bay.](#)

[Local translators have been used already to translate the application](#)

4. Describe and attach documentation regarding community support or concerns for the proposed project?

[Frm634122073284828667land-Rescan BIPR addendum for application.doc](#) _____

[This project started in 2001 and a series of meetings \(approx. 15\) with mayors, municipal councils, community elders, students, and stakeholders have occurred since 2001.](#)

[In addition, at least 14 Public Meetings have also occurred since 2001 in various Kitikmeot communities and Yellowknife.](#)

[NIRB hosted public scoping meetings in Yellowknife and Kitikmeot communities, and issued final guidelines for the Environmental Impact Statement \(EIS\) in December 2004. *see attached for more.](#)

5. Is there a traditional knowledge component to this research project? If yes, please explain:

[There is a Traditional Knowledge component to this study; however, a separate application will be filled out for it.](#)

[The "Scientific Research Licence Application Social Science and Traditional Knowledge Research" will be submitted at a later date.](#)

[The work on Traditional Knowledge is scheduled for later in 2010 and discussions with the Kitikmeot Inuit Association on the details of the research are underway. *see attached for more](#)

SECTION 8: GENERAL QUESTIONS

1. Do you give NRI permission to publish project information in the Nunavut Research Institute Annual Compendium of Research Undertaken in Nunavut?

☒ YES

☐ NO

2. Is the proposed research associated with International Polar Year (IPY)?

☐ YES ☒ NO

Applicant:

Francois Landry	Project Manager	June 15, 2010
Signature	Title	Date

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