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OFFICE DES EAUX DU NUNAVUT



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

April 2010

DOCUMENT MANAGEMENT

Original Document Date: January 2012

DOCUMENT AMENDMENTS

	Description	Date
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(2)		
(3)		
(4)		
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(6)		
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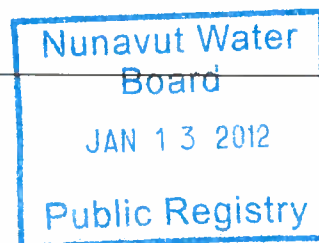
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**GENERAL WATER LICENCE APPLICATION
(APPLICATION FOR NEW WATER LICENCE)**

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) Transport Canada Environmental Affairs - Programs 3 rd Floor – 344 Edmonton Street Winnipeg, Manitoba R3C 0P6 Attention: Michael Molinski Phone: 204-984-0440 Fax: 204-983-5048 e-mail: michael.molinski@tc.gc.ca	2. APPLICANT REPRESENTATIVE CONTACT INFORMATION if different from Block 1 (name, address) Phone: _____ Fax: _____ e-mail: _____ (Attach authorization letter.)
3. NAME OF PROJECT (including the name of the project location) Resolute Bay Land Farm Maintenance / Decommissioning	
4. LOCATION OF UNDERTAKING Project Extents NW: Latitude: (74 °44' 34.28"N) Longitude: (95°00'17.18"W) NE: Latitude: (74°44'34.58"N) Longitude: (95°00'02.78"W) SE: Latitude: (74°44'30.04"N) Longitude: (95°00'01.46"W) SW: Latitude: (74°44'30.52"N) Longitude: (95°00'15.23"W) Camp Location(s) NO CAMP LOCATIONS, construction personnel will stay in local hotels. Latitude: (° ' " N) Longitude: (° ' " W)	
5. MAP - Attach a topographical map, indicating the main components of the undertaking. NTS Map Sheet No.: 58F11/12 Map Name: Resolute Map Scale: 1:50,000	



6. **NATURE OF INTEREST IN THE LAND** - Check any of the following that are applicable to the proposed undertaking (at least one box under the 'Surface' header must be checked).

Sub-surface

☐ Mineral Lease from Nunavut Tunngavik Incorporated (NTI)

Date (expected date) of issuance: _____ Date of expiry: _____

☐ Mineral Lease from Indian and Northern Affairs Canada (INAC)

Date (expected date) of issuance: _____ Date of expiry: _____

Surface

☐ Crown Land Use Authorization from Indian and Northern Affairs Canada (INAC)

Date (expected date) of issuance: _____ Date of expiry: _____

☐ Inuit Owned Land (IOL) Authorization from Kitikmeot Inuit Association (KIA)

Date (expected date) of issuance: _____ Date of expiry: _____

☐ IOL Authorization from Kivalliq Inuit Association (KivIA)

Date (expected date) of issuance: _____ Date of expiry: _____

☐ IOL Authorization from Qikiqtani Inuit Association (QIA)

Date (expected date) of issuance: _____ Date of expiry: _____

☐ Commissioner's Land Use Authorization

Date (expected date) of issuance: _____ Date of expiry: _____

X Other: Resolute Bay Airport Land REMEDIATION Federal Land

Date (expected date) of issuance: **2012** Date of expiry: **2016**

Name of entity(s) holding authorizations: _____

7. **NUNAVUT PLANNING COMMISSION (NPC) DETERMINATION**

Indicate the land use planning area in which the project is located.

X North Baffin

☐ South Baffin

☐ Akunnig

☐ Keewatin

☐ Sanikiluaq

☐ West Kitikmeot

Is a land use plan conformity determination required?

Yes

☒ No

If Yes, indicate date issued and attach copy _____

If No, provide written confirmation from NPC confirming that a land use plan conformity review is not required.

8. NUNAVUT IMPACT REVIEW BOARD (NIRB) DETERMINATION

Is an Article 12 Part 4 screening determination required?

☐ Yes

TBD by NIRB

X No

If Yes, indicate date issued and attach copy _____

If No, provide written confirmation from NIRB confirming that a screening determination is not required.

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

The Resolute Bay airport was originally constructed in 1949 by the Royal Canadian Air Force. From 1964 to July 1, 1995, Resolute Bay Airport was owned by the Government of Canada and operated by Transport Canada. In July 1995, ownership was transferred to the Government of Northwest Territories. From July 1, 1995 to April 1, 1999, this airport was operated by the Arctic Airport Division of the Department of Transportation. Since April 1, 1999, the airport has been owned by the Government of Nunavut (GN) and operated by the Nunavut Airports Division of the Nunavut Department of Community Government, Housing and Transportation.

In 2001/02 remedial works at the Fire Training Area (FTA) commenced. Work included removal and disposal of aircraft mock up consisting of several large steel tanks, removal and disposal of 20,000L above ground storage tank and associated piping, removal and disposal of the existing pump house and pump as well as a number of unlabeled 205L drums. Once this stage was completed, two land farms were constructed to contain approximately 5800m³ of petroleum hydrocarbon contaminated soil. The soil was then removed and placed into the two land farms for subsequent treatment. On-going maintenance to the land farms is required to complete the remediation of the contaminated soil. This consists of turning the soil for better aeration, reduce compaction and the addition of nutrients to further increase the rate of remediation. Once this is completed, soil and water samples are submitted for analysis to ascertain if the soils have reached the target levels. Once these levels have been achieved, the facility can be decommissioned and closed. This process of maintenance may take several years to complete due to the short summer season, amounts of rain and snow, the levels and type of contamination. Maintenance was completed in 2002/03 and 2003/04.

The process of decommissioning the facility includes soil and water testing to ensure the material has reached the required levels. Once this is confirmed, the soil will be removed and stockpiled adjacent to the excavation, the liner will be removed and disposed of in the local landfill. The excavated area will be back filled with the remediated soil and graded to match the surrounding topography.

No additional works have been undertaken since 2003/04. The facility requires the yearly maintenance to complete the remediation otherwise the soils will not reach the target goals and will remain a liability to the department. The project has not continued since this time due to many factors such as limited funds provided to the region, project priority, availability of human resources, internal funding process requirements and the limited window of time to work in a remote location.

- 1) Site map location of Land Farm at Resolute Bay Airport.
- 2) Final Report Resolute Bay Remedial Works WERI / Eng-Tech, 2005.

10. OPTIONS – Provide a brief explanation of the alternative methods or locations that were considered to carry out the project.
No alternate locations or methods apply.

11. **CLASSIFICATION OF PRIMARY UNDERTAKING** - Indicate the primary classification of undertaking by checking one of the following boxes.

- | | |
|---|---|
| <input type="checkbox"/> Industrial | <input type="checkbox"/> Agricultural |
| <input type="checkbox"/> Mining and Milling (includes exploration/drilling/exploration camps) | |
| <input type="checkbox"/> Conservation | |
| <input type="checkbox"/> Municipal (includes camps/lodges) | <input type="checkbox"/> Recreational |
| <input type="checkbox"/> Power | <input checked="" type="checkbox"/> Miscellaneous (describe below):
-Land Farm maintenance and decommissioning. |

See Schedule II of *Northwest Territories Waters Regulations* 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. **None Apply.**

- ☐ Hydrostatic Testing
- ☐ Tannery
- ☐ Tourist / Remote Camp
- ☐ Landfarm & On-Site Storage of Hydrocarbon Contaminated Soil
- ☐ Onshore Oil and Gas Exploration Drilling
- ☐ Mineral Exploration / Remote Camp
- ☐ Advanced Exploration
- ☐ Mine Development
- ☐ Municipal
- ☐ General Water Works
- ☐ Power

12. **WATER USE** - Check the appropriate box(s) to indicate the type(s) of water use(s) being applied for.

- | | |
|--|---|
| <input type="checkbox"/> To obtain water for camp/ municipal purposes | |
| <input type="checkbox"/> To obtain water for industrial purposes | <input type="checkbox"/> To divert a watercourse |
| <input type="checkbox"/> To cross a watercourse | <input type="checkbox"/> To modify the bed or bank of a watercourse |
| <input type="checkbox"/> To alter the flow of, or store water | <input type="checkbox"/> Flood control |
| X Other: No Water Use, No modification of watercourse, No distribution of water | |

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):

No Water Sources Used _____

Describe the quality of the water source(s) and the available capacity: **No Water Sources Used**

Provide the overall estimated quantity of water to be used: **No Water Sources Used** m³/day

Provide the estimated quantity(s) of water to be used from each source:

No Water Sources Used _____

Indicate the estimated quantities to be used for each purpose (camp, drilling, etc.)

No Water Sources Used _____

Describe the method of extraction(s): **No Water Sources Used** _____

Estimated quantity(s) of water returned to source(s) **No Water Sources Used** _____ m³/day

Describe the quality of water(s) returned to source(s): **No Water Sources Used** _____

14. **WASTE** – Check the appropriate box(s) to indicate the types of waste(s) generated and deposited.

☐ Sewage

☐ Solid Waste

☐ Hazardous

☐ Bulky Items/Scrap Metal

☐ Animal Waste

☐ Waste oil

☐ Greywater

☐ Sludges

☐ Contaminated soil and/or water

X Other (describe): Liner material will be disposed of at the local landfill.

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
Liner	Plastic	70X40m	Disposal	Landfill
Liner	Plastic	95x65m	Disposal	Landfill

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: **No Authorization Required** _____

Administering Agency: **No Authorization Required** _____

Project Activity_ **No Authorization Required** _____

Date (expected date) of issuance: **NONE** Date of expiry: _____

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

No impacts related to water and waste

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. **There are no known persons or adjacent properties that may be adversely affected. Thus, an overall positive impact for the environment and health and safety.**

Advise the Board if compensation has been paid and/or agreement(s) for compensation have been reached with any existing or other users. **NONE**

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**

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. **Not Applicable**

Public Involvement/ Traditional Knowledge

Community	Name	Organization	Date Contacted
Resolute Bay	Jason, Brown (APM)	Government of Nunavut	January 2012

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.

Estimated cost to complete the work is \$650.0K over 5 years.

22. FINANCIAL INFORMATION

Cleaning-up contaminated sites is a key initiative of the current Government. A July 26, 2007 news release by the Minister of Environment stated that the Government takes its responsibilities to protect the human health and safety of Canadians and the environment very seriously and will provide funding to accelerate clean-ups.

Transport Canada is obligated under the land transfer agreement with Resolute Bay Airport to address the contaminated site issues at the Sites where the contamination originated prior to the transfer date. Completion of this project will address the environmental liabilities associated with the Site and allow the department to meet the transfer commitments.

Treasury Board Policy 1) Management of Real Property

2) Accounting Standard- Public Sector Accounting Board (PSAB) - Remediation Liabilities Related to Contaminated Sites:

The accounting for remediation liabilities related to contaminated sites is driven by the accounting policies of the Government of Canada, which are based on the accounting standards set by the Public Sector Accounting Board (PSAB) and by the *Policy on Management of Real Property* and its associated directives, standards and guides and its relevant legislation. The liabilities are reported in the Public Accounts of Canada.

Prior to divesting a property, federal departments must ascertain the environmental condition of the property in compliance with Treasury Board Secretariat's Policy on Management of Real Property. To determine the environmental condition, a phased site assessment approach is conducted in accordance with industry standards (i.e. Canadian Standards Association).

Completion of this project will address the environmental liabilities associated with the site and allow Transport Canada to meet the transfer commitments and to report costs and liabilities for their contaminated sites to the Treasury Board Secretariat annually.

23. STUDIES UNDERTAKEN TO DATE - List and attach copies of studies, reports, research, etc.

- 3) Site map location of Land Farm at Resolute Bay Airport.
- 4) Final Report Resolute Bay Remedial Works WERI / Eng-Tech, 2005.

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: _____ Proposed Completion Date: _____
(month/year) (month/year)

Operation

Proposed Start Date: _____ **July 2012** Proposed Completion Date: **October 2015** _____
(month/year) (month/year)

Closure

Proposed Start Date: _____ **July 2016** Proposed Completion Date: **September 2016** _____
(month/year) (month/year)

Post - Closure

Proposed Start Date: _____ Proposed Completion Date: **September 2015** _____
(month/year) (month/year)

For each applicable phase of development indicate which season(s) activities occur.

Construction

☐ Winter ☐ Spring ☐ Summer ☐ Fall ☐ All season

Operation

☐ Winter ☐ Spring ☒ Summer ☐ Fall ☐ All season

Closure

☐ Winter ☐ 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): **Five (5) years**

Requested Date of Issuance: **July 2012** _____ Requested Expiry Date: **October 2016** _____
(month/year) (month/year)

(The requested date of issuance must be at least three (3) months from the date of application for a type B water licence and at least one (1) year from the date of application for a type A water licence, to allow for processing of the water licence application. These timeframes are approximate and do not account for the time to complete any pre-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 *Guide 5: Processing Water Licence Applications* for more information)

26. **ANNUAL REPORTING** – If not using the NWB's *Standardized Form for Annual Reporting*, provide details regarding the content of annual reports and a proposed outline or template of the annual report.

The consultant awarded the contract is required to compile an annual report, which details the project activities. This report can be made available to the NWB.

27. **CHECKLIST** – The following must be included with the application for the water licensing process to begin.

Written confirmation from the NPC confirming that NPC's requirements regarding land use plan conformity have been addressed.

Yes ☒ No ☐ If no, date expected to be determined by NPC

Written confirmation from the NIRB confirming that NIRB's requirements regarding development impact assessment have been addressed.

☐ Yes ☒ No ☐ If no, date expected to be determined by NIRB

Completed General Water Licence Application form.

☒ Yes ☐ No ☐ If no, date expected _____

Information addressing Supplemental Information Guideline (SIG) , where applicable (see Block 11)

☐ Yes ☒ No ☐ If no, date expected NONE

English Summary of Application.

☒ Yes ☐ No ☐ If no, date expected _____

Inuktitut and/or Inuinnaqtun Summary of Application.

☒ Yes ☐ No ☐ If no, date expected _____

Application Fee of \$30.00 CDN (Payee Receiver General for Canada).

☐ Yes ☒ No ☐ If no, date expected **Government of Canada Exempt**

Water Use Fee Deposit of \$30.00 CDN (Payee Receiver General for Canada). The actual water use fee will be calculated by the NWB based upon the amount of water authorized for use in accordance with the Regulations at the time of issuance of the licence.

☐ Yes ☒ No ☐ If no, date expected _____

28. **SIGNATURE**

<u>M. MOLINSKI</u>	<u>ENVIRONMENT OFFICER</u>	<u>[Signature]</u>	<u>JAN 5, 2012</u>
Name (Print)	Title (Print)	Signature	Date