



Application for Water Licence Renewal

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Month/Day/Year

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DOCUMENT MANAGEMENT

Original Document Date: April 2010

DOCUMENT AMENDMENTS

	Description	Date
(1)	Updated for public distribution as separate document from NWB Guide 7	June 2010
(2)	Updated NWB logos and reformatted table to allow rows to break across page	May 2011
(3)	New NWB logo and request for background information	April 2013
(4)		
(5)		
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APPLICATION FOR WATER LICENCE RENEWAL

Your application may be classified as a **renewal** only if all operations remain the same as previously licensed and only the term of the licence requires change. If your application contemplates:

- a change to the volume of water authorized for use;
- a new activity related to water use or waste disposal;
- a new component related to water use or waste disposal;
- a change in predicted environmental impacts(s); and/or
- a change to any term or condition of the original licence

your application is **NOT** classified as a renewal but rather an amendment and will require submission of an Application for Water Licence Amendment. Licensees applying for combined renewal / amendment are also referred to the Application for Water Licence Amendment.

The applicant is referred to the NWB's Guide 7: *Licensee Requirements Following the Issuance of a Water Licence* for more information about this application form.

Where possible, provide background information regarding the original licence application or attach previously submitted information.

EXISTING LICENCE NO: _1BR-LTU1013_____

1. LICENSEE CONTACT INFORMATION

Is the licensee the same as that referred to on the existing licence?

X Yes ☐ No

If No, a licence assignment must be completed and approved by the NWB. **A renewal will only be issued in the name of the current licensee in the absence of assignment of the licence.**

If the licensee is the same, but the name of the licensee has changed, attach a certificate of name change.

Name: Transport Canada: Mike Molinski

Address: 344 Edmonton Street Wpg, MB

Phone: 204-984-0440 _____

Fax: 204-984-5048 _____

e-mail: michael.molinski@tc.gc.ca _____

2. LICENSEE REPRESENTATIVE CONTACT INFORMATION – If different from Block 1.

Name: _____

Address: _____

Phone: _____

Fax: _____

e-mail: _____

(Attach authorization letter.)

3. NAME OF PROJECT

Is the name of the project the same as that considered in the existing water licence?

X Yes ☐ No

Indicate the name of the project including the name of the location: Iqaluit Airport Landfarm Operations_____

4. LOCATION OF UNDERTAKING

Is the location of the undertaking the same as that considered in the existing water licence?

X Yes ☐ No

Project Extents

NW: Latitude: (63°45'25.86" N)

Longitude: (68°33'00.23" W)

NE: Latitude: (63°45'26.63" N)

Longitude: (68°32'56.59" W)

SE: Latitude: (63°45'95 N)

Longitude: (68°33'01.04" W)

SW: Latitude: (63°45'25.32" N)

Longitude: (68°33'07.01" W)

Camp Location(s) NOT APPLICABLE

Latitude: (° ' " N)

Longitude: (° ' " W)

5. MAP

Are the locations of the main components of the undertaking the same as those considered in the existing licence?

X Yes ☐ No

Attach a topographical map, indicating the main components of the undertaking. **Please See attached**

NTS Map Sheet No.: _____ Map Name: _____ Map Scale: 1:20,000 and 1:2,000

6. NATURE OF INTEREST IN THE LAND

Is the nature of the interest in the land the same as that considered in the existing water licence?

☒ Yes ☐ No

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: _____

☒ Other Government of Nunavut Airport Operations _____

Date (expected date) of issuance: May 15/2014 Date of expiry: December 31, 2019

Is the name of the entity(s) holding authorizations the same as that considered in the existing water licence?

☒ Yes ☐ No

If No, a licence assignment must be completed and approved by the NWB.

Name of entity(s) holding authorizations:

7. NUNAVUT PLANNING COMMISSION (NPC) DETERMINATION

Is the undertaking located in the same land use planning area as that considered in the existing licence?

☒ Yes ☐ No

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

☐ North Baffin
☒ South Baffin
☐ Akunnig

☐ Keewatin
☐ Sanikiluaq
☐ West Kitikmeot

Was a land use plan conformity determination required from NPC prior to the issuance of the existing water licence?

Yes ☒ No

If Yes, indicate date issued and attach copy. _____

Does the proposed renewal change the original NPC conformity determination or the need to obtain one?

☐ Yes ☒ No*

If Yes, indicate date issued (or expected) and attach a copy. _____

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

*Landfarms are located adjacent to the Iqaluit Airport runway in a developed and secure location.

8. NUNAVUT IMPACT REVIEW BOARD (NIRB) DETERMINATION

Was a screening determination required from NIRB prior to the issuance of the existing water licence?

☐ Yes ☒ No

If Yes, indicate date issued and attach copy. _____

Does the proposed renewal change the original NIRB screening determination or the need to obtain one?

☐ Yes ☒ No

If Yes, indicate date issued (or expected) and attach a copy. _____

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

PLEASE SEE ATTACHED

9. DESCRIPTION OF UNDERTAKING

Is the description of the undertaking the same as that considered in the existing water licence?

X Yes ☐ No

List and attach plans and drawings or project proposal.

Please see the attached project summary, maps and photos.

10. OPTIONS

Are the alternative methods and locations that were considered to carry out the project the same as those considered in the existing water licence?

X Yes ☐ No

Provide a brief explanation of the alternative methods or locations that were considered to carry out the project. Other options (1) was to do nothing which does not satisfy the transfer agreement requirements. Option number 2 was to send the contaminated soil for treatment outside of NU. This option was not financially viable.

11. CLASSIFICATION OF PRIMARY UNDERTAKING

Is the primary undertaking the same as that considered in the existing water licence?

X Yes ☐ No

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 | X Miscellaneous (describe below):
_landfarming contaminated soil_____ |

See Schedule II of the *Northwest Territories Waters Regulations* for Description of Undertakings.

12. WATER USE

Is the type(s) of water use(s) the same as that considered in the existing water licence?

X Yes ☐ No

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

13. QUANTITY OF WATER INVOLVED

Is the source of water the same as that considered in the existing licence?

X Yes ☐ No

Name of water source(s): ☐ No water use at this site _____
(show location(s) on map)

Is the quality of the water source and its available capacity the same as that considered in the existing licence?

X Yes ☐ No

Describe the quality of the water source(s) and the available capacity(s): ☐ No water use at this site _____

Is the overall estimated quantity of water to be used the same as that considered in the existing licence?

X Yes ☐ No

Provide the overall estimated quantity of water to be used: _____ ZERO(0) _____ m³/day

Are the quantity(s) of water to be used from each source the same as those considered in the existing licence?

X Yes ☐ No

Provide the estimated quantity(s) of water to be used from each source: ☐ No water use at this site _____

Are the quantity(s) of water to be used for each purpose the same as those considered in the existing licence?

X Yes ☐ No

Provide the estimated quantities to be used for each purpose (camp, drilling, etc.): ☐ No water use at this site _____

Are the method(s) of extraction the same as those considered in the existing licence?

X Yes ☐ No

Describe the method(s) of extraction: _____ ☐ No water use at this site _____

Are the quantity(s) of water returned to source(s) the same as those considered in the existing licence?

X Yes ☐ No

Estimated quantity(s) of water returned to source(s): _____ ☐ No water use at this site _____ m³/day

Are the quality(s) of water(s) returned to source(s) the same as those considered in the existing licence?

X Yes ☐ No

Describe the quality(s) of water(s) returned to source(s): _____ ☐ No water use at this site _____

14. WASTE

Are the type(s) of waste(s) to be generated and/ or deposited the same as those considered in the existing licence?

X Yes ☐ No

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

- | | |
|--|---|
| <input type="checkbox"/> Sewage | <input type="checkbox"/> Waste oil |
| <input type="checkbox"/> Solid Waste | <input type="checkbox"/> Greywater |
| <input type="checkbox"/> Hazardous | <input type="checkbox"/> Sludges |
| <input type="checkbox"/> Bulky Items/Scrap Metal | <input type="checkbox"/> Contaminated soil and/or water |
| <input type="checkbox"/> Animal Waste | |
- X Other (describe): _____ No Waste generated at site _____

15. QUANTITY AND QUALITY OF WASTE INVOLVED

Are the quantity(s) of the types of wastes involved the same as those considered in the existing licence?

X Yes ☐ No

Are the composition(s) of the types of wastes involved the same as those considered in the existing licence?

X Yes ☐ No

Are the method(s) of treatment for the types of waste involved the same as those considered in the existing licence?

X Yes ☐ No

Are the method(s) of disposal for the types of waste involved the same as those considered in the existing licence?

X Yes ☐ No

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
No waste generated at this site				

16. OTHER AUTHORIZATIONS

In addition to the sub-surface and surface land use authorizations provided in Block 6, are the same authorizations required as considered in the existing licence?

X Yes ☐ No

For each provide the following:

Authorization: _____ No additional authorizations for this site _____

Administering Agency: _____

Project Activity: _____

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

17. PREDICTED ENVIRONMENTAL IMPACTS OF UNDERTAKING AND PROPOSED MITIGATION MEASURES

Are predicted environmental impacts of the undertaking and proposed mitigation measures the same as those considered in the existing water licence?

X Yes ☐ No

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 WATER USERS

Are the effects of the undertaking on any known persons or property including those that hold licences for water use in precedence 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, the same as those considered in the existing water licence?

X Yes ☐ No

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. NONE

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

Are the effects of the undertaking on the quality, quantity or flow of waters flowing through Inuit Owned Land (IOL) the same as those considered in the existing water licence?

X Yes ☐ No

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.

NONE

21. SECURITY INFORMATION

Is the financial security assessment the same as that considered in the existing water licence?

X Yes ☐ No

Is the estimate of the total financial security for final reclamation the same as that considered in the existing water licence?

X Yes ☐ No

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. **Not applicable**

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.

22. FINANCIAL INFORMATION

Is the statement of financial security the same as that considered in the existing water licence?

X Yes ☐ No

Provide an updated statement of financial security.

If the applicant is a business entity please answer the questions below:

Is the list of the officers of the company the same as those considered in the existing water licence?

X Yes ☐ No

Provide a list of the officers of the company.
As per block 1 above.

Is the Certificate of Incorporation or evidence of registration of the company name the same?

X Yes ☐ No

Attach a copy of the Certificate of Incorporation or evidence of registration of the company name. Government of Canada – Transport Canada

23. STUDIES UNDERTAKEN TO DATE

List and attach updated studies, reports, research etc. NONE

Provide a compliance assessment and status report including a response to any inspector's reports. The licensee must contact the NWB for licence specific direction in completing the assessment and report. NONE

If in non-compliance, a licence may not be issued until compliance is achieved. If in non-compliance, attach plans/reports for consideration. Application will not be processed if significant issues of non-compliance exist.

24. PROPOSED TIME SCHEDULE

Is the time schedule for all phases of development (construction, operations, closure and post closure) the same as that considered in the existing licence?

☐ Yes ☐ No

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: _____ April 2014 _____ Proposed Completion Date: _____ Oct 2019 _____
(month/year) (month/year)

Closure

Proposed Start Date: _____ Nov 2019 _____ Proposed Completion Date: _____ Dec 2019 _____
(month/year) (month/year)

Post - Closure

Proposed Start Date: _____ Dec 2019 _____ Proposed Completion Date: _____ Dec 2019 _____
(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

On what date does the existing licence expire? ___Dec 31, 2014_____

Indicate the proposed term of the renewal (maximum of 25 years): ___5 years_____

Requested date of renewal issuance: ___April 25, 2014_ Requested Expiry Date: Dec 31, 2019_____
(month/year) (month/year)

(The requested date of renewal 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

Is the annual report template expected to be the same as that considered in the existing licence?

☒ Yes ☐ No

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.

27. CHECKLIST

The following must be included with the application for renewal for the water licensing process to begin.

Completed Application for Water Licence Renewal form.

X Yes ☐ No If no, date expected _____

Updated plans, including designs and reports (see Block 23).

X Yes ☐ No If no, date expected ____ See attached map sheets ____

Updated security assessment (see Block 21).

☐ Yes X No If no, date expected ____ NA ____

Updated financial statement (see Block 22).

☐ Yes X No If no, date expected ____ NA ____

Compliance Assessment / Status Report (see Block 23).

☐ Yes X No If no, date expected ____ N/A ____

English Summary of Renewal Application.

X Yes ☐ No If no, date expected _____

Inuktitut and/or Inuinnaqtun Summary of Renewal Application.

X Yes ☐ No If no, date expected _____

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

X Yes ☐ No If no, date expected ____ MasterCard# ____

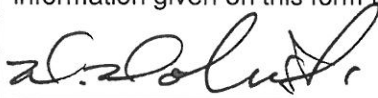
Water Use Fee Deposit of \$30.00 CDN (Payee Receiver General for Canada). The actual water use fee will be calculated by the NWB based upon the amount of water authorized for use in accordance with the Regulations at the time of issuance of the licence.

☐ Yes ☐ No If no, date expected _____

28. SIGNATURE

I, MIKE MOLINSKI (print name)

certify that the application requires no changes to water use or waste disposal as previously authorized and that the information given on this form is, to the best of my knowledge, correct and complete.



Signature

APRIL 28 / 14.
Date

PROJECT SUMMARY

Background

Transport Canada (TC) transferred the Iqaluit Airport to the Government of Northwest Territories (GNWT) in 1995, which has since been transferred to the Government of Nunavut Airports Division of the Nunavut Department of Community Government, Housing and Transportation. As a condition of the Arctic "A" transfer agreement (July 1995) between GNWT and Transport Canada, the environmental issues which exist prior to the airport transfer must be remediated, as well as any items identified by the GNWT within six (6) years after transfer date. As part of this agreement TC remediated the apron fuel hydrant contaminated soil in 2006. The remediation consisted of removing soil at the apron contaminated with petroleum hydrocarbons (PHC) and placing it in newly constructed landfarms to be treated over several years. The Nunavut Water Board required TC to apply and obtain a water license to construct, maintain and decommission the landfarms. This application is to renew the water license originally obtained in 2006 to continue in treating the soil.

Project Description

The maintenance will take place once per year consisting of mechanically turn the soil in both cells. Tilling will be completed using an excavator with a toothless bucket. The soil will be turned over, broken up and mixed to maximize bio-degradation. Once the tilling of the soil is completed, the twelve (12) composite soil samples from the LTU measuring 90m X 40m and eight (8) composite soil samples from the LTU measuring 55m X 40m. Water samples from each of the three (3) monitoring wells will be submitted to a certified laboratory for analysis. Fertilizer will be added to the LTU cells in the appropriate amounts as recommended by the manufacturer to achieve the target ratio for the specific volume of soil in the LTU to speed bio-degradation. The fertilizer used will have a content consisting of a carbon:nitrogen:phosphorus (C:N:P) ratio between 100:10:1 to 100:1:0.5.

Site Description

The LTU is located at the Iqaluit Airport 63 degrees 45' 26.99"N 68 degrees 32' 59.72"W. The 2 LTUs are approximately 55m X 45m and 90m X 40m. The construction of the LTUs were initiated and completed in the fall of 2006. TC anticipated constructing one large LTU cell on site, however the topographic conditions and airport operations made this difficult due to restriction related to the runway and the adjacent taxiway and apron. Therefore, TC constructed two smaller LTU cells (C & D) adjacent to the previously constructed LTU cells (A & B) that will be decommissioned in the near future. Cell D is approximately 55m X 40m and cell C is approximately 90m X 40m. Both cells were constructed to the same specifications as described in the water license

application and as the engineered drawing indicates. Appendix I contains figures demonstrating the location of LTUs.

In addition, a geofabric was placed overtop of the liner material as extra protection from tears and punctures from rocks, branches and equipment. Clean remediated soil from cell B was used as ballast material for both cells since no contaminated soil was placed in cell C and D in 2006. TC anticipated remedial works at the airport for future years that would require the use of the LTU. Each LTU is constructed to hold a maximum depth of 1m of material. Therefore, cell D has the potential capacity of 2200m³ and cell C has the potential capacity of 3600 m³. The nearest building is the Airport Maintenance Garage approximately 400m to the northeast, the Air Terminal Building approximately 1000m to the southeast and the nearest drainage channel is located adjacent to the airport runway approximately 155m to the southwest of the LTU site. The nearest water body is the Ocean located approximately 3.0 km to the southeast. The topography of the site is flat and nearly at sea level. The area surrounding the airport has a gentle slope to the southeast toward the ocean. Appendix I identifies the location of the site and their proximity to nearby infrastructure, water bodies, ponds, streams, drainage channels and site contours.

The LTU is located in a developed area at the Iqaluit airport that requires security clearance to enter the site since it is located airside. Therefore, it does not impact communities, traditional use areas (hunting and trapping camps), sensitive areas, parks, game preserves, resource harvesting areas, fish spawning areas, waterfowl habitat, animal migration routes, beaches, archaeological and historic sites, public or private water supplies.

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204.792.0034 (Δ^ϭΔ^ϭΔ^ϭΔ^ϭ)
204.983.5048 (Δ^ϭΔ^ϭΔ^ϭΔ^ϭ)
Δ^ϭΔ^ϭΔ^ϭΔ^ϭΔ^ϭ: molinsm@tc.gc.ca

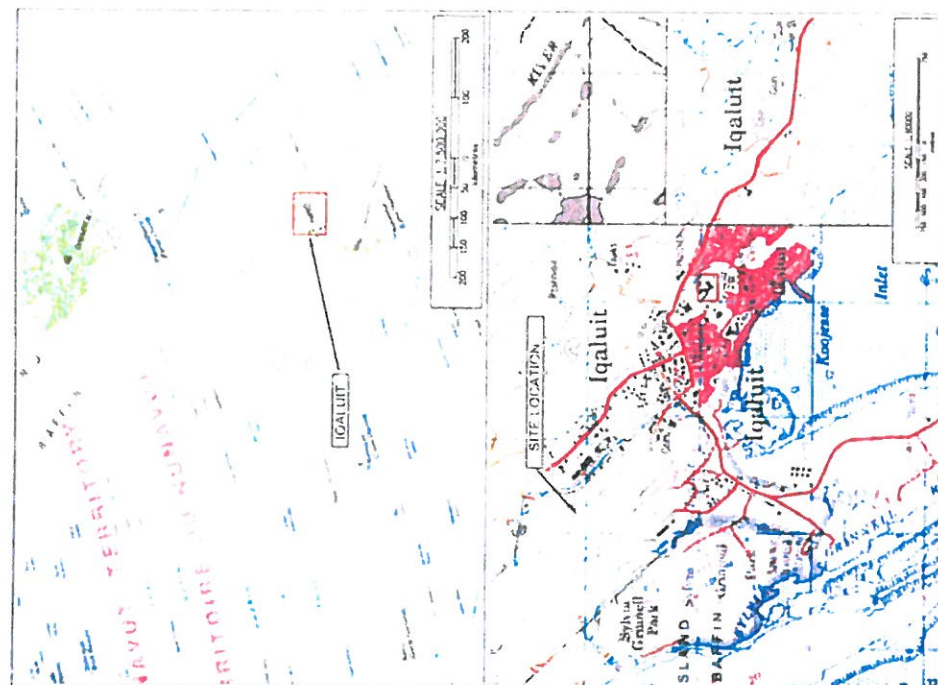
Δ^ϭΔ^ϭΔ^ϭ: Δ^ϭΔ^ϭΔ^ϭ 6, 2006

- [illegible]




LTU LOCATIONS

SCALE 1:4000



SITE LOCATION

SCALE 1:10000

		SITE LOCATION Project: LTU AS-BUILT REPORT IQUALUIT AIRPORT IQUALUIT NT Date: JUNE 2010 Scale: 1:10000
Client: TRANSPORT CANADA		Figure 1

- References**
- 1. "Iqaluit 1:100,000 Scale Map", MapQuest, July 2007
 - 2. "Iqaluit 1:100,000 Scale Map", MapQuest, July 2007
 - 3. "Iqaluit 1:100,000 Scale Map", MapQuest, July 2007
 - 4. "Iqaluit 1:100,000 Scale Map", MapQuest, July 2007
 - 5. "Iqaluit 1:100,000 Scale Map", MapQuest, July 2007
 - 6. "Iqaluit 1:100,000 Scale Map", MapQuest, July 2007
 - 7. "Iqaluit 1:100,000 Scale Map", MapQuest, July 2007
 - 8. "Iqaluit 1:100,000 Scale Map", MapQuest, July 2007
 - 9. "Iqaluit 1:100,000 Scale Map", MapQuest, July 2007
 - 10. "Iqaluit 1:100,000 Scale Map", MapQuest, July 2007

Figure 1: Location of LTU at Iqaluit Airport, Nunavut Scale 1:10,000

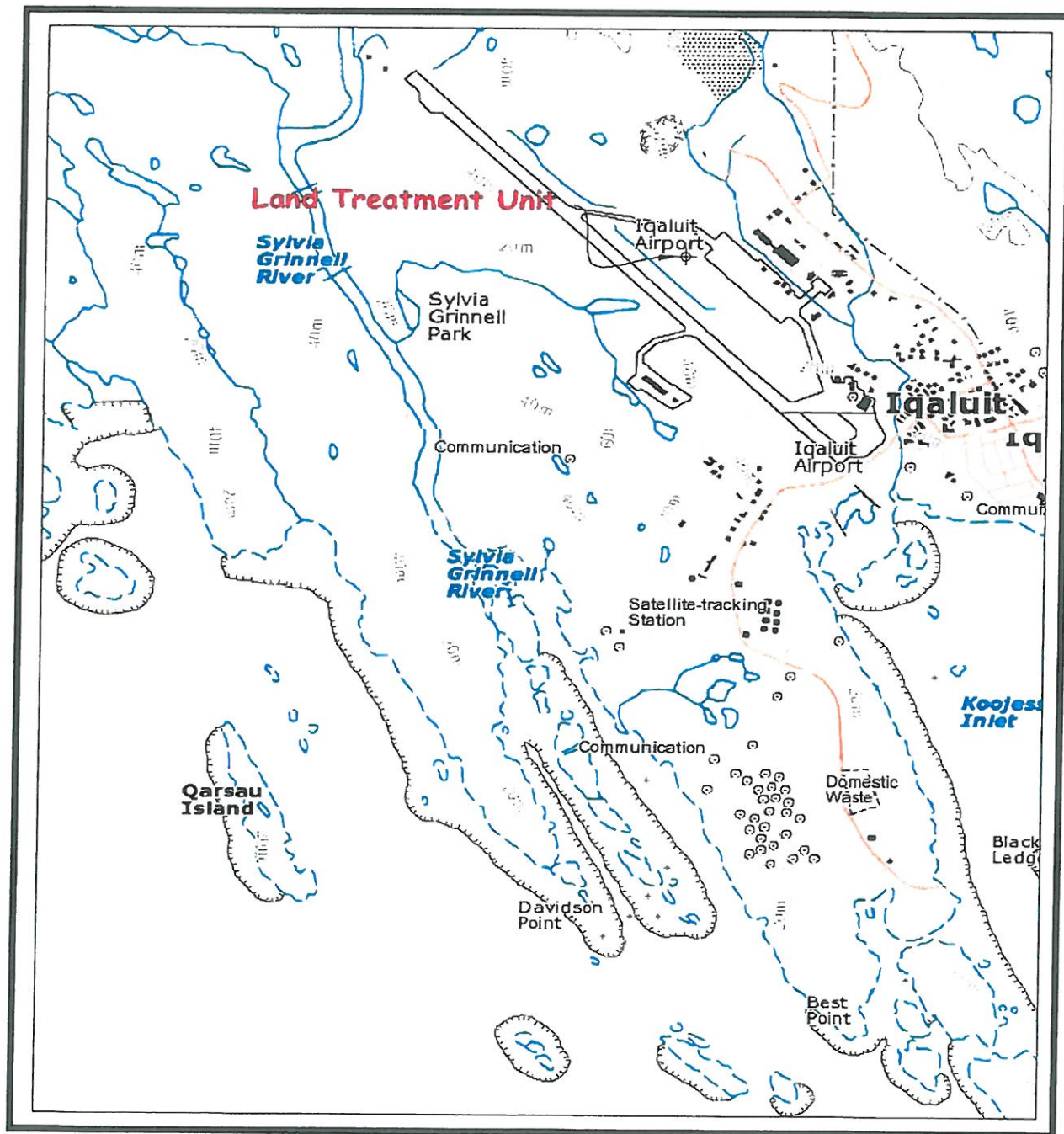
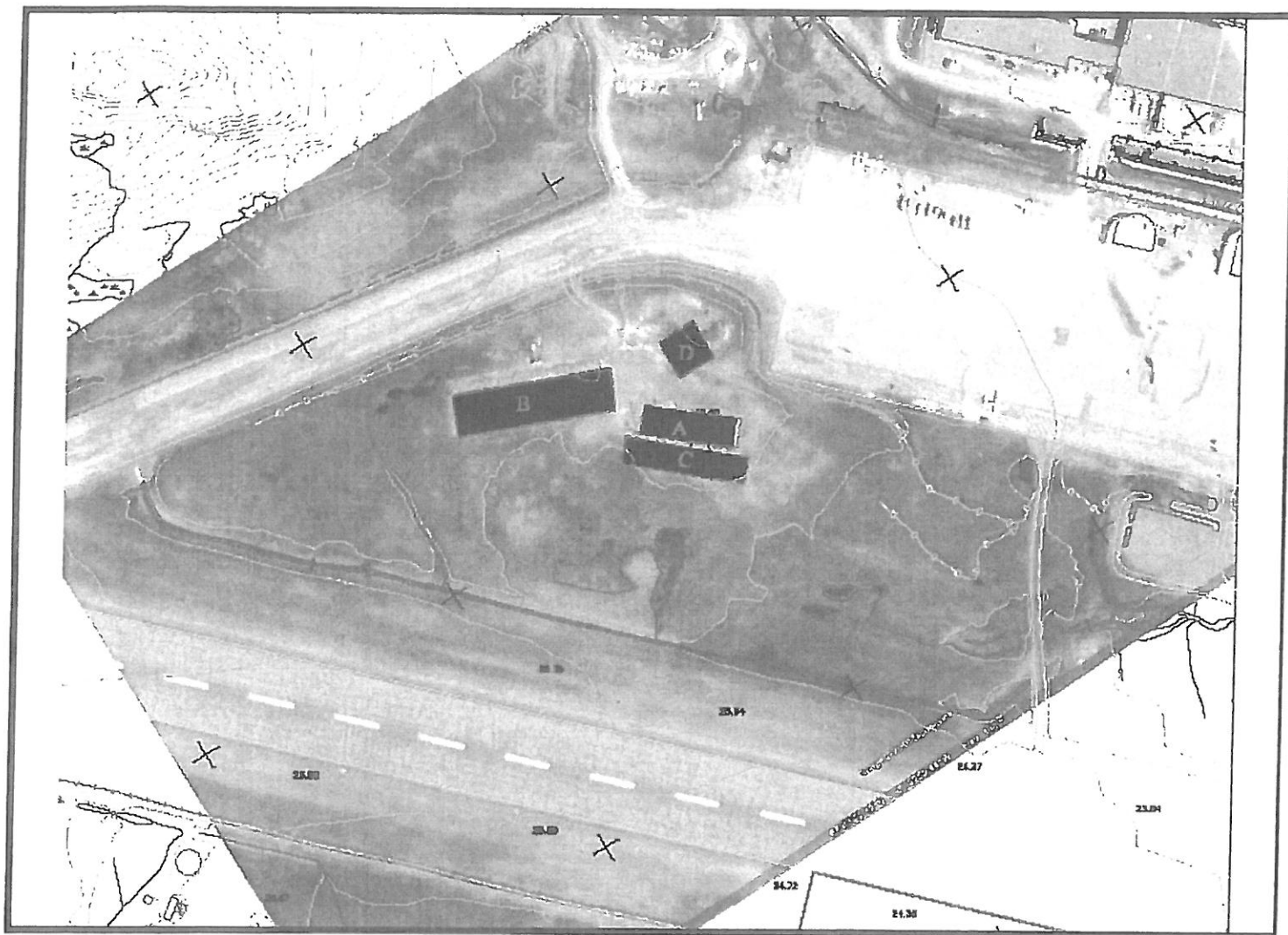


Figure 2: Location of LTU at Iqaluit Airport, Nunavut Scale 1:2000



Note: LTU A and B are historic to be decommissioned. LTU C and D constructed in 2006 under NWB license # 1BR-LTU1013

