

General Water Licence
Application Form Without
Sections 21-22

-

*IIAIP – Iqaluit International Airport Improvement
Project*

August 15th, 2014

FILES ATTACHED TO DOCUMENTS:

- 1) 2014-07-02_Expert_Opinion_Chromium
- 2) Financial Statement Sintra Inc. 31 December 2013
- 3) PHASE III ADDENDUM
- 4) PHASE III ESA Final Report 2014-07-01
- 5) Pre-Existing Environmental Contamination Assessment and Mitigation Plan
- 6) Pre-Existing Environmental Contamination Management Plan
- 7) REQUEST FOR EXEMPTION
- 8) Soil and Groundwater Management Plan
- 9) Executive Summary Inuktitut
- 10) Executive Summary English
- 11) Tier 3 Risk-Based Approach Criteria
- 12) Financial Statement Bouygues Building Canada Inc. 2013



P.O. Box 119
GJOA HAVEN, NU X0B 1J0
TEL: (867) 360-6338
FAX: (867) 360-6369
NUNAVUT

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NUNAVUT WATER BOARD
NUNAVUT IMALIRIYIN KATIMAYIT
OFFICE DES EAUX DU
NUNAVUT

GENERAL WATER LICENCE APPLICATION FORM

LICENCE NO: (for NWB use only)	
1. APPLICANT (PROPOSED LICENSEE) CONTACT INFORMATION Bouygues-Sintra Joint-Venture 4984, Place de la Savane Montréal, Qc H4P 2M9 Phone: 514 341-5331 Fax: 514 341-3915 E-mail: c.matha@bouygues-construction.com	2. APPLICANT REPRESENTATIVE CONTACT INFORMATION Michel Boulianne 4984 Place de la Savane Montréal, Qc, H2P 4M9 Phone: 514.341.5331 Fax: 514.341.3915 E-mail: mboulianne@sintra.ca (Authorization Letter, Appendix-B)
3. NAME OF PROJECT “Iqaluit International Airport Improvement Project” (IIAIP)	
4. LOCATION OF UNDERTAKING Project Extents NW: Latitude: (63° 45’ 57.1” N) Longitude: (68° 34’ 44.6” W); UTM 19 V 520761 7070993 NE: Latitude: (63° 45’ 56.5” N) Longitude: (68° 31’ 57.8” W); UTM 19 V 522299 7070184 SE: Latitude: (63° 45’ 30.6” N) Longitude: (68° 32’ 52.8” W); UTM 19 V 523061 7069132 SW: Latitude: (63° 45’ 14.8” N) Longitude: (68° 33’ 11.3” W); UTM 19 V 522049 7069692	
5. MAP Please refer to the topographical (Region of Iqaluit 1:50 000) and the general map of the IIAIP project in Appendix-C.	
6. NATURE OF INTEREST IN THE LAND Sub-surface N/A Surface Commissioner’s Land Use Authorization Date (expected date) of issuance: September 10th, 2013 Date of expiry: December 31st, 2047 Name of entity holding authorizations: Government of Nunavut	

7. NUNAVUT PLANNING COMMISSION (NPC) DETERMINATION

The project proposal is located outside the boundaries of the two approved land use plans currently administered by the NPC.

Is a land use plan conformity determination required?

No, we have written confirmation from the NPC that a land use plan conformity review is not required. (Appendix-D)

8. NUNAVUT IMPACT REVIEW BOARD (NIRB) DETERMINATION

Is an Article 12 Part 4 screening determination required?

Yes

No ☒

A written confirmation from NIRB states that a screening is not required (Appendix-E).

9. DESCRIPTION OF UNDERTAKING

The proposed undertaking is to use the contaminated soils as fill material in an area that will be covered with an available permanent structure such as 1.00 meter of gravel or clean soil, or a layer of asphalt as specified in the Pre-Existing Contamination Management Plan (PECMP) prepared by CRA. Also, part of Chromium impacted-soil could be placed under a building structure planned to be constructed during the Iqaluit International Airport Improvement Project (no document reference for this method). The plans and drawings of remediation undertakings are found in the PECMP and the EPD submissions.

- 1) 2014-07-02_Expert_Opinion_Chromium
- 5) Pre-Existing Environmental Contamination Assessment and Mitigation Plan
- 6) Pre-Existing Environmental Contamination Management Plan
- 8) Soil and Groundwater Management Plan
- 11) Tier 3 Risk-Based Approach Criteria

10. OPTIONS

An alternative is also proposed in the following documents where all contamination is to be placed in a containment cell. The plans and drawings of remediation alternatives are found in the PECMP section 6 and the EPD submission.

- 1) 2014-07-02_Expert_Opinion_Chromium
- 5) Pre-Existing Environmental Contamination Assessment and Mitigation Plan
- 6) Pre-Existing Environmental Contamination Management Plan
- 8) Soil and Groundwater Management Plan
- 11) Tier 3 Risk-Based Approach Criteria

11. CLASSIFICATION OF PRIMARY UNDERTAKING

- | | |
|---|--|
| <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):
Airport Site Remediation |

Indicate which Supplemental Information Guidelines (SIG) is applicable to your application.

☒ N/A – Contaminated soils include Chromium, Arsenic and PHCs. The full study in included in the PECAMP, PECMP and the PHASE III study:

- 3) *PHASE III ADDENDUM*
4) *PHASE III ESA Final Report 2014-07-01*
5) *Pre-Existing Environmental Contamination Assessment and Mitigation Plan*
6) *Pre-Existing Environmental Contamination Management Plan*

12. WATER USE

- | | |
|---|---|
| <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 |
| <input checked="" type="checkbox"/> Other: No Water Use | |

13. QUANTITY AND QUALITY OF WATER INVOLVED

Name of water source(s) (show location(s) on map):

N/A _____

Describe the quality of the water source(s) and the available capacity: _____

Provide the overall estimated quantity of water to be used: **None** _____ m3/day

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

None _____

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

None _____

Describe the method of extraction(s): **N/A** _____

Estimated quantity(s) of water returned to source(s) **None** _____ m3/day

Describe the quality of water(s) returned to source(s): **N/A** _____

14. WASTE

- | | |
|--|--|
| <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 checked="" type="checkbox"/> Contaminated soil and/or water |
| <input type="checkbox"/> Animal Waste | |
| <input type="checkbox"/> Other (describe): _____ | |

15. QUANTITY AND QUALITY OF WASTE INVOLVED

Type of Waste	Composition	Total Quantity (M3)	Treatment Method	Disposal Method
PHC (Land-Treatment Units and TP24 from PECMP)	PHC	4,950*	N/A	Tier 3 Risk-based Approach
Arsenic	Arsenic	258*	N/A	Tier 3 Risk-based Approach
Chromium	Total Chromium	7,214* (Future Taxiway G & Apron 1 Expansion) 16,000 (Future ATB and CSB Building Area)	N/A	Tier 3 Risk-based Approach

*To be updated once the voluntary abatement has been completed.

16. OTHER AUTHORIZATIONS

Authorization: Development Permit
Administering Agency: City of Iqaluit
Project Activity: Iqaluit International Airport Improvement Project
Date of issuance: June 20th, 2014
Date of expiry: none

Authorization: Tier 3 Risk-based approach
Administering Agency: Environmental Protection Division/ Government of Nunavut
Project Activity: Land Treatment Unit (PHC), Arsenic and Chromium impacted soil Containment
Date of issuance: June 21st, 2014 and July 3rd 2014 (Chromium)
Date of expiry: none

17. PREDICTED ENVIRONMENTAL IMPACTS OF UNDERTAKING AND PROPOSED

MITIGATION MEASURES

The impacts on the environment were considered in a risk-based concentration approach. This method has been chosen to remediate soil contaminations and is further explained in 3 documents inscribed below. The mitigations proposal for this project have been presented and accepted by the Environmental Protection Department (EPD) of the Department of Environment. Well monitoring will be installed to ensure that no contamination migrates out of the site also described in the following documents.

- 1) 2014-07-02_Expert_Opinion_Chromium
- 5) Pre-Existing Environmental Contamination Assessment and Mitigation Plan
- 6) Pre-Existing Environmental Contamination Management Plan
- 8) Soil and Groundwater Management Plan
- 11) Tier 3 Risk-Based Approach Criteria

18. WATER RIGHTS OF EXISTING AND OTHER USERS OF WATER

N/A

19. INUIT WATER RIGHTS

Water will not flow through Inuit Owned Land (Inuit Owned Land map, Appendix F)

22. FINANCIAL INFORMATION

The list of the officers of the company, the copy of the Certificate of Incorporation or evidence of registration of the company name is referred in Appendix-A

Two audited financial statements are attached

- 2) Financial Statement Sintra Inc. 31 December 2013
- 12) Financial Statement Bouygues Building Canada Inc. 2013

The remediation will be completed under contract with our client, Government of Nunavut

23. STUDIES UNDERTAKEN TO DATE

- 1) 2014-07-02_Expert_Opinion_Chromium
- 4) PHASE III ADDENDUM
- 5) PHASE III ESA Final Report 2014-07-01
- 6) Pre-Existing Environmental Contamination Assessment and Mitigation Plan
- 7) Pre-Existing Environmental Contamination Management Plan

24. PROPOSED TIME SCHEDULE

Construction

Proposed Start Date: July, 2014

Proposed Completion Date: December 2017

Operation

Proposed Start Date: -

Proposed Completion Date: -

Closure

Proposed Start Date: -

Proposed Completion Date: -

Post - Closure

Proposed Start Date: -

Proposed Completion Date: -

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): 4 years

Proposed Date of Issuance: August, 2014

Proposed Expiry Date: December , 2017

26. ANNUAL REPORTING

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

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

Yes✓ No If no, date expected _____

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

Yes✓ No If no, date expected _____

Completed General Water Licence Application form

Yes✓ No If no, date expected _____

Information addressing Supplemental Information Guideline (SIG) , where applicable

Yes No If no, date expected _____

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✓ (post) No If no, date expected: _____

Water Use fee of \$30.00 CDN (Payee Receiver General for Canada)

Yes No If no, date expected : N/A

28. SIGNATURE



Michel Boulianne M. Sc. ABQ #3598
Environmental Advisor, Sintra
August 15th, 2014

For Nunavut Water Board office use only

APPLICATION FEE Amount: \$ _____ Receipt No.: _____

WATER USE DEPOSIT Amount: \$ _____ Receipt No.: _____

APPENDIX-B - Authorization Letter



Nunavut Water Board Licensing Process

August 18th, 2014

Nunavut Water Board
P.O. Box 119
Gjoa Haven, Nunavut
X0B 1J0
Phone: (867) 360-6338
Fax: (867) 360-6369

Object: Authorization Letter

To whom it may concern,

I, Celine Matha, stand as D&B JV Director who represents the company that applies for the water license for the Iqaluit International Airport Improvement Projects.

We hereby authorize Michel Boulianne, our environmental advisor, to be our representative for the licensing process with the Nunavut Water Board on the Iqaluit International Airport Improvement Project.

Hoping everything is to your satisfaction.

Best regards,

D&B JV Director,

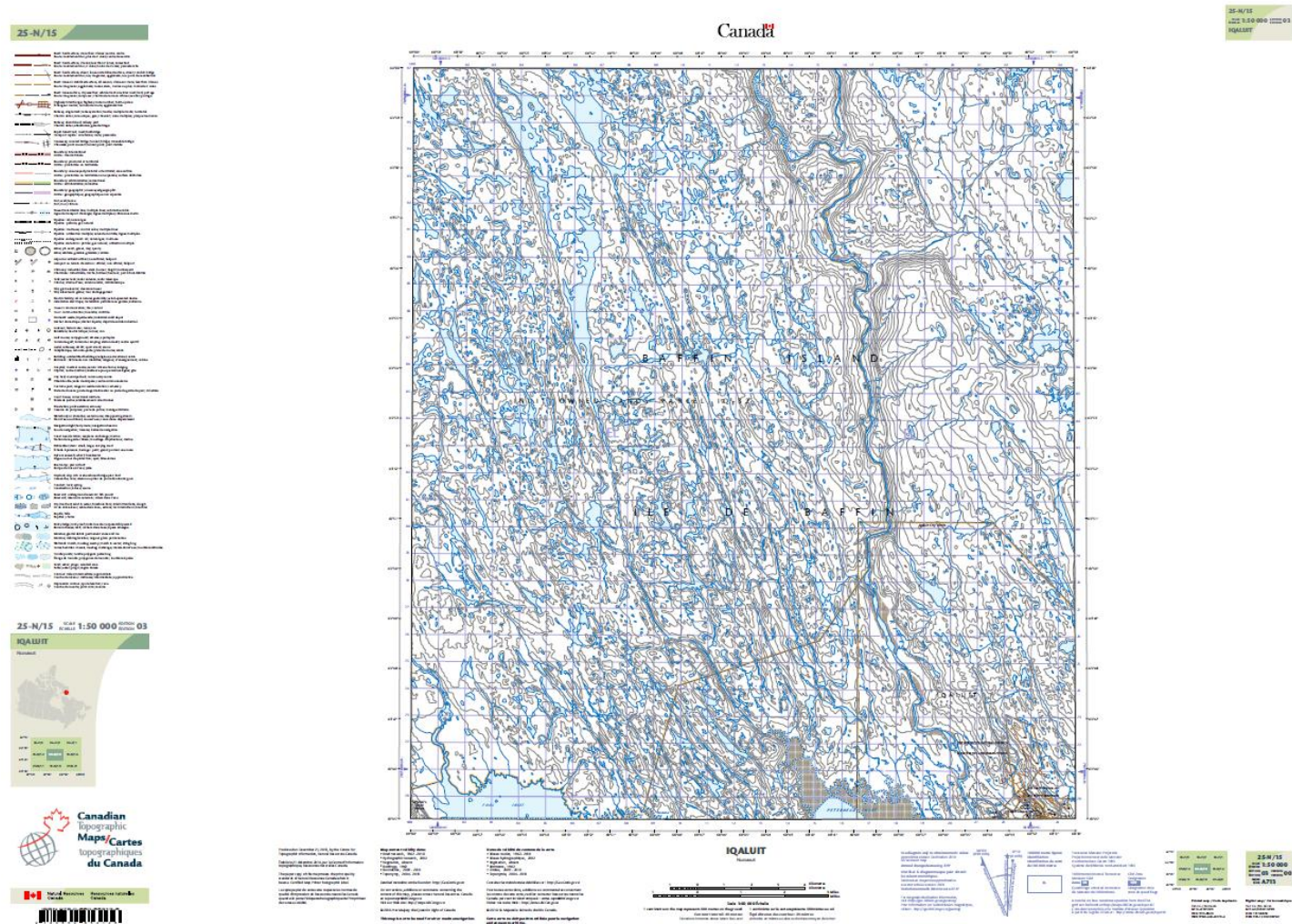
Celine Matha
1500 West Georgia Street,
Suite 200, Vancouver, BC,
V6G 2Z6
Phone: 604.688.9255
Fax: 604.683.0783

BOUYGUES SINTRA JOINT VENTURE

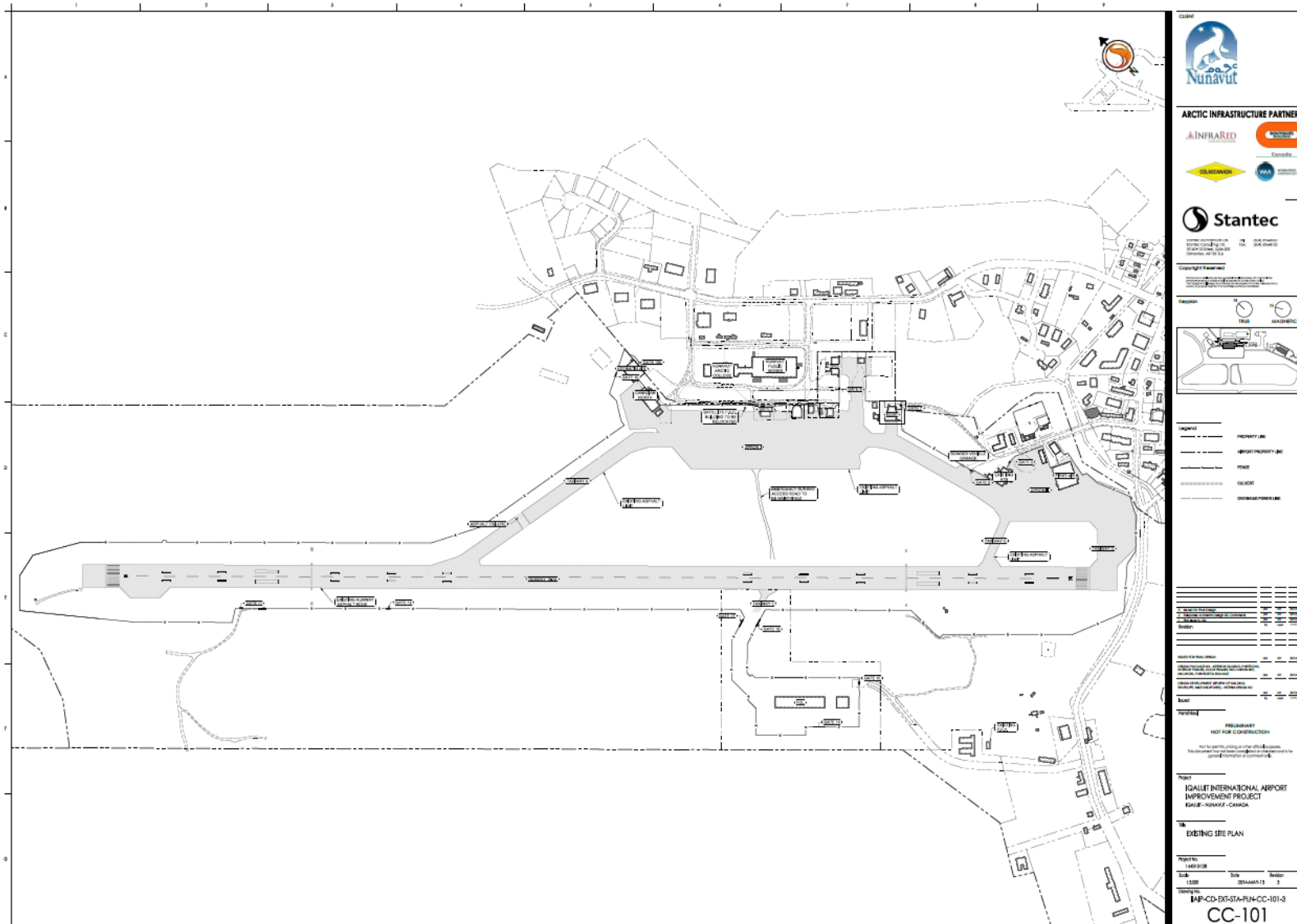
4984, place de la Savane, Montréal (Québec) H4P 2M9
Téléphone : 514 341-5331 • Télécopieur : 514 341-3915

http://publications.gc.ca/collections/collection_2011/rncan-nrcan/M116-2-025N15.pdf

http://publications.gc.ca/collections/collection_2011/rncan-nrcan/M116-2-025N15.pdf



APPENDIX-C - Topographical and General Map



APPENDIX-D - Nunavut Planning Commission (NPC) Determination

Michel Boulianne

De: Christopher Tickner <ctickner@nunavut.ca>
Envoyé: 19 juin 2014 15:39
À: Michel Boulianne
Cc: Brian Aglukark
Objet: RE: Approved Land Use Plan

Good afternoon,

Thank you for your email.

The Nunavut Planning Commission (NPC) has reviewed the information provided below and has determined that the project proposal as described is located outside the boundaries of the two approved land use plans currently administered by the NPC.

No further review is required by the NPC at this time.

Please ensure that any change in scope of the proposed project is forwarded to the NPC so as a determination can be made as to whether a conformity review is required.

Please contact me should you have any questions.

Sincerely,

Christopher Tickner MCIP, RPP
Senior Planner
Nunavut Planning Commission
P.O. Box 2101 Cambridge Bay, NU X0B 0C0
Phone: (867) 983-4634
Fax: (867) 983-4626
Website: www.nunavut.ca

From: Michel Boulianne [<mailto:mboulianne@sintra.ca>]
Sent: June-19-14 12:06 PM
To: Christopher Tickner
Subject: Approved Land Use Plan

Good day,

Our company is part of the joint-venture for the Iqaluit International Airport Improvement Project and we were wanting to confirm with the NPC if our project is located in a region with an approved land use plan.

You will find here below a general plan of the project and its coordinates. We have other detailed plan if you require any.

63.754716,-68.551941

APPENDIX-D - Nunavut Planning Commission (NPC) Determination



Thank you and my best regards,

Michel

sintra

Michel Boulianne, M. Sc
Conseiller en environnement

4984 place de la Savane
Montréal (Québec)
H4P 2M9

T : 514 341-5331



Avant d'imprimer, pensez à l'environnement.

APPENDIX-E - Nunavut Impact Review Board (NIRB) Determination



NIRB File No.: EX150

May 31, 2012

Paul Mulak
Director, Program Management Office
Community & Government Services
Government of Nunavut
P.O. Box 1000
Station 620 Government of Nunavut
Iqaluit, NU X0A 0H0

Sent via Email: pmulak@gov.nu.ca

Re: Application exempt from Screening pursuant to NLCA Schedule 12-1: Government of Nunavut's "Iqaluit International Airport Improvement" project proposal

Dear Mr. Mulak:

On April 20, 2012 the Nunavut Impact Review Board (NIRB) received an application from Government of Nunavut – Community & Government Services (GN-CGS) for the Government of Nunavut's "Iqaluit International Airport Improvement" project proposal. Please be advised that this project proposal is exempt from screening pursuant to item 3 of Schedule 12-1 of the Nunavut Land Claims Agreement (NLCA), *Types of Project Proposals Exempt from Screening*:

NLCA Schedule 12-1(3):

"All construction, operation and maintenance of all buildings and services within an established municipality, except for bulk storage of fuel, power generations with nuclear fuels, or hydro power and any industrial activity."

The Iqaluit International Airport Improvement project does not meet the NIRB and GN-CGS agreed upon definition of an industrial activity which requires screening as set out in the enclosed August 23, 2007 correspondence. As indicated above, this project is therefore exempt from NIRB screening pursuant to NLCA Schedule 12-1(3).

As this project proposal is exempt from the requirement for Screening by NIRB, authorizations associated with this proposal may be processed. If this application is associated with a project proposal which has previously been screened by the NIRB, the NIRB's Screening Decision Report may contain recommendations which are relevant to your organization. Screening Decision Reports can be accessed online from NIRB's public registry using the following link: <http://ftp.nirb.ca/01-SCREENINGS/COMPLETED%20SCREENINGS/>

APPENDIX-E - Nunavut Impact Review Board (NIRB) Determination

If you have any questions or require additional clarification, please contact the undersigned directly at tarko@nirb.ca or (867) 983-4611.

Sincerely,



Tara Arko
Technical Advisor
Nunavut Impact Review Board

cc: Fred Fast, Government of Nunavut – Airports
Bernhard Schropp, GENIVAR
John Hawkins, Government of Nunavut – Economic Development & Transportation

[illegible]