

Information Technology for Inuit EIA Participation

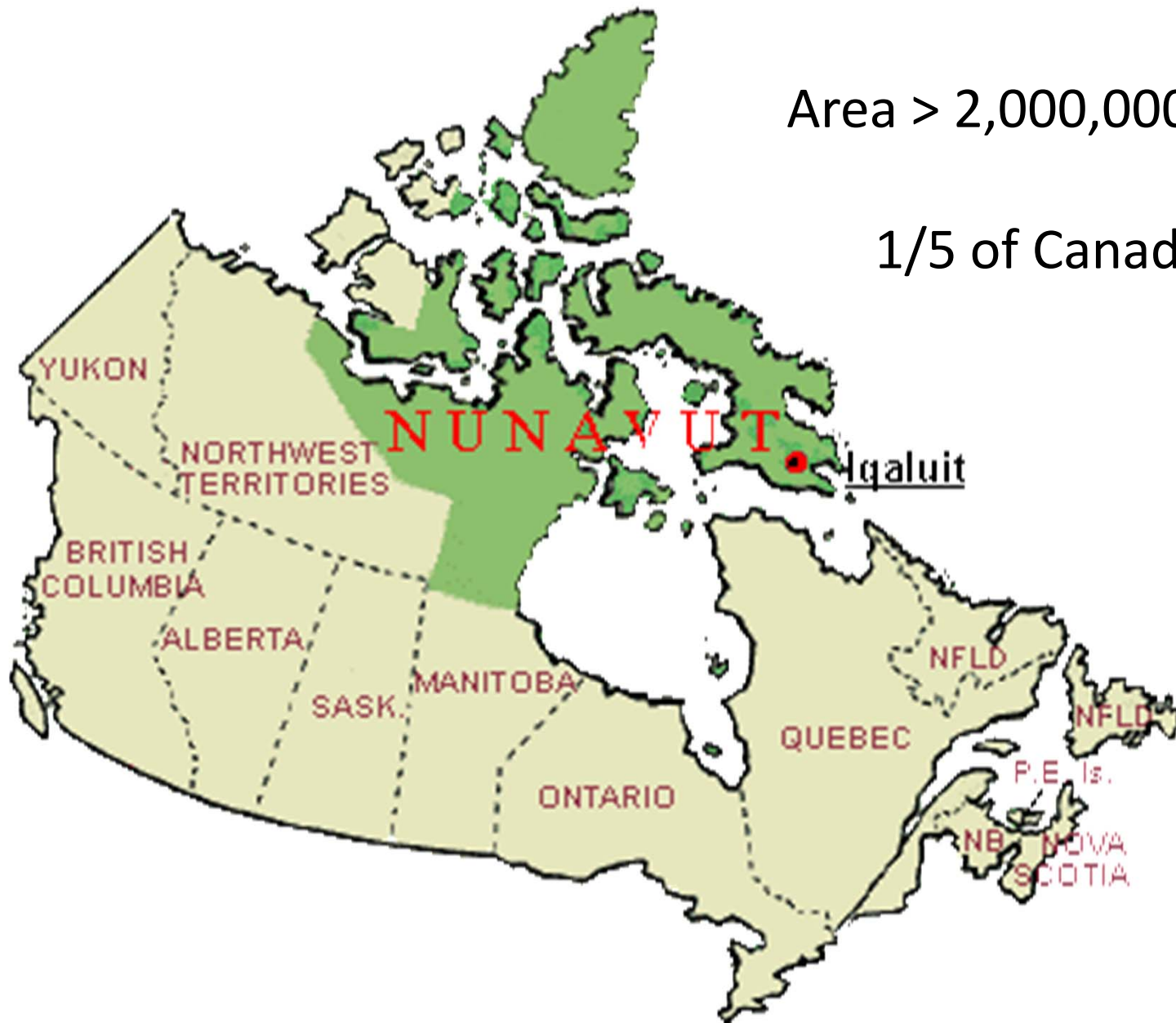


IAIA 2015: Impact Assessment in the Digital Era
Firenze, IT, April 21, 2015

Authors: Barry, R. W.; Blazevic, V.; Hanson Main, A.; and Tatarelli, C.

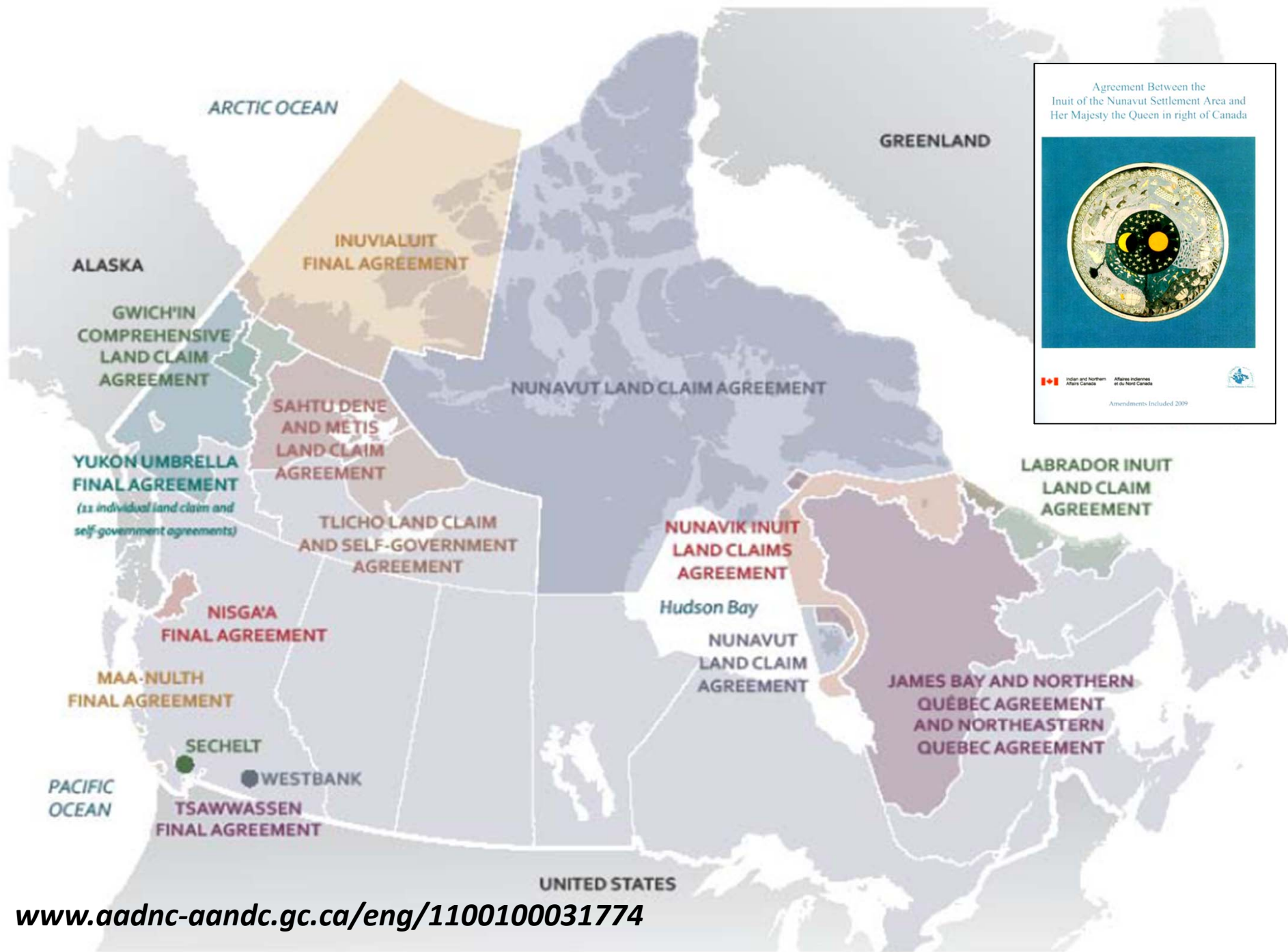
Area > 2,000,000 km²

1/5 of Canada





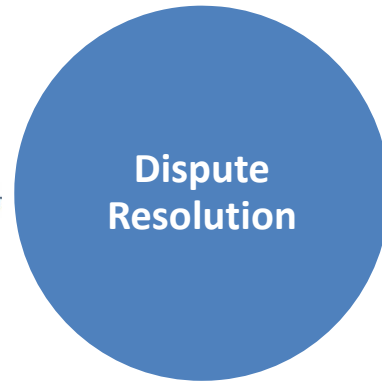
- Population \approx 36,700
 - > 80% Inuit
- 25 communities
 - Air access only
- 4 official languages:
 - English
 - French
 - Inuktitut
 - Inuinnaqtun
- Limited internet bandwidth availability



www.aadnc-aandc.gc.ca/eng/1100100031774



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 NUNAVUT SURFACE RIGHTS TRIBUNAL
 KANGGANIITONIK ANGGIKTITAJUTIT
 LE TRIBUNAL DES DROITS DE SURFACE DU NUNAVUT



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 Nunavunmi Parnaiyit
 Nunavut Planning Commissior
 Commission d'Aménagement



Nunavut Regulatory System

- Development proposals must satisfy the requirements of:
 - Land use planning
 - Environmental Impact Assessment
 - Water and Land Use Licensing



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Nunavunmi Parnaiyiit
Nunavut Planning Commission
Commission d'Aménagement du Nunavut



NIRB Mandate

- Screen project proposals to determine whether or not a review is required
- Gauge and define the extent of regional impacts
- Review ecosystemic and socio-economic impacts of project proposals
- Determine whether project proposals should proceed, and if so, under what terms and conditions
- Monitor projects that have been approved to proceed



- Nunavut Settlement Area & Outer Land Fast Ice Zone
- Transboundary Impacts

Nunavut = 'Our Land'

- Nunavut has a modern, constitutionally-protected environmental impact assessment process
- Public consultation, oral traditions, traditional knowledge are key elements of Nunavut process
- Transparency and accountability are also key elements of Nunavut process
 - all documents are posted online in a public registry



Out with the Old...

ftp.nirb.ca - /

Thursday, February 26, 2015 10:13 AM	<dir> 01-SCREENINGS
Wednesday, January 09, 2013 12:49 PM	<dir> 02-REVIEWS
Thursday, January 29, 2015 12:55 PM	<dir> 03-MONITORING
Friday, April 05, 2013 5:00 PM	<dir> 04-GUIDES
Wednesday, April 23, 2014 2:40 PM	<dir> 05-FORMS
Wednesday, September 22, 2010 2:14 PM	<dir> 06-RULES
Tuesday, October 28, 2014 9:08 AM	<dir> 07-GENERAL
Wednesday, November 26, 2014 11:44 AM	<dir> 08-STRATEGIC PLAN
Friday, April 17, 2015 4:37 PM	<dir> 09-ADMINISTRATION
Tuesday, January 20, 2015 10:41 AM	<dir> 10-NUNAVUT MARINE COUNCIL
Thursday, September 23, 2010 2:41 PM	<dir> aspnet client

ftp.nirb.ca - /02-REVIEWS/ACTIVE REVIEWS/09MN003-AREVA KIGGAVIK/2-REVIEW/

[\[To Parent Directory\]](#)

Thursday, September 16, 2010 5:04 PM	<dir> 01-SCREENING DECISION
Monday, March 02, 2015 11:35 AM	<dir> 02-GENERAL CORRESPONDENCE
Thursday, September 16, 2010 5:05 PM	<dir> 03-PARTICIPANT FUNDING
Thursday, September 16, 2010 5:07 PM	<dir> 04-SCOPING & GUIDELINES
Thursday, November 14, 2013 3:30 PM	<dir> 05-COMMUNITY CONSULTATIONS
Wednesday, December 21, 2011 4:02 PM	<dir> 06-DRAFT EIS & CONFORMITY REVIEW
Thursday, May 23, 2013 11:56 AM	<dir> 07-IRS & TECHNICAL REVIEW
Monday, November 25, 2013 1:48 PM	<dir> 08-TECH MEETING & PHC
Friday, October 03, 2014 10:23 AM	<dir> 09-FINAL EIS
Wednesday, November 12, 2014 11:42 AM	<dir> 10-FINAL HEARING
Thursday, September 16, 2010 5:07 PM	<dir> 11-FINAL HEARING DECISION
Thursday, September 16, 2010 5:07 PM	<dir> 12-PROJECT CERTIFICATE
Thursday, September 16, 2010 5:07 PM	<dir> 13-MONITORING
Thursday, September 23, 2010 10:42 AM	<dir> 14-MISC

The Challenge

- Improve public access and encourage participation in EIA through use of innovative technologies and tools
- Make it easier to find content of interest, track project assessments, comment online, track EA participation deadlines and receive notifications
- Respect language requirements and oral tradition
- Put more administrative power/responsibility into the hands of public and proponents

The Challenge

- Take advantage of satellite imagery, use tools like google map that people are already familiar with
- Make the site more visual, allow for map-based searches, process flowcharts, calendar features
- Provide increased access to resources to facilitate effective participation
- Address bandwidth limitations
- Increase linkages to other regulatory agencies

... and in with the New!

The screenshot displays the Nunavut Impact Review Board (NIRB) website. At the top, there is a search bar and navigation links for 'Log Out' and 'My Account'. The main navigation menu includes 'About NIRB', 'Process', 'Resources', 'Contact Us', and 'PUBLIC REGISTRY'. The page is titled 'Welcome to the NIRB Website & Public Registry' and features a blue background with white text. A 'New Documents' section lists several files with dates and titles, such as 'barracks.jpg', 'enterprise_drydock.jpg', 'Authorization.pdf', 'Project_application_comment_124536_', 'DETAILS_PART2.pdf', and 'Impacts_08_18.pdf'. A 'Calendar' section lists events like 'Website update test event', 'Board Meeting Board meeting in Toronto', 'Board Meeting Board meeting in Montreal', 'Conducting an internal worksho NIRB Internal Workshop #1', and 'Board Meeting Sed quia non numquam eius modi tempora Incid'. There are also sections for 'Careers', 'Media Gallery', 'How To Get Involved', and 'NIRB Annual Report'.

- New documents added to public registry are highlighted with quick links
- A new calendar feature assists with tracking important dates

Tracking Tools

[Home](#) » NIRB Events Calendar

NIRB Events Calendar

February 2015

Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
1	2	3	4	5	6	7
8	9	10	11	12	13	14

This Week | **This Month**

■ February 24 - Mining Project Searching for Resources Under the Tundra

2015-02-24

Commenting in progress start

Legend

- Board meeting
- NIRB important event
- Commenting period start
- Commenting period end
- NIRB Report Issued

Customized Accounts

Create Account

Create an Account

Fields marked * are mandatory.

I will be submitting a Project Proposal.

IMPORTANT:

Do not check the box unless you will be submitting a Project Proposal.

Salutation

Name *

Company

Phone Number *

Fax

Email *

Password

Confirm Password

Address *


City *

Territory / Province / State *

Postal Code *

Country *

Project Application Form



NUNAVUT IMPACT REVIEW BOARD 1.57

PROJECT APPLICATION #124537
Application status: Draft

APPLICANT PROJECT MAP ACTIVITIES AUTHORIZATIONS DETAILS MATERIAL USE WASTE

Add new map point by coordinates ?

Enter latitude and longitude in decimal degrees:

Lat: Lon:

Allowed values for Latitude: 54° to 84°, Longitude: -150° to 0°

Add new rectangular area by coordinates ?

Enter latitude and longitude of bottom left point:

Lat: Lon:

Enter latitude and longitude of top right point:

Lat: Lon:

Allowed values for Latitude: 54° to 84°, Longitude: -150° to 0°

Add geometry by freehand drawing on the map ?

Activate map tools to draw point, line or polygon:


Import map geometries from KML or Shapefile ?

Import from file (allowed formats are Google KML or ESRI Shapefile):

List of added project geometries ?

You must specify Activity Type and Description for each geometry.
Discuss the history of the site if it has been used for any project activities in the past.
Indicate if there are any known archaeological or paleontological historical sites in the area.

Id	Geometry	Location Name (not more than 50 characters)	
2416	polygon	sample geometry	X



Customized Accounts

My Account

My Projects Projects I follow My Profile

Name	Cesare Tatarelli	Address	1001 Lenoir
Company	Strata360	City	Montreal
Phone Number	5149373113	Territory / Province / State	Quebec
Fax		Postal Code	h4c2z6
Email	ctatarelli@gmail.com	Country	Canada
New Password			
Confirm			

[Update My Profile](#)

Notification Settings

These notification parameters are global. You will receive notifications for all projects that match your selected criteria.

Project Type

- | | | | |
|--------------------------------------|---|--|-------------------------------------|
| <input type="checkbox"/> Access | <input type="checkbox"/> Fuel | <input type="checkbox"/> National Park | <input type="checkbox"/> Road/Trail |
| <input type="checkbox"/> Access Road | <input type="checkbox"/> Ice Drilling | <input type="checkbox"/> Power Plant | <input type="checkbox"/> Space |
| <input type="checkbox"/> Camp | <input type="checkbox"/> Infrastructure | <input type="checkbox"/> Quarry | <input type="checkbox"/> Tourism |
| <input type="checkbox"/> Defence | <input type="checkbox"/> Lease | <input type="checkbox"/> Remediation | <input type="checkbox"/> Water |
| <input type="checkbox"/> Exploration | <input type="checkbox"/> Mine | <input type="checkbox"/> Research | <input type="checkbox"/> Other |

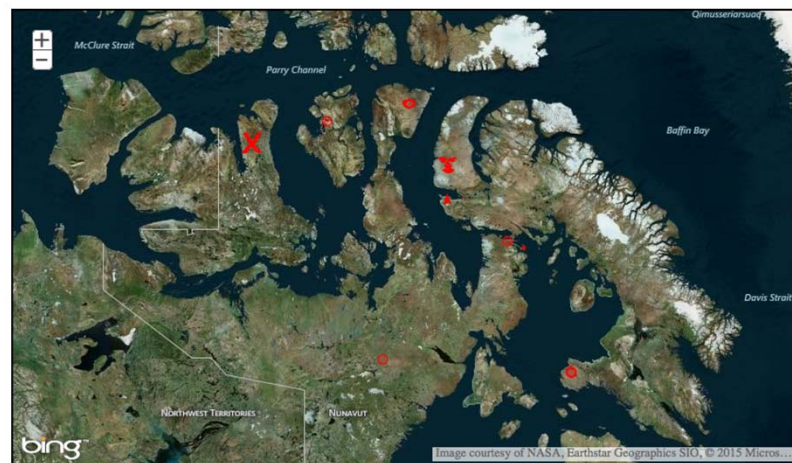
Region

- | |
|--|
| <input type="checkbox"/> Transboundary |
| <input type="checkbox"/> Kitikmeot |
| <input type="checkbox"/> Kivalliq |
| <input type="checkbox"/> North Baffin |
| <input type="checkbox"/> South Baffin |
- [Update My Profile](#)

My Account

My Projects Projects I follow My Profile

[Create New Project Proposal](#)



ACTIVE SCREENING

[15LL010] No Activity Test - Lease Project February 25 (124534)

Applicant: Strata360
Project Type: 8
Region: Transboundary
Last Modified: 2015-02-26
[VIEW APPLICATION](#)

Searchable Database

Search Public Registry

Keyword Search Search Projects Search Documents

Submit

Reset

Advanced Search

Project Location

- | | |
|--|---------------------------------------|
| <input type="checkbox"/> Transboundary | <input type="checkbox"/> North Baffin |
| <input type="checkbox"/> Kitikmeot | <input type="checkbox"/> South Baffin |
| <input type="checkbox"/> Kivalliq | |

Project Type

- | | |
|---|--|
| <input type="checkbox"/> Access | <input type="checkbox"/> National Park |
| <input type="checkbox"/> Access Road | <input type="checkbox"/> Power Plant |
| <input type="checkbox"/> Camp | <input type="checkbox"/> Quarry |
| <input type="checkbox"/> Defence | <input type="checkbox"/> Remediation |
| <input type="checkbox"/> Exploration | <input type="checkbox"/> Research |
| <input type="checkbox"/> Fuel | <input type="checkbox"/> Road/Trail |
| <input type="checkbox"/> Ice Drilling | <input type="checkbox"/> Space |
| <input type="checkbox"/> Infrastructure | <input type="checkbox"/> Tourism |
| <input type="checkbox"/> Lease | <input type="checkbox"/> Water |
| <input type="checkbox"/> Mine | <input type="checkbox"/> Other |

Assessment Status

- | | |
|--|---|
| <input type="checkbox"/> Pending | <input type="checkbox"/> Active Monitoring |
| <input type="checkbox"/> Exempt from Screening | <input type="checkbox"/> Completed Screening |
| <input type="checkbox"/> Active Screening | <input type="checkbox"/> Completed Review |
| <input type="checkbox"/> Active Review | <input type="checkbox"/> Completed Monitoring |

Submit

Reset

Map Search



Set Search Area

Searchable Database

Search Results: 120

Project Location

Kivalliq (118)
Transboundary (1)
North Baffin (1)

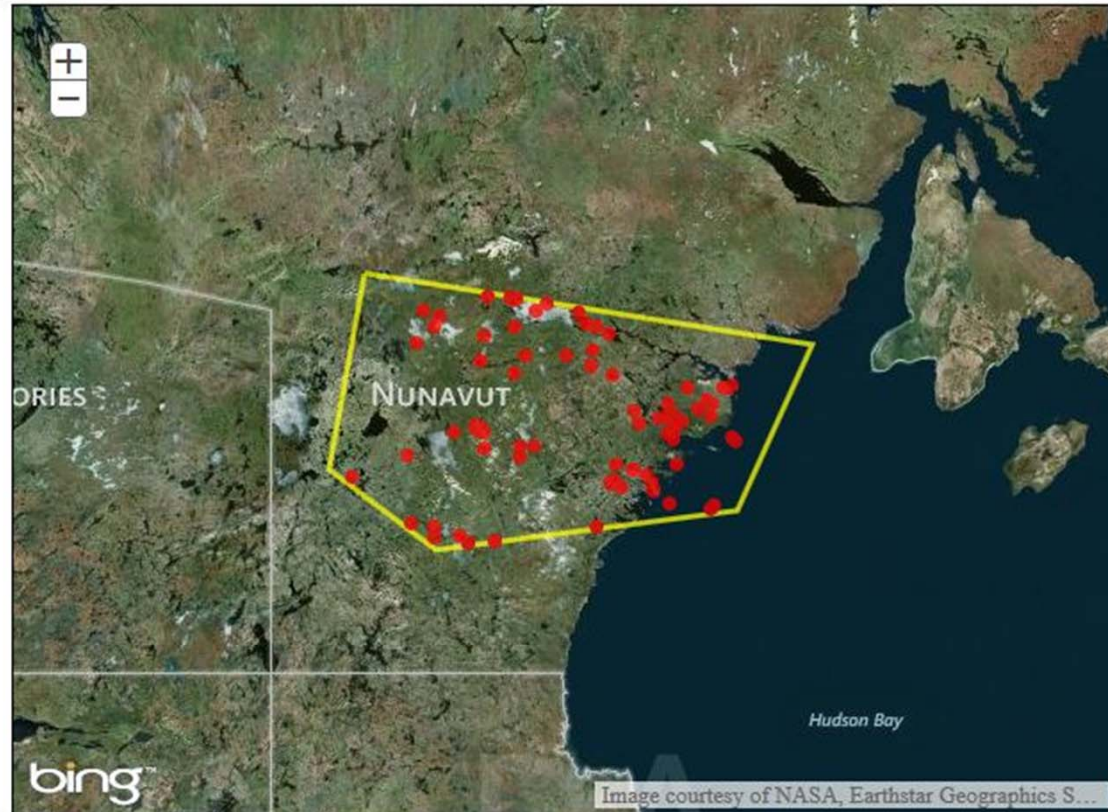
Project Type

Ice Drilling (1)
Lease (3)
Exploration (46)
Road/Trail (13)
Quarry (6)
Research (35)
Fuel (3)
Camp (3)
Infrastructure (4)
Other (2)
Access (3)
Remediation (1)

Assessment Status

Completed Screening (120)

[Search again](#)



124269 [97M01A007] - Four new fuel caches, new drill locations, Keewatin District

Applicant: Inco Ltd.

Project Type: Ice Drilling

Region(s): Kivalliq

Individual Assessment Pages

Project Dashboard

[Comment Form](#)[Follow this Project](#)[Contact NIRB](#)

NIRB File No 15MM004 (Application #124529):

STATUS: ACTIVE REVIEW / PROJECT TYPE: MINE

Summary

Documents

Notifications

Applicant

Strata360
Cesare Tatarelli
h4c2z6
tel: 5149373113 fax:
ctatarelli@gmail.com

[Download Project Application Form](#)

Assessment Steps

Pending
Screening
Review

Project Summary

Located in Cambridge Bay, Nunavut, the Nunavut Impact Review Board (NIRB) is Nunavut's environmental assessment agency, with responsibilities for assessing the potential impacts of proposed projects before any required permits, licences and approvals can be granted. The NIRB's mission is to protect and promote the well-being of the Environment and Nunavummiut through the impact assessment process.

Review Activity

Started application review	2015-02-24
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Authorizing Agencies

NWB: licence application
DFO: Researching mineral deposits



[Click to view images. \[1\]](#)

Looking Ahead

- The Canadian Arctic presents unique challenges for modern environmental impact assessment
- The increased functionality of the NIRB's new public registry is a large step forward into the digital age for our corner of the Arctic



Looking Ahead

- Future development under consideration includes:
 - Mapping tool for public comment submissions
 - Video clips from public meetings and hearings
 - Video public commenting tool
 - Considering what users tell us they want or need





Grazie!

Ryan Barry – Executive Director
Nunavut Impact Review Board

PO Box 1360

Cambridge Bay, NU

rbarry@nirb.ca