

Nunavut Water Board: Dealing with Cumulative Impacts



Nunavut Mining Symposium 2014
April 2014, Iqaluit
Damien Côté, Executive Director, NWB

Outline



1. Six (6) things we have
2. Three (3) things we do NOT have
3. Filling the Gap
4. Questions

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Six (6) things we have



1. Resource

As a country, Nunavut...

- Would be **the 14th largest in the World** in terms of landmass.
- Would rank **5th in the World**, in terms of freshwater surface area.

Rank	Country	Freshwater Surface Area
1 st	Canada	891,163 km ²
2 nd	Russia	720,500 km ²
3 rd	United States	470,131 km ²
4 th	India	314,070 km ²
5 th	Nunavut	157,077 km²
6 th	China	137,060 km ²

Six (6) things we have



1. Resource



Six (6) things we have



2. Growth

- Economic growth has clear impacts on demand for Water Licences in Nunavut.
- Water Licence required for any “use of water” or “deposit of waste”.

Year	Licence Applications		
	Type A	Type B	Total
2001 – 02	1	17	18
2002 – 03	1	29	30
2003 – 04	0	35	35
2004 – 05	2	38	40
2005 – 06	0	56	56
2006 – 07	3	48	51
2007 – 08	3	56	59
2008 – 09	3	77	80
2009 – 10	3	74	77
2010 – 11	5	62	67
2011 – 12	5	69	74
2012 – 13	4	79	86

Source: Nunavut Water Board.

Six (6) things we have



3. Water Management Areas

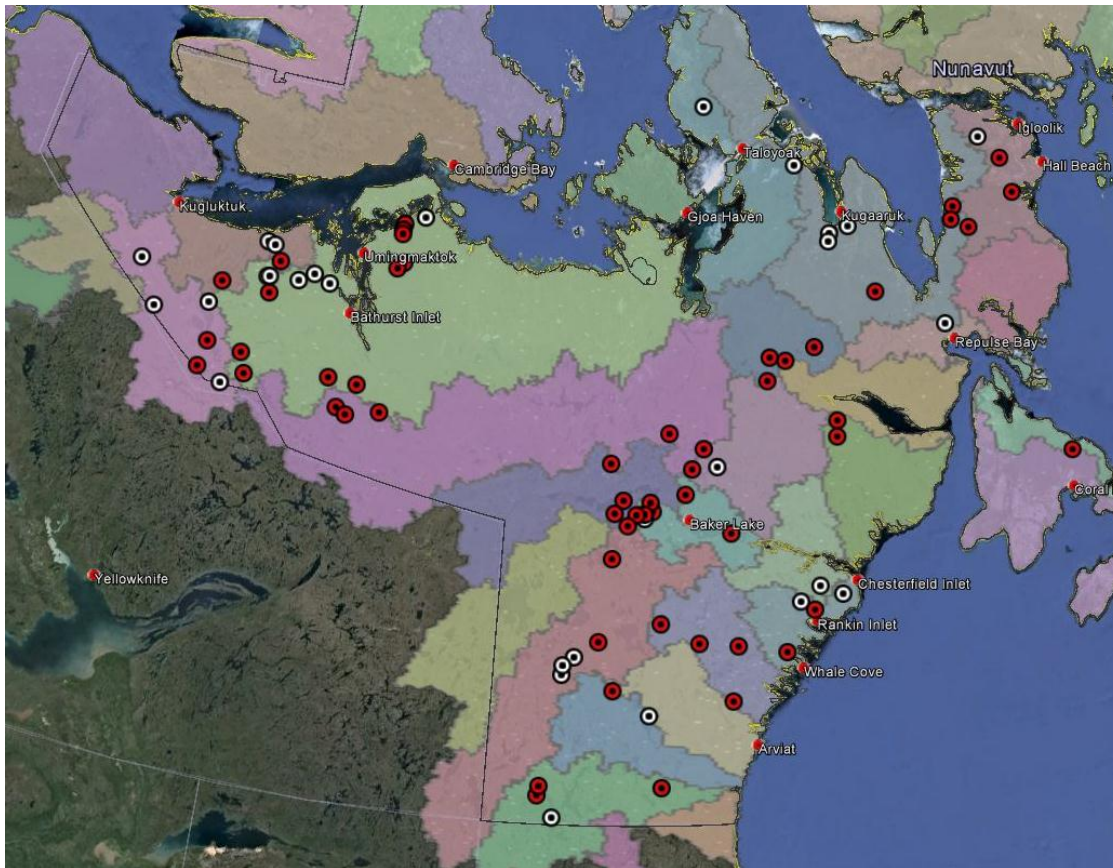


- 65 Water Management Areas from *Nunavut Water Regulations* (April 2013)

Six (6) things we have



4. Active & Expired Licence GeoData



Six (6) things we have



5. A precise licensing system (soon)

NUNAVUT WATER BOARD ENTERPRISE MANAGEMENT SYSTEM ver. 1.18

HOME APPLICATIONS LICENSES DOCUMENTS EVENTS CALENDAR MAP ADMINISTRATION

DRAFTS VIEWING LICENSE APPLICATION #62 NWB ID: [Pending] PROJECT: "Mary River" CLOSE

DESCRIPTION PROJECT MAP WATER USE WASTE AND IMPACTS STUDIES AND CONSULTATIONS SCHEDULE WORKFLOW LICENSE Comments

Layers Project Geometries Assessment Sessions Base Map View

Crossing watersheds:
Kingora, Gulf of Boothia

Drag a column header and drop it here to group by that column

Id	Activity	Description
+ 21	Industrial Wastewater facility	testng feature
+ 24	Explosives manufacturing and storage	Test 456
+ 31	Wastewater treatment facility	Test
+ 23	Dredging	Main Camp #2
- 32	Camp	Main Camp

Crossed Watershed(s):
Kingora

Six (6) things we have



5. A precise licensing system (soon)



NUNAVUT WATER BOARD

1.30

APPLICANT PROJECT MAP DESCRIPTION WATER USE WASTE & IMPACTS STUDIES & CONSULTATIONS SCHEDULE & LICENSE DECLARATION

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.

Id	Geometry Type	Activity Type	Geometry Description	Watersheds
147	point	Camp	King William Island	King William Island

Six (6) things we have



6. A feedback Loop (soon)



NUNAVUT WATER BOARD

NWB - Project Dashboard

GIANT MINE REMEDIATION DIRECTORATE, AANDC - GIANT MINE REMEDIATION PROJECT - EA0809-001 [2008]

[FOLLOW THIS PROJECT](#)

PROJECT SUMMARY MESSAGE CENTRE DOCUMENTS **REPORTING** WATER FEES DISCUSSIONS

Company Information
Address
Contact

Proponent on behalf of Company
Mr. Cesare Tatarelli
[Finest Pasta Ever Inc.](#)
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Suite 614
Montreal, QC
tel: 514-514-5144
fax: 514-514-5555
someone@adomain.com

Viewing file: Proponent / Company

Project Status

» NPC Pending

» NIRB Pending

» Technical Review

» Public Review

» Final Review

License Type: A

Date Issued: 2013-11-12

[View License Application](#)

Water Fees: cubic meters / per year

Report Summary

Last report submitted: XXXX-XX-XX

Next report due: XXXX-XX-XX

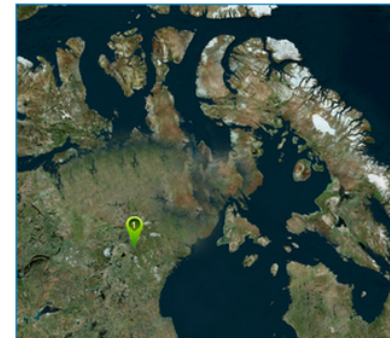
Project Summary

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed diam nonummy nibh euismod tincidunt ut laoreet dolore magna aliquam erat volutpat. Ut wisi enim ad minim veniam, quis nostrud exerci tation ullamcorper suscipit lobortis nisl ut aliquip ex ea commodo consequat. Duis autem vel eum iriure dolor in hendrerit in vulputate velit esse molestie consequat, vel illum dolore eu feugiat nulla facilisis at vero eros et accumsan et justo odio dapibus ac blandit

Document Summary

Latest Documents

Some document name here	Date
Some document name here	Date
Some document name here	Date
Some document name here	Date
Some document name here	Date



License Management

----> Drop-down

File History

Action	Date	Decision
Renewal	2013-11-12	Granted
Amendment	2112-10-10	Pending

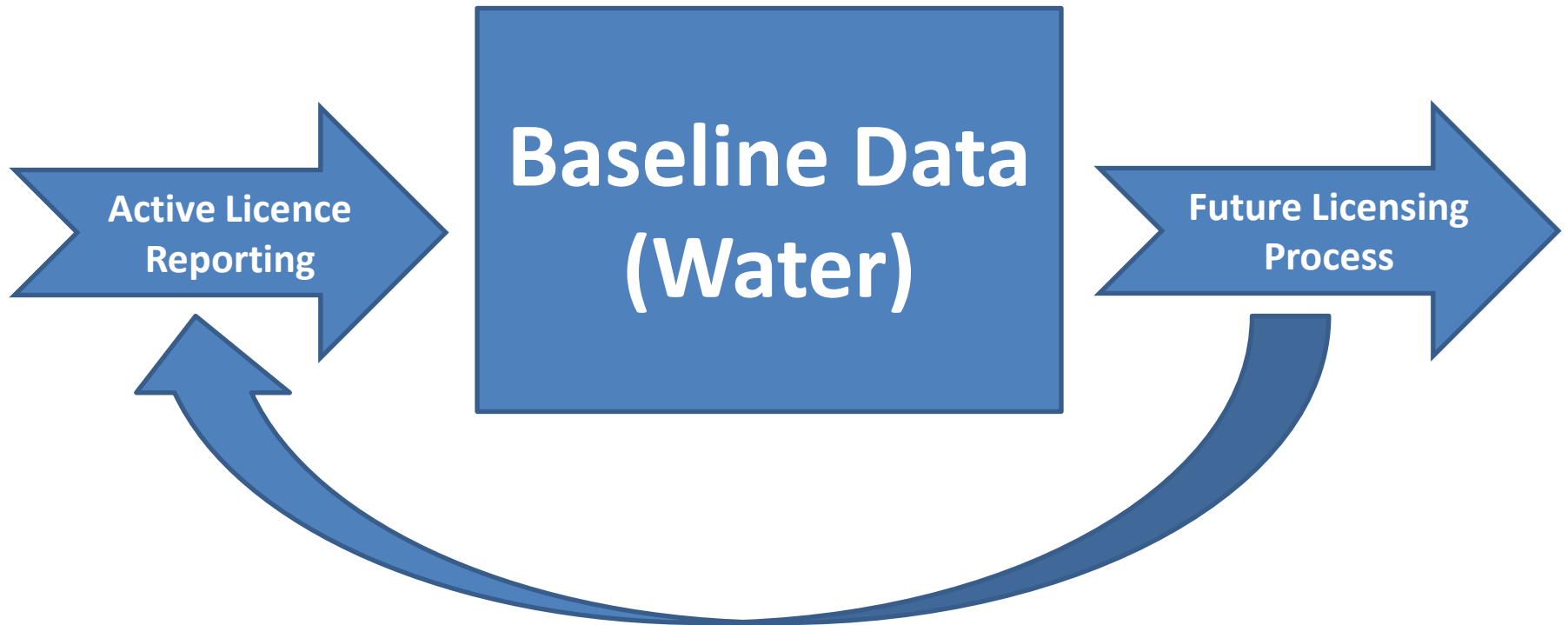
Resource Library

Resource #1
Resource #2
Resource #3
Resource #4
Resource #5

Six (6) things we have



6. A feedback Loop (soon)



Outline

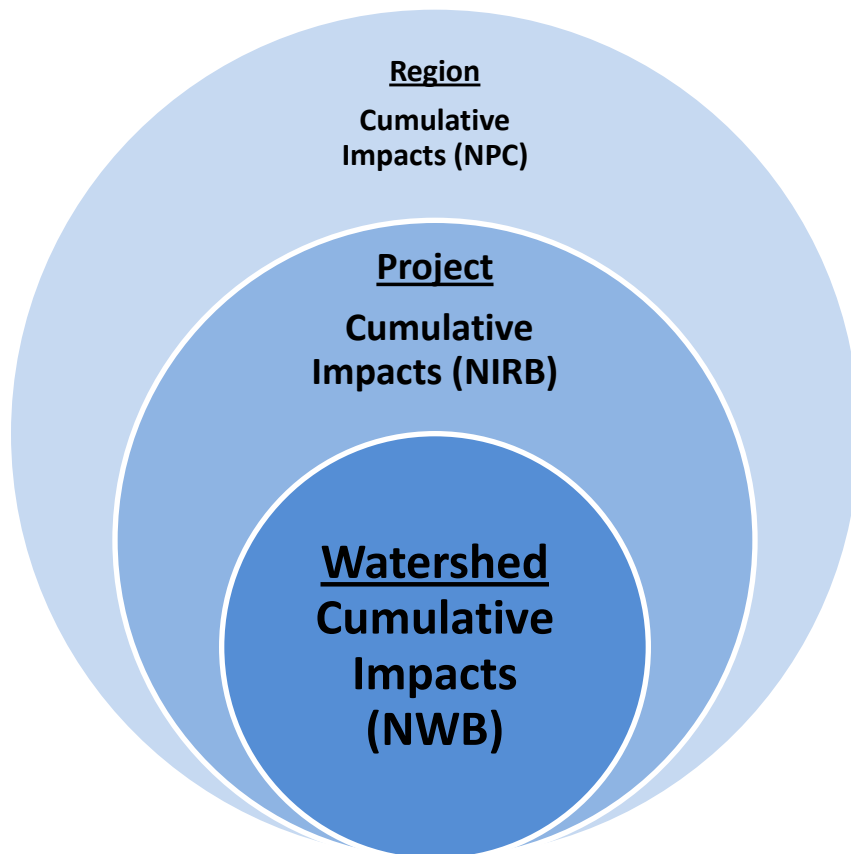


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Three (3) things we do NOT have



1. Functional Mechanism to assess Cumulative Impacts



- 3 level of assessments
- Common data
- Varying precision

Three (3) things we do NOT have



2. Abundant & Organized Quality Data

Data Sources (potential)

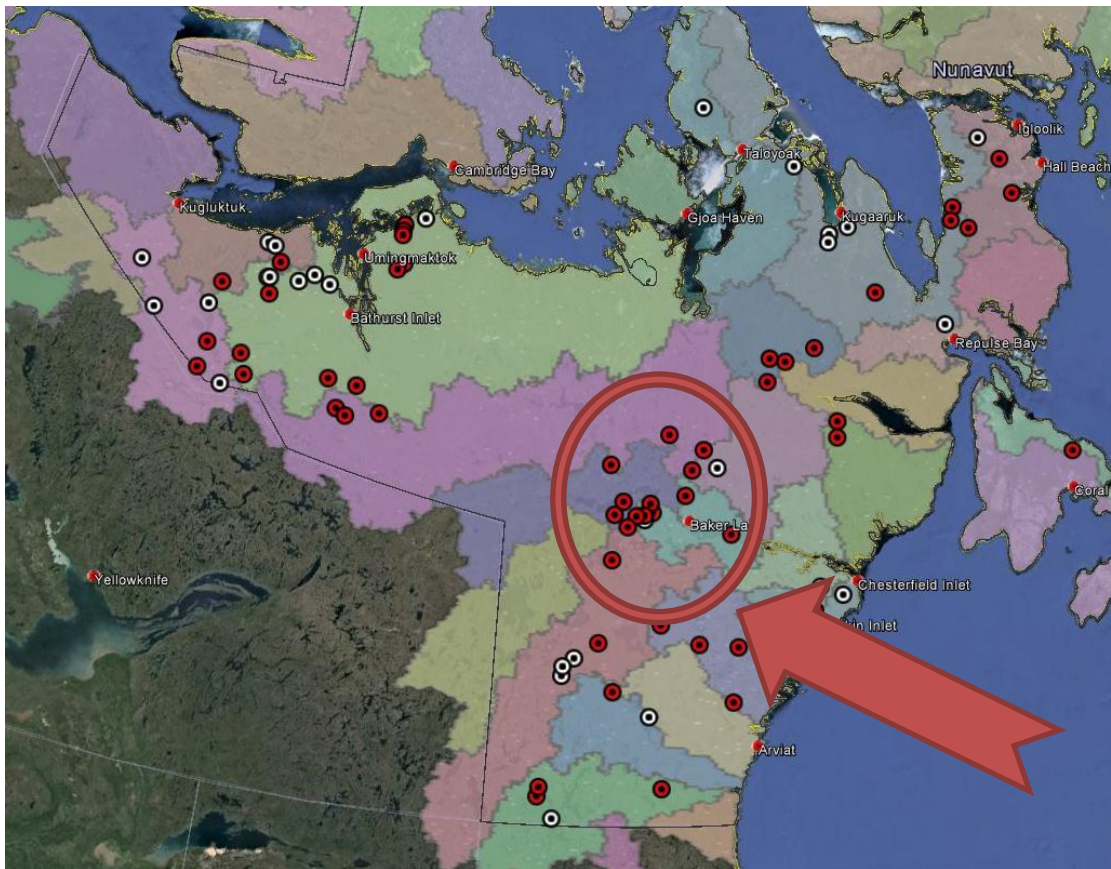
- Federal Government (AANDC, EC, NRCan, DFO, TC, etc.)
- *Inuit Qaujimagajatuqangit*
- Territorial Government (Environment, etc.)
- Designated Inuit Organizations (QIA, KivIA, KitIA, NTI)
- Institutions of Public Government (NWB, NIRB, NPC, NWMB, NSRT)
- Industry (Various)
- Academia (Universities, research networks, etc.)
- Other (NGMP, foundations, special interest, etc.)

Three (3) things we do NOT have



3. Water Management Policy

- What intensity can any watershed sustain?



Three (3) things we do NOT have



3. Water Management Policy

Policy Questions

- What balance to strike between preservation and development in each watershed?
 - What is each watershed's tolerance for marginal impact?
- How to balance conflicting traditional knowledge with scientific knowledge for a watershed?
- How to assess the value of a watershed?
- How to identify and evaluate transboundary impacts?

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Filling the Gap



1. Water Management Policy

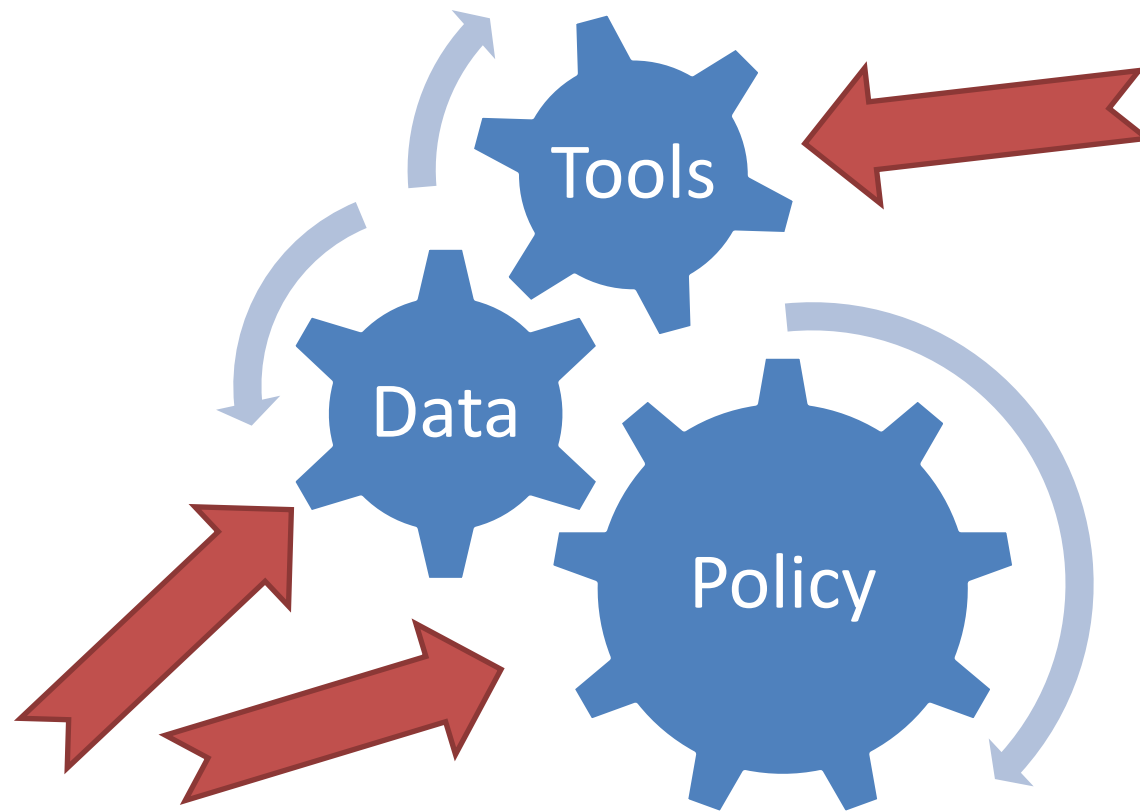
Article 13.2.1 of the *Nunavut Land Claims Agreement*

- the Nunavut Water Board “shall have responsibilities and powers over the regulation, use and **management of water in the Nunavut Settlement Area (...)**”.

Filling the Gap



2. Overview



Launching soon (2014)

In development

Questions



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