

Mackenzie Valley Environmental Impact Review Board

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Date:	November 10, 2003	Pages:	26	+	this page		
То:	Consolidated Goldwin Ventures,	Fax:		·			
	North American General						
	Resources Corp., and						
	New Shoshoni Ventures,						
		CC:	MVLWI	 В			
ubject:	Gartner Lee Ltd.'s Presentation for the Public Hearing (EA-03-002, EA-03-003, EA-03-004)						

NOTES:

Sherry

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Aims/Goals:

- Establish framework to evaluate projects in the Drybones Bay and Wool Bay area
- Established the framework and context for the MVEIRB to complete a cumulative effects assessment
- Establish the "state-of-the-environment"
- Establish the current land uses
- Evaluate how proposed projects will affect the cultural landscape and cultural resources on a sub-regional basis
- Find solutions/ tools effective in the Mackenzie Valley that allow for adequate evaluation of project impacts on the cultural landscape



- Management climate
 - Land claims unsettled
 - Competing land use interests
 - Single project focus for management legislation (i.e., MVRMA, TLA)
 - Government and communities
 have experienced in regional
 resource management (i.e.,
 caribou management boards,
 wildlife management boards)



- Approach to the work
 - Focused on the concerns raised (i.e., culture, society, and traditional land use)
 - Looked at the relationship between biodiversity, landscape and cultural diversity
 - Sought out available information no new primary research
 - Found out what has happened,
 what is happening and what will
 be happening on the land



- Cumulative impact models
 - Options for cumulative effects management applied in other jurisdictions (Axys 2000):
 - Land Use Focus: A Land Use Plan is implemented before any development is allowed in a region, and enforced while developments occur in a region.
 - **Resource Focus:** The effects on one or more species are directly managed.
 - **Project Focus:** Individual projects are assessed, but in a coordinated fashion that changes project requirements for each subsequent application.
 - Resource management focus taken in this study
 - Determined state-of-the-environment
 - Selected valued environmental components to reflect social, cultural or traditional land use



- Land use focus
 - A Land Use Plan documents the expectations of how residents want the land to be used (this approach has been used in other jurisdictions)
 - Essential for understanding significance of changes
 - Offers means to resolve conflicting expectations (i.e., Gwich'in Land Use Plan)
 - Usually requires a legislative basis for enforcement



- Resource focus
 - Cumulative effects study from the perspective of the valued environmental component(s)
 - Can take broader regional focus without an existing land use plan or resource management plan
 - Step up from a project focussed cumulative effects analysis



- Project focus
 - Basis for most cumulative effects analysis in Canada
 - Undertakes CEA work on a project-by-project basis and looks at the incremental changes that each project makes



Resources focus: the valued environmental components



- Valued environmental components
 - Bathurst caribou
 - Moose
 - Furbearers
 - Waterfowl
 - Fish
 - Plants medicinal, food, tools, shelter
 - Heritage resources
 - Spiritual resources landscape and place names
- VECs chosen on the basis of their ability to reflect change in landscape, traditional land use and cultural/spiritual values



What is the state-of-the-environment?



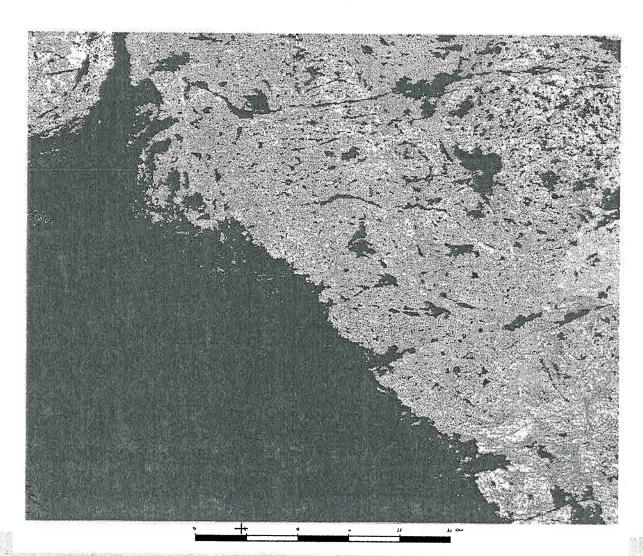
- What we found out
 - Physical landscape
 - Biological landscape
 - Cultural landscapes



- Physical landscape
 - Exposed bedrock in uplands
 - Continuous and discontinuous permafrost
 - Peat-fill depression
 - Hummocky
 - Kimberlite and other mineral sources

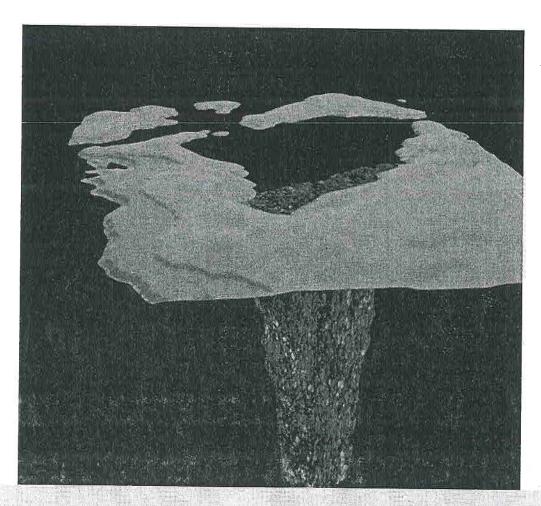


Drybones Bay and Wool Bay





• Example of kimberlite pipe





Biological landscape

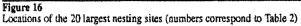
- Plants
 - Black spruce, jack pine, tamarack, creeping juniper, sedges, alder
 - Submerged macrophytes
 - Common and rare medicinal plants and berries

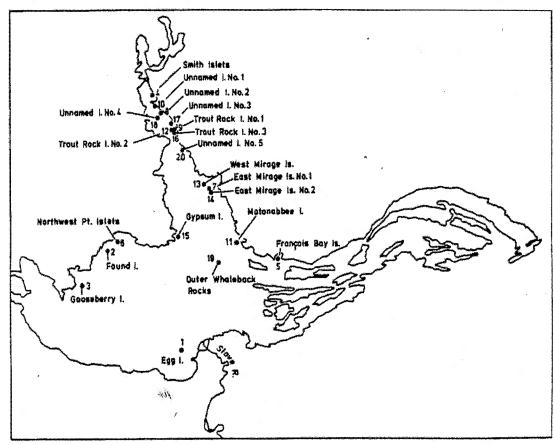
Animals

- Caribou Bathurst herd
- Moose
- Furbearers lynx, mink,
- Colonial waterbirds, warblers, raptors, etc.
- Fish 25 species including white fish, lake trout, northern pike, walleye, burbot



Colonial waterbird nesting sites

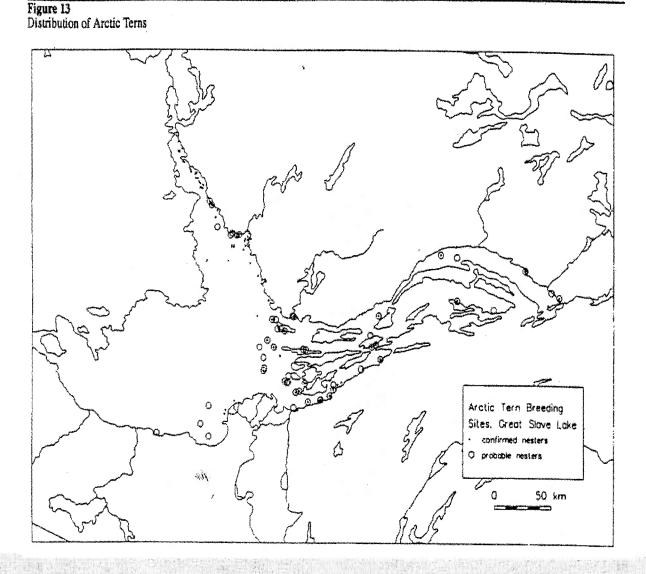






Arctic Tern Breeding sites







- Cultural landscape pre-contact to 1867
 - Dene have been inhabiting the area since before first contact
 - Rich in resources as shown by use: hunting (caribou, moose), fishing, trapping (furbearers) and medicinal plants and berry picking
 - Traditional lifestyle remained virtually intact for the Yellowknives, Dogrib and Metis but trade for goods increasing
 - Non-aboriginal population small and usually localized to forts or expeditions (i.e., search for Franklin, old Fort Providence (1790-1821), missionaries)



• Heritage resources (summer 2003)

Jackfish Cove	3	• 1 cabin site				
		l grave site				
		• 1 tent site				
Moose Bay	3	1 sunken boat site				
-		1 tent ring site				
		1 commercial fishing camp site				
Drybones Bay	35	7 cabin sites (3 old, 4 modern)				
, , , ,		4 camp sites (2 old, 2 modern)				
		1 caim site				
		1 possible canoe manufacturing site (canoe weights?)				
		2 cemetery sites				
		1 clay chimney site / mission site?				
		1 commercial fishing camp?				
		• 1 cross site?				
		• 1 drill site				
		1 hide-drying/stretching site				
		• 1 quarry site				
		1				
		- 1				
		• 1 quarry and work stations				
		• 6 tent sites (some with other boulder features)				
		1 tent site and survey marker				
		3 tent and quarry site (some with other boulder features)				
		I canoe building site and tent site				
		1 boulder alignment site (possibly toboggan or support for				
Burnt Island		hunting blinds)				
Burnt Island	5	• 4 tent sites				
		1 Exploration camp (east of Burnt Island)				
Cabin Islands	5	1 modern cabin site				
		1 cernetery site				
		1 boulder feature site (possibly tent outline or moose hide-				
		stretching circles)				
		1 village site (several cabins)				
		1 isolated find: white quartz scraper				
North of	3	• 1 cabin site (3 cabins)				
Matonabbee Point		1 cabin and tent site (1 cabin, 3 tent outlines)				
		1 tent site				
Old Fort	3	1 grave site				
Providence		2 canoe building sites? (one is possibly tent site)				
Wool Bay	11	1 tool-making site				
		1 cance building site				
		1 prospector's cairn and work areas				
		1 mission site				
		1 cemetery site				
	Air	6 tent sites				
Total	68 sites1					
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- Cultural landscape: 1867 present
 - Increasing missionary presence
 - Increased reliance on trade goods
 - Introduction of mission schools
 - Oil and gas discovery; gold discovery
 - Signing of treaties
 - Increase in regional population, particularly non-aboriginal
 - Establishment of permanent communities (e.g., Yellowknife)
 - Less living on the land in-migration to communities
 - Decrease of aboriginal language use
 - 50:50 aboriginal:non-aboriginal population



• Cultural landscape: present

Land and water activity (land	Number	Land and water activity	Number
use permits - active or expired)	or Noted	(surface disposition)	
Quarry	1	Cottages	2
Exploration (Land use applications)	9	Trapping cabins	1
Exploration (completed)	6	Commercial Fish Plants	2
Access trail	1	Navigational Aids	2
Other activities (not necessarily requiring licence, permit or authorization)		Values-at-risk (unregistered cabins)	N/A
Cutlines (exploration)	Yes		
Camping - recreational/ traditional	Yes	,	
Fishing - recreational/ traditional	Yes		
Hunting - recreational/ traditional	Yes		
Trapping - recreational/ traditional	Yes		
Berry picking - recreational/ traditional	Yes		

Current status of the VECs

- Caribou numbers are declining (revision based on RWED Bathurst Caribou survey 2003)
- No information on moose numbers. Assumed stable.
- No information on furbearer numbers.
 Assumed stable.
- Waterfowl numbers stable.
- No information on fish populations or habitat needs, but numbers assumed stable.
- No detailed information on plants. YKDFN undertook berry and medicinal plant survey.
- The NSMA have also undertaken preliminary traditional land use surveys of the area.
- Limited information on heritage resources.
 Restricted to shoreline.
- No information on spiritual resources available.



- Development Assessment Report(s)
 - Potential changes that could result from the proposed developments
 - Changes similar to the changes that have already taken place (i.e., habitat alteration, temporary disturbance to wildlife, temporary changes to water quality)
 - Possible interference with archaeological resources
 - Potential cumulative effects of these changes may relate to cultural landscape effects



- Development Assessment Report(s)
 - Results of developer proposals and CES while preliminary, indicate further incremental change to the current landscape
 - Still required
 - confirmation of cutlines
 - confirmation of operating season
 - · confirmation of final project descriptions
 - mapping of other land use information
 - Concern about full mine development if exploration proves viable



- Challenges/ To Dos
 - Incomplete information on the VECs
 - Archaeological survey incomplete.
 Work undertaken this summer
 indicates need for more
 archaeological research.
 - Moose and furbearer surveys from this summer need to be added to these results.
 - Interpret the results of the Bathurst caribou survey and the incremental changes to caribou habitat.
 - Spiritual resource survey needs to be undertaken.



- Challenges/ To Dos
 - Defining the limits of acceptable change to a cultural landscape and to cultural resources (Table 17)
 - Managing impacts to the cultural landscape and cultural resources (e.g., regional management plans, protected areas, zones of restriction around archaeological resources)
 - Implement regional level solutions through a project specific process, in the absence of regional programs (i.e., land use plans)

